ANSI STANDARDS ACTION

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American National Standards

Call for comment on proposals listed

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section(s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

Ordering Instructions for "Call-for-Comment" Listings

1. **Order from the organization indicated for the specific proposal.**
2. **Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.**
3. **Include remittance with all orders.**
4. **BSR proposals will not be available after the deadline of call for comment.**

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

ISSN 0038-9633

Comment Deadline: August 26, 2018

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

Revision

BSR/ASSE 1055-201x, Performance Requirements for Chemical Dispensing Systems with Integral Backflow Protection (revision of ANSI/ASSE 1055-2016)

Chemical dispensing systems (referred to in this standard as the “device”) provide a means of mixing potable water with chemicals to provide the user with a chemical solution that is ready for use. This standard applies to those devices classified as chemical dispensing systems having integral backflow protection.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Conrad Jahrling, staffengineer@asse-plumbing.org. Please state "PR1055" in the email subject.

NSF (NSF International)

Revision

BSR/NSF 58-201x (i82r1), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2017)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of reverse-osmosis drinking water treatment systems. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to system owners.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: mleslie@nsf.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 3003-201X, Standard for Safety for Distributed Generation Cables (Proposal dated 7/27/18) (new standard)

These requirements cover multi-conductor, nonintegrally jacketed, distributed generation (DG) cable. The cable is intended for use with specific distributed generation equipment/devices such as photovoltaic modules, inverters, and solar trackers. DG Cable is suitable for use between cable trays and utilization equipment. These cables are constructed with or without: One bare or one or more insulated grounding conductor(s) and/or one or more twisted pairs used for signal or communication, all under an overall jacket. The installation of this distributed generation cable is intended to be in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, in addition to any applicable building codes. The cable may be installed in cable trays, in raceways, and where supported in outdoor locations by a messenger wire.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Linda Phinney, (510) 319-4297, Linda.L.Phinney@ul.com

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 5500-201x, Standard for Safety for Remote Software Updates (new standard)

This standard covers remote software updates, taking into account the manufacturer's recommended process. It is limited to software elements having an influence on safety and on compliance with the particular end-product safety standard.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Megan Monsen, (847) 664-1292, megan.monsen@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 110-201x, Standard for Sustainability for Mobile Phones (revision of ANSI/UL 110-2017)

Proposals including editorial changes, clarifications, non-controversial proposals, and proposals with strong support from the STP; substitutions assessment; restriction of phthalates, ease of disassembling mobile phone, and proposed change in points criteria for environmentally preferable packaging.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Barbara Davis, (510) 319-4233, Barbara.J.Davis@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1088-201x, Standard for Safety for For Temporary Lighting Strings (revision of ANSI/UL 1088-2015)

This proposal for UL 1088 covers: (1) Exception to bonding of metallic lamp guard.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Wilbert Fletcher, (919) 954-9133, Wilbert.fletcher@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1989-201x, Standard for Safety for Standby Batteries (revision of ANSI/UL 1989-2013)

(1) Revision of 1.1 to clarify what types of batteries are covered by the standard; (2) Revision of 1.3 to clarify that lithium batteries are excluded; (3) Revision of terminology used in 4.2 and 4.3 to clarify that the standard covers lead acid and similar batteries; (4) Revision of flame arrestor tests in 7.3.2, 7.5.2, and 7.6.1.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Megan Van Heirseele, (847) 664-2881, Megan.M.VanHeirseele@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 2225-201X, Standard for Safety for Cables and Cable-Fittings for Use in Hazardous (Classified) Locations (Proposal dated 07-27-18) (revision of ANSI/UL 2225-2017)

This recirculation proposal provides revisions to the UL 2225 proposal dated March 30, 2018.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com

Comment Deadline: September 10, 2018

ASC X9 (Accredited Standards Committee X9, Incorporated)

New Standard

BSR X9.124-1-201x, Symmetric Key Cryptography for the Financial Services Industry Format Preserving Encryption - Part 1: Definitions and Model (new standard)

Format Preserving Encryption (FPE) techniques encrypt structured data, like payment-card Primary Account Numbers or Social Security Numbers, so that the enciphered data has the same format as the plaintext data. This allows encrypted data to be stored and transmitted by the same programs and databases that handled plaintext data without modification. For example, when encrypting a credit card PAN with a traditional AES algorithm, the enciphered data will be from 16 to 64 bytes of binary data. In contrast, under an FPE technique, the enciphered data will be of the same length and use the same alphabet as the input data. This preservation technique still allows for the same security guarantees as the base cipher, but requires multiple instantiations of the cipher, so is slower than traditional encryption. The proposed standard will describe the base mathematical technique required to achieve secure FPE, and also a set of formats for the encryption of payment-card data, including formats that retain various parts of the card data in plaintext format to allow critical functions like card routing and receipt printing. The intention is for the standard to describe the techniques to the point that other X9 work can directly use this tool in standards that describe card data protection protocols, such as the work in X9.119.

Single copy price: $140.00

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

Send comments (with copy to psa@ansi.org) to: Same

ASSP (ASC A10) (American Society of Safety Professionals)

Reaffirmation

BSR/ASSE A10.40-2007 (R201x), Reduction of Musculoskeletal Problems in Construction (reaffirmation of ANSI/ASSE A10.40-2007 (R2013))

This standard applies to construction work where there may be risk factors, which could lead to musculoskeletal problems for construction workers. This standard does not apply to office or administrative work performed by construction companies.

Single copy price: $110.00

Obtain an electronic copy from: TFisher@ASSE.Org

Order from: Tim Fisher, (847) 768-3411, TFisher@ASSE.Org

Send comments (with copy to psa@ansi.org) to: Same

CSA (CSA Group)

New National Adoption

BSR/CSA FC-1-2014 (R201x), Fuel Cell Technologies - Part 3-100: Stationary Fuel Cell Power Systems - Safety (reaffirm a national adoption ANSI/CSA FC-1-2014)

This part of FC 1 applies to stationary packaged, self-contained fuel cell power systems or fuel cell power systems comprised of factory-matched packages of integrated systems which generate electricity through electrochemical reactions. This standard applies to systems:

– intended for electrical connection to mains direct, or with a transfer switch, or to a standalone power distribution system;

– intended to provide AC or DC power;

– with or without the ability to recover useful heat; and

– intended for operation on the following input fuels (a) natural gas and other methane rich gases derived from renewable (biomass) or fossil fuel sources, for example, landfill gas, digester gas, coal mine gas; (b) fuels derived from oil refining, for example, diesel, gasoline, kerosene, liquefied petroleum gases such as propane and butane; (c) alcohols, esters, ethers, aldehydes, ketones, Fischer-Tropsch liquids and other suitable hydrogen-rich organic compounds derived from renewable (biomass) or fossil fuel sources, for example, methanol, ethanol, di-methyl ether, biodiesel; (d) hydrogen, gaseous mixtures containing hydrogen gas, for example, synthesis gas, town gas.

This standard does not cover:

– micro fuel cell power systems;

– portable fuel cell power systems; and

– propulsion fuel cell power systems.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with copy to psa@ansi.org) to: david.zimmerman@csagroup.org

CSA (CSA Group)

New Standard

BSR/CSA C22.2 No. 339-201x, Hand-held motor-operated electric tools - Safety - Particular requirements for chain beam saws (new standard)

This Standard is to be used in conjunction with the latest edition of CAN/CSA-C22.2 No. 62841-1/UL 62841-1.

NOTE: When “Part 1” is mentioned in this Standard, it refers to CAN/CSA-C22.2 No. 62841-1 (first edition)/UL 62841-1 (first edition).

This Standard contains particular requirements that supplement or modify the corresponding clauses in CAN/CSA-C22.2 No. 62841-1 (first edition)/UL 62841-1 (first edition). When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. When this Standard states “addition”, “modification”, or “replacement”, the relevant text in Part 1 is to be adapted accordingly. This Standard applies to chain beam saws for cutting wood or similar material and designed for use by one person. This Standard does not cover chain beam saws that can be installed with more than one guide bar length. This Standard does not cover chain beam saw attachments that convert a circular saw or a chain saw into a chain beam saw. This Standard does not cover:

(a) chain saws as defined in CAN/CSA-C22.2 No. 60745-2-13/UL 60745-2-13;

(b) chain saws for tree service as defined in CSA Z62.1; or

(c) pole cutters and pruners as defined in CSA C22.2 No. 147 or UL 82.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with copy to psa@ansi.org) to: david.zimmerman@csagroup.org

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

New Standard

BSR/ASSE 1082-201x, Performance Requirements for Water Heaters with Integral Temperature Control Devices for Hot Water Distribution Systems (new standard)

This standard is for water heaters with defined setpoint controls under various steady-state flow conditions that control the outlet temperature to specific limits and are installed within a hot water distribution system. These devices are not intended for end-use applications without downstream point-of-use control valves compliant to ASSE 1016/ASME A112.1016/CSA B125.16, ASSE 1069, ASSE 1070/ASME A112.1070/CSA B125.70, or other appropriate standards. The device shall consist of a heat exchanger, a cold-water inlet connection, a hot-water outlet connection, and a means for precisely governing the outlet temperature.

Single copy price: Free

Obtain an electronic copy from: http://asse-plumbing.org/pr/1082-2018-PR.pdf or email conrad.jahrling@asse-plumbing.org. When emailing, please have "PR1082" in the subject line.

Send comments (with copy to psa@ansi.org) to: conrad.jahrling@asse-plumbing.org

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

New Standard

BSR/ASSE 1087-201x, Performance Requirements for Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water (new standard)

Commercial water treatment equipment is used in point-of-entry and point-of-use applications connected to building plumbing to improve the water-quality characteristics of potable water. This standard includes testing requirements for components and complete systems. Electrical compliance is not covered by the standard. Plumbed water treatment units include any device or component, point-of-entry and point-of-use that is used in building to improve the quality of the water. This standard covers all water-treatment products that are connected to the building's plumbing system for potable water. This standard is not intended to cover water-treatment products used for process water or wastewater applications. Examples of water-treatment equipment include: Deionization, Filters, Softeners, Physical Devices, Reverse Osmosis, UV, Ozone, and Distillation. Tests verifying claims regarding changes to water chemistry, microbiology, and aesthetics (i.e., smell, taste, appearance, etc.) are not included in this standard. Devices may claim such performance via other standards or test protocols.

Single copy price: Free

Obtain an electronic copy from: http://asse-plumbing.org/pr/1087-2018-PR.pdf

Send comments (with copy to psa@ansi.org) to: Conrad Jahrling, staffengineer@asse-plumbing.com , Please state "PR1087" in the email subject.

ISA (International Society of Automation)

New National Adoption

BSR/ISA 62453-1 (103.00.01)-201x, Field device tool (FDT) interface specification - Part 1: Overview and guidance (national adoption of IEC 62453-1 with modifications and revision of ANSI/ISA 62453-1 (103.00.01)-2011)

This part presents an overview and guidance for this series. It explains the structure and content of the series; provides explanations of some aspects of the ISA 62453 series that are common to many of the parts of the series; describes the relationship to some other standards.

Single copy price: $294.00

Obtain an electronic copy from: rbreiner@isa.org

Order from: Rob Breiner, (919) 990-9257, rbreiner@isa.org

Send comments (with copy to psa@ansi.org) to: Same

ISA (International Society of Automation)

New National Adoption

BSR/ISA 62453-2 (103.00.02)-201x, Field device tool (FDT) interface specification - Part 2: Concepts and detailed description (national adoption of IEC 62453-2 with modifications and revision of ANSI/ISA 62453-2 (103.00.02)-2011)

This part explains the common principles of the field device tool concept. These principles can be used in various industrial applications such as engineering systems, configuration programs, and monitoring and diagnostic applications. This standard specifies the general objects, general-object behavior, and general-object interactions that provide the base of FDT.

Single copy price: $350.00

Obtain an electronic copy from: rbreiner@isa.org

Order from: Rob Breiner, (919) 990-9257, rbreiner@isa.org

Send comments (with copy to psa@ansi.org) to: Same

ISA (International Society of Automation)

New National Adoption

BSR/ISA 62453-301 (103.00.03)-201x, Field device tool (FDT) interface specification - Part 301: Communication profile integration - IEC 61784 CPF 1 (national adoption of IEC 62453-301 with modifications and revision of ANSI/ISA 62453-301 (103.00.03)-2011)

This standard provides information for integrating the FOUNDATION™ Fieldbus (FF) protocol into the FDT standard (ISA 62453-2). It describes communication definitions, protocol specific extensions and the means for block (transducer, resource or function blocks) representation. The new protocol specific definitions are based on FF-specifications for H1 and HSE protocols. These also contain information that is needed by systems to configure FF devices. The scope is limited to FF devices and system-specific definitions.

Single copy price: $450.00

Obtain an electronic copy from: rbreiner@isa.org

Order from: Rob Breiner, (919) 990-9257, rbreiner@isa.org

Send comments (with copy to psa@ansi.org) to: Same

ISA (International Society of Automation)

New National Adoption

BSR/ISA 62453-302 (103.00.04)-201x, Field device tool (FDT) interface specification - Part 302: Communication profile integration - IEC 61784 CPF 2 (national adoption of IEC 62453-302 with modifications and revision of ANSI/ISA 62453-302 (103.00.04)-2010)

This part of the ISA 62453 series provides information for integrating CIP™ technology into the FDT interface specification (ISA-62453 2). This part of ISA-62453 specifies communication and other services. This specification neither contains the FDT specification nor modifies it.

Single copy price: $200.00

Obtain an electronic copy from: rbreiner@isa.org

Order from: Rob Breiner, (919) 990-9257, rbreiner@isa.org

Send comments (with copy to psa@ansi.org) to: Same

Comment Deadline: September 10, 2018

NFPA (National Fire Protection Association)

The disposition of all comments received will now be published in the Second Draft Report located on the document's information page under the "Next Edition" tab. The document's specific URL, www.nfpa.org/doc# (for example www.nfpa.org/101), can easily access the document's information page. These documents are for the NFPA 2018 Fall Revision Cycle. The proposed NFPA documents addressed in the First Draft Report and in the follow-up Second Draft Report will be presented for action at the NFPA June 2019 Association Technical Meeting to be held June 17-20, 2019 San Antonio Texas when a proper Notice of Intent to Make a Motion (NITMAM) has been submitted to the NFPA by the deadline of August 30, 2018. NITMAMs submitted on Public Comments (PC) can only be submitted by the original submitter of the PC or their duly represented Designated Representative. NITMAMs can be made by anyone if the NITMAM is on a Committee Comment, Second Revision, or Second Correlating Revision or in the case of a new standard, a NITMAM to Return the Entire NFPA Standard.

Additional information on NITMAMs and authorized submitters can be found in the Regulations Governing the Development of NFPA Standards. Instructions on how to submit NITMAMs electronically are located in the Document's Second Draft Report. Documents that receive no motions will not be presented at the meeting and instead will be forwarded directly to the Standards Council for action on issuance. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (www.nfpa.org) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of

The National Fire Protection Association announced the availability of its First Draft Report for concurrent review by NFPA and ANSI.

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 45-201x, Standard on Fire Protection for Laboratories Using Chemicals (revision of ANSI/NFPA 45-2015)

This standard shall apply to laboratory buildings, laboratory units, and laboratory work areas whether located above or below grade in which chemicals, as defined, are handled or stored.

Obtain an electronic copy from: www.nfpa.org/45next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 67-201x, Guideline on Explosion Protection for Gaseous Mixtures in Pipe Systems (revision of ANSI/NFPA 67-2016)

This guide applies to the design, installation, and operation of piping systems containing flammable gases where there is a potential for ignition. This guide addresses protection methods for use where the pipe explosion risk is due to either a deflagration or a detonation.

Obtain an electronic copy from: www.nfpa.org/67next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 70B-201x, Recommended Practice for Electrical Equipment Maintenance (revision of ANSI/NFPA 70B-2016)

This recommended practice applies to preventive maintenance for electrical, electronic, and communications systems and equipment and is not intended to duplicate or supersede instructions that manufacturers normally provide. Systems and equipment covered are typical of those installed in industrial plants, institutional and commercial buildings, and large multifamily residential complexes. Consumer appliances and equipment intended primarily for use in the home are not included.

Obtain an electronic copy from: www.nfpa.org/70Bnext

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 85-201x, Boiler and Combustion Systems Hazards Code (revision of ANSI/NFPA 85-2015)

This code applies to the following:

- This code covers design, installation, operation, maintenance, and training.

- This code covers strength of the structure, operation and maintenance procedures, combustion and draft control equipment, safety interlocks, alarms, trips, and other related controls that are essential to safe equipment operation.

- This code does not cover process heaters used in chemical and petroleum manufacture in which steam generation is incidental to the operation of a processing system.

- Chapter 5 covers single-burner boilers that fire the following fuels: (1) Fuel gas as defined in 3.3.74; (2) Other gas having a calorific value and characteristics similar to natural gas.

- Chapter 6 covers multiple burner boilers firing one or more of the following: (1) Fuel gas, as defined in 3.3.74; (2) Fuel oil, as defined in 3.3.73.3; (3) Pulverized coal, as defined in 3.3.73.2.1; (4) Simultaneous firing of more than one of the fuels stated in 1.1.5(1) through 1.1.5(3).

- Chapter 7 covers atmospheric fluidized bed boilers.

- Chapter 8 covers HRSG systems and other combustion turbine exhaust systems.

- Chapter 9 covers pulverized fuel systems, beginning with the raw fuel bunker, which is upstream of the pulverizer and is the point at which primary air enters the pulverizing system, and terminating at the point where pressure can be relieved by fuel being burned or collected in a device that is built in accordance with this code. The pulverized fuel system shall include the primary air ducts, which are upstream of the pulverizer, to a point where pressure can be relieved.

- Chapter 10 covers boilers that use a stoker to fire the following fuels: (1) Coal; (2) Wood; (3) Refuse-derived fuel (RDF); (4) Municipal solid waste (MSW); (5) Other solid fuels. Where solid fuel is fired simultaneously with other fuels (e.g., a solid fuel stoker fired in combination with fuel gas, fuel oil, or pulverized auxiliary fuel), additional controls and interlocks shall include those covered in Chapters 5, 6, and 9. Exception No. 1: The purge requirements of Chapters 5 and 6 shall not be required when the stoker is firing and the boiler is on-line. In those cases, if no cooling air is being provided to the auxiliary burners, a purge of their associated air supply ducts shall be provided. Exception No. 2: Where fuel oil or fuel gas is fired in a supervised manual system in accordance with Chapter 5, the excessive steam pressure interlock shall not be required.

Obtain an electronic copy from: www.nfpa.org/85next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 253-201x, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source (revision of ANSI/NFPA 253-2015)

This fire test response standard describes a procedure for measuring critical radiant flux behavior of horizontally mounted floor covering systems exposed to a flaming ignition source in a graded, radiant heat energy environment within a test chamber. This fire test response standard measures the critical radiant flux at flameout and provides a basis for estimating one aspect of fire exposure behavior for floor-covering systems. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames, hot gases, or both, from a fully developed fire in an adjacent room or compartment.

Obtain an electronic copy from: www.nfpa.org/253next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 262-201x, Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces (revision of ANSI/NFPA 262-2015)

This standard shall prescribe the methodology to measure flame travel distance and optical density of smoke for insulated, jacketed, or both, electrical wires and cables and optical fiber cables that are to be installed in plenums and other spaces used to transport environmental air without being enclosed in raceways. This test method shall not provide information on the fire performance of insulating materials contained in electrical or optical cables in fire conditions other than the ones specifically used in Section 6.6 of this standard, nor shall it measure the contribution of the cables to a developing fire condition. Although this test uses equipment similar to that used in ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, or in ANSI/UL 723, Test for Surface Burning Characteristics of Building Materials, sufficient changes have been made to the chamber so that a test conducted in the apparatus used for ASTM E 84 or ANSI/UL 723 shall not be considered identical or productive of comparable results. Because this standard does not purport to address all of the safety problems associated with its use, it shall be the responsibility of the user of this standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use.

Obtain an electronic copy from: www.nfpa.org/262next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 265-201x, Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls (revision of ANSI/NFPA 265-2015)

This standard describes a test method for determining the contribution of textile or expanded vinyl wall coverings to room fire growth during specified fire exposure conditions. This test method shall be used to evaluate the flammability characteristics of textile or expanded vinyl wall coverings where such materials constitute the exposed interior surfaces of buildings and demountable, relocatable, full height partitions used in open building interiors. This test method shall not be used for the evaluation of floor or ceiling finishes. This test method shall not apply to fabric-covered, lower-than-ceiling-height, freestanding, or prefabricated panel furniture systems.

Obtain an electronic copy from: www.nfpa.org/265next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 276-201x, Standard Method of Fire Test for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components (revision of ANSI/NFPA 276-2015)

This standard describes a method for determining the heat release rate from below the deck of roofing assemblies that have combustible above-deck roofing components when the assemblies are exposed to a fire from below the roof deck. The performance of the above-deck roofing assembly is evaluated by determining the heat release rate below the deck of the roof test specimen. This test method is based on the substitution method for measuring the heat release rate by using an auxiliary fuel (propane) to provide the surrogate heat release rate.

Obtain an electronic copy from: www.nfpa.org/276next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 286-201x, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth (revision of ANSI/NFPA 286-2015)

This standard describes a method for determining the contribution of interior finish materials to room fire growth during specified fire-exposure conditions. This method is intended for the evaluation of the flammability characteristics of wall and ceiling interior finish, where such materials constitute the exposed interior surfaces of buildings. This fire test method is not intended for the evaluation of fire resistance of assemblies, nor is it intended for the evaluation of the effect of fires that originate within a wall assembly. This standard specifies three types of specimen mounting, depending on the application of the interior finish material, as follows: (1) Three walls (for interior finish to be used on walls only); (2) Three walls and the ceiling (for interior finish to be used on walls and ceilings); and (3) The ceiling alone (for interior finish to be used on ceilings only).

Obtain an electronic copy from: www.nfpa.org/286next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 350-201x, Guide for Safe Confined Space Entry and Work (revision of ANSI/NFPA 350-2016)

This guide is intended to protect workers who enter into confined spaces for inspection or testing or to perform associated work from death and from life-threatening and other injuries or illnesses and to protect facilities, equipment, non-confined space personnel, and the public from injuries associated with confined-space incidents.

Obtain an electronic copy from: www.nfpa.org/350next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 402-201x, Guide for Aircraft Rescue and Fire-Fighting Operations (revision of ANSI/NFPA 402-2013)

This guide provides information relative to aircraft-rescue and fire-fighting operations and procedures for airport and structural fire departments. Statistics indicate that approximately 80 percent of all major commercial aircraft accidents occur in the critical rescue and fire-fighting access area. This is the primary response area for airport-based ARFF services. Approximately 15 percent of the accidents occur in the approach areas. In such instances, the community/mutual services could be the prime responders. Some airport fire departments have the total fire-prevention and fire-protection responsibility for the entire airport, including structural fire-fighting responsibilities in terminal buildings, aircraft hangars, airport hotels, cargo buildings, and other facilities. Procedures for these fire-prevention and -protection operations are not covered in this guide.

Obtain an electronic copy from: www.nfpa.org/402next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 701-201x, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films (revision of ANSI/NFPA 701-2015)

Test Method 1 shall apply to fabrics or other materials used in curtains, draperies, or other window treatments. Vinyl-coated fabric blackout linings shall be tested according to Test Method 2. Test Method 1 shall apply to single-layer fabrics and to multilayer curtain and drapery assemblies in which the layers are fastened together by sewing or other means. Vinyl-coated fabric blackout linings shall be tested according to Test Method 2. Test Method 1 shall apply to specimens having an areal density less than or equal to 700 g/m2 (21 oz/yd2), except where Test Method 2 is required to be used in Section 1.1.2.

Obtain an electronic copy from: www.nfpa.org/701next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 801-201x, Standard for Fire Protection for Facilities Handling Radioactive Materials (revision of ANSI/NFPA 801-2014)

This standard addresses fire-protection requirements intended to reduce the risk of fires and explosions at facilities handling radioactive materials. This standard shall not apply to commercial power-generating reactors that are covered by NFPA 804, Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants; NFPA 805, Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants; and NFPA 806, Performance-Based Standard for Fire Protection for Advanced Nuclear Reactor Electric Generating Plants Change Process.

Obtain an electronic copy from: www.nfpa.org/801next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 900-201x, Building Energy Code (revision of ANSI/NFPA 900-2016)

These regulations shall control the minimum energy-efficient requirements for the following: (1) The design, construction, reconstruction, alteration, repair, demolition, removal, inspection, issuance, and revocation of permits or licenses, installation of equipment related to energy conservation in all buildings and structures and parts thereof; (2) The rehabilitation and maintenance of construction related to energy efficiency in existing buildings; and (3) The standards or requirements for materials to be used in connection therewith.

Obtain an electronic copy from: www.nfpa.org/900next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 914-201x, Code for Fire Protection of Historic Structures (revision of ANSI/NFPA 914-2015)

This code describes principles and practices of fire safety for historic structures and for those who operate, use, or visit them. Collections within libraries, museums, and places of worship are not within the scope of this code.

Obtain an electronic copy from: www.nfpa.org/914next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 1963-201x, Standard for Fire Hose Connections (revision of ANSI/NFPA 1963-2014)

This standard gives the performance and requirements for new fire hose couplings and adapters with nominal sizes from 3/4 in. (19 mm) through 8 in. (200 mm) and the specifications for the screw thread connections on those couplings and adapters. This standard also gives the performance and requirements for the mating surfaces of non-threaded fire hose couplings and adapters with nominal sizes of 4 in. (100 mm) and 5 in. (125 mm).

Obtain an electronic copy from: www.nfpa.org/1963next

Send comments (with copy to psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 1975-201x, Standard on Emergency Services Work Clothing Elements (revision of ANSI/NFPA 1975-2014)

This standard shall specify requirements for the design, performance, testing, and certification of nonprimary protective work apparel and the individual garments comprising work apparel. Work apparel garments shall not include socks, dress uniforms, and specific types of undergarments including briefs, boxer shorts, boxer briefs, and bras. This standard shall also specify requirements for the thermal stability of textiles used in the construction of work apparel. This standard shall also specify optional requirements for flame resistance, odor resistance, water resistance, and insect repellancy where such options are specified or claimed to be used in construction of work apparel. This standard shall not specify requirements for clothing that is intended to provide primary protection from given hazard exposures. Certification of work apparel to the requirements of this standard shall not preclude certification to additional applicable standards for primary protective clothing where the clothing meets all requirements of each standard. This standard shall not be construed as addressing all of the safety concerns associated with the use of compliant work apparel garments for their personnel. It shall be the responsibility of the persons and organizations that use compliant work apparel garments to establish safety and health practices and determine the applicability of regulatory limitations prior to use. This standard shall not be construed as addressing all of the safety concerns, if any, associated with the use of this standard by testing facilities. It shall be the responsibility of the persons and organizations that use this standard to conduct testing of work apparel garments to establish safety and health practices and determine the applicability of regulatory limitations prior to using this standard for any designing, manufacturing, and testing. This standard shall not specify requirements for any accessories that could be attached to the certified product but are not necessary for the certified product to meet the requirements of this standard. Nothing in this standard shall restrict any jurisdiction or manufacturer from exceeding these minimum requirements.

Obtain an electronic copy from: www.nfpa.org/1975next

Send comments (with copy to psa@ansi.org) to: Same

NSF (NSF International)

New Standard

BSR/NSF 385-201x (i1r5), Disinfection Mechanics (new standard)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 L/day (200 gal/day) and 5678 L/day (1500 gal/day) or commercial wastewater treatment systems having a rated treatment capacity exceeding 5678 L/day (1500 gal/day). This also applies to devices intended to be used in water reclamation and reuse. Specific requirements exist for construction and testing of individual disinfection devices based on the specific technology used by the device. All Devices are required to be tested against the same influent challenge water and to produce the same effluent quality in accordance with 1.5. Devices shall be tested against the effluent requirements of this Standard unless the manufacturer requests certification under an effluent standard in NSF/ANSI 350 which is more stringent than this Standard.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/43715/385i1r5%20JC%20Memo%20&%20ballot.pdf

Order from: Jason Snider, (734) 418-6660, jsnider@nsf.org

Send comments (with copy to psa@ansi.org) to: Same

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 44-201x, Test Method for DC Loop Resistance (revision of ANSI/SCTE 44-2010)

This document is intended for use in determining the DC Loop Resistance of coaxial cables. Due to low resistances, a four-wire test method is used.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1773-201x, Standard for Safety for Termination Boxes (revision of ANSI/UL 1773-2016)

This is an updated version of a proposal to cover the addition of Compact Stranded AA-8000 Aluminum Alloy Conductors to Tables 9.1, 9.2, and 9.3 for minimum wire bending space at terminals. The initial version of this proposal was published by UL on May 4, 2018.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Order from: Comm2000, 151 Eastern Avenue, Bensenville, IL 60106 USA, 1-888-853-3503

Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

VC (ASC Z80) (The Vision Council)

New Standard

BSR Z80.35-201x, Extended Depth of Focus (EDF) Lenses (new standard)

This standard applies to intraocular lenses (IOLs) whose function is the correction of aphakia, with extended range of focus above a defined functional visual acuity threshold to provide useful distance and intermediate vision with monotonically decreasing visual acuity from the best distance focal point. This standard addresses specific requirements for Extended Depth of Focus Intraocular Lenses (EDF IOLs) that are not addressed in the normative references, and include vocabulary, optical properties and test methods, mechanical properties and test methods, labeling, biocompatibility, sterility, shelf-life and transport stability, and clinical investigations necessary for this type of device. As with any standard, alternative validated test methods may be used.

Single copy price: $75.00

Obtain an electronic copy from: ascz80@thevisioncouncil.org

Order from: Michele Stolberg, 585-387-9913, ascz80@thevisioncouncil.org

Send comments (with copy to psa@ansi.org) to: Same

VC (ASC Z80) (The Vision Council)

Reaffirmation

BSR Z80.7-2013 (R201x), Intraocular Lenses (reaffirmation of ANSI Z80.7-2013)

This standard applies to monofocal intraocular lenses (IOLs) whose primary indication is the correction of aphakia. This standard addresses the vocabulary, optical properties and test methods, mechanical properties and test methods, biocompatibility, sterility, shelf-life and transport stability, and clinical investigations necessary for this type of device.

Single copy price: $45.00

Obtain an electronic copy from: ascz80@thevisioncouncil.org

Order from: Michele Stolberg, 585-387-9913, ascz80@thevisioncouncil.org

Send comments (with copy to psa@ansi.org) to: Same

Comment Deadline: September 25, 2018

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B107.4-201x, Driving and Spindle Ends for Portable Hand, Impact, Air, and Electric Tools (Percussion Tools Excluded) (revision and redesignation of ANSI/ASME B107.4M-2005 (R2011))

This Standard applies to portable power tools for drilling, grinding, polishing, sawing, and driving threaded fasteners and hand tools for driving threaded fasteners.

Single copy price: Free

Obtain an electronic copy from: http://cstools.asme.org/publicreview

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Erika Lawson, (212) 591-8094, lawsone@asme.org

ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19144-2:2012 [201x], Geographic information - Classification systems - Part 2: Land Cover Meta Language (LCML) (reaffirm a national adoption INCITS/ISO 19144-2:2012 [2013])

Specifies a Land Cover Meta Language (LCML) expressed as a UML metamodel that allows different land-cover classification systems to be described based on the physiognomic aspects. Also specifies the detailed structure of a register for the extension of LCML but does not specify the maintenance of the register. Recognizes that there exist a number of land cover classification systems. It provides a common reference structure for the comparison and integration of data for any generic land-cover classification system, but does not intend to replace those classification systems.

Single copy price: $60.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19144-1:2009/COR 1:2012 [201x], Geographic information - Classification systems - Part 1: Classification system structure - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO 19144-1-2009/Cor 1-2012)

Technical Corrigendum 1 to ISO 19144-1:2009.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 962:1974 [R201x], Information Processing - Implementation of the 7-Bit Coded Character Set and its 7-Bit and 8-Bit Extensions on 9-Track 12,7 mm (0.5 in) Magnetic Tape (reaffirm a national adoption INCITS/ISO 962:1974 [R2013])

Specifies the representation of the 7-bit-code and its 7-bit and 8-bit extensions on an 9-track magnetic tape with a width of 12.7 mm (0.5 in).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 2033:1983 [R201x], Information Processing - Coding of Machine Readable Characters (MICR and OCR) (reaffirm a national adoption INCITS/ISO 2033:1983 [R2013])

Defines the coded representation of printed characters recognized by reading equipment. Includes the fonts E 13 B; CMC 7; OCR-A; OCR-B. Assigns bit-patterns to characters recognized by reading equipment. This information is then given to the recipient by different media and can be used by printing devices. Single-font reader and multiple-font reader are considered as applications.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 3275:1974 [R201x], Information processing - Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 3,81 mm magnetic cassette for data interchange (reaffirm a national adoption INCITS/ISO 3275:1974 [R2013])

Defines the implementation of the 7-bit coded character set and of its 7-bit and 8-bit extentions for the interchange of data on 3.81 mm magnetic tape cassette. References: ISO 646; 2022; 3407.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 6586:1980 [R201x], Data processing - Implementation of the ISO 7-bit and 8-bit coded character sets on punched cards (reaffirm a national adoption INCITS/ISO 6586:1980 [R2013])

Defines implementation of ISO 7-bit and 8-bit coded character sets on punched cards as well as the representation of 7-bit and 8-bit combinations on 12-row punched cards. This representation is derived from, and compatible with, the Hollorith Code. Ensures wide compatibility with existing punched card files. Intended for general interchange of information among data processing systems.

Single copy price: $60.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 6709:2008 [R201x], Standard representation of geographic point location by coordinates (reaffirm a national adoption INCITS/ISO 6709:2008 [R2013])

Applicable to the interchange of coordinates describing geographic point location. It specifies the representation of coordinates, including latitude and longitude, to be used in data interchange. It additionally specifies representation of horizontal point location using coordinate types other than latitude and longitude. It also specifies the representation of height and depth that can be associated with horizontal coordinates. Representation includes units of measure and coordinate order. Not applicable to the representation of information held within computer memories during processing and in their use in registers of geodetic codes and parameters. Supports point location representation through the eXtensible Markup Language (XML) and, recognizing the need for compatibility with the previous version, allows for the use of a single alphanumeric string to describe point locations. For computer data interchange of latitude and longitude, generally suggests that decimal degrees be used. It allows the use of sexagesimal notations: degrees, minutes, and decimal minutes or degrees, minutes, seconds, and decimal seconds. Does not require special internal procedures, file-organization techniques, storage medium, languages, etc., to be used in its implementation.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 9036:1987 [R201x], Information processing - Arabic 7-bit coded character set for information interchange (reaffirm a national adoption INCITS/ISO 9036:1987 [R2013])

A set of mandatory 120 characters is described with the coded representation. This set is intended for interchange of information using Arabic language and includes control characters for code extensions. Procedures for using these control charactres are specified in ISO 2022. References: ISO 646; ISO 2022; Arab Standard ASMO 449.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19107:2003 [R201x], Geographic information - Spatial schema (reaffirm a national adoption INCITS/ISO 19107:2003 [R2013])

Specifies conceptual schemas for describing the spatial characteristics of geographic features, and a set of spatial operations consistent with these schemas. It treats vector geometry and topology up to three dimensions. It defines standard spatial operations for use in access, query, management, processing, and data exchange of geographic information for spatial (geometric and topological) objects of up to three topological dimensions embedded in coordinate spaces of up to three axes.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19108:2002 [R201x], Geographic information - Temporal schema (reaffirm a national adoption INCITS/ISO 19108:2002 [R2013])

Defines concepts for describing temporal characteristics of geographic information. It depends upon existing information technology standards for the interchange of temporal information. It provides a basis for defining temporal feature attributes, feature operations, and feature associations, and for defining the temporal aspects of metadata about geographic information. Since this International Standard is concerned with the temporal characteristics of geographic information as they are abstracted from the real world, it emphasizes valid time rather than transaction time.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19117:2012 [R201x], Geographic information -- Portrayal (reaffirm a national adoption INCITS/ISO 19117:2012 [R2013])

Specifies a conceptual schema for describing symbols, portrayal functions that map geospatial features to symbols, and the collection of symbols and portrayal functions into portrayal catalogues. This conceptual schema can be used in the design of portrayal systems. It allows feature data to be separate from portrayal data, permitting data to be portrayed in a dataset-independent manner.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19132:2007 [R201x], Geographic information - Location-based services - Reference model (reaffirm a national adoption INCITS/ISO 19132:2007 [R2013])

ISO 19132:2007 defines a reference model and a conceptual framework for location-based services (LBS), and describes the basic principles by which LBS applications may interoperate. This framework references or contains an ontology, a taxonomy, a set of design patterns and a core set of LBS service abstract specifications in UML. ISO 19132:2007 further specifies the framework's relationship to other frameworks, applications, and services for geographic information and to client applications.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO 19141:2008 [R201x], Geographic information - Schema for moving features (reaffirm a national adoption INCITS/ISO 19141:2008 [R2013])

Defines a method to describe the geometry of a feature that moves as a rigid body. This standard does not address other types of change to the feature. Examples of changes that are not addressed include the following: The deformation of features, the succession of either features or their associations, and the change of non-spatial attributes of features. The feature's geometric representation cannot be embedded in a geometric complex that contains the geometric representations of other features, since this would require the other features' representations to be updated as the feature moves. Because this standard is concerned with the geometric description of feature movement, it does not specify a mechanism for describing feature motion in terms of geographic identifiers. This is done, in part, in ISO 19133.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 1539-1:2010 [R201x], Information technology - Programming languages - Fortran - Part 1: Base language (reaffirm a national adoption INCITS/ISO/IEC 1539-1:2010 [2013])

Specifies the form and establishes the interpretation of programs expressed in the base Fortran language. Its purpose is to promote portability, reliability, maintainability, and efficient execution of Fortran programs for use on a variety of computing systems. Specifies the forms that a program written in the Fortran language may take, the rules for interpreting the meaning of a program and its data, the form of the input data to be processed by such a program, and the form of the output data resulting from the use of such a program. Except where stated otherwise, requirements and prohibitions specified apply to programs rather than processors.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7501-2:1997 [R201x], Identification Cards - Machine Readable Travel Documents - Part 2: Machine Readable Visa (reaffirm a national adoption INCITS/ISO/IEC 7501-2:1997 [R2013])

Specifies the form and provides guidance on the construction of machine-readable visas, in particular in relation to the sections of the document containing details of the holder in a form which is both visible and machine readable.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7812-2:2007 [R201x], Identification Cards - Identification of Issuers - Part 2: Application and Registration Procedures (reaffirm a national adoption INCITS/ISO/IEC 7812-2:2007 [R2013])

Describes the application and registration procedures for numbers issued in accordance with ISO/IEC 7812-1. ISO/IEC 7812-1 specifies the numbering system for the identification of issuers of identification cards used in international and/or inter-industry interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7816-2:2007 [R201x], Identification cards - Integrated circuit cards - Part 2: Cards with contacts - Dimensions and location of the contacts (reaffirm a national adoption INCITS/ISO/IEC 7816-2:2007 [R2013])

Specifies the dimensions, locations and assignment for each of the contacts on integrated circuit(s) cards of an ID-1 card type. To be used in conjunction with ISO/IEC 7816-1.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7816-12:2005 [R201x], Identification cards - Integrated circuit cards - Part 12: Cards with contacts - USB electrical interface and operating procedures (reaffirm a national adoption INCITS/ISO/IEC 7816-12:2005 [R2013])

Specifies the operating conditions of an integrated circuit card that provides a USB interface. An integrated circuit card with a USB interface is named USB-ICC. Specifies the electrical conditions when a USB-ICC is operated by an interface device for those contact fields that are not used, when the USB interface is applied; the USB standard descriptors and the USB-ICC class specific descriptor; the data transfer between host and USB-ICC using bulk transfers or control transfers; the control transfers which allow two different protocols named version A and version B; the (optional) interrupt transfers to indicate asynchronous events; and status and error conditions.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7816-13:2007 [R201x], Identification cards - Integrated circuit cards - Part 13: Commands for application management in multi application environment (reaffirm a national adoption INCITS/ISO/IEC 7816-13:2007 [R2013])

Specifies commands for application management in a multi-application environment. These commands cover the entire lifecycle of applications in a multi-application integrated circuit card, and the commands can be used before and after the card is issued to the cardholder. ISO/IEC 7816 -13:2007 does not cover the implementation within the card and/or the outside world.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-4:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 4: Latin alphabet No. 4 (reaffirm a national adoption INCITS/ISO/IEC 8859-4:1998 [R2013])

Specifies a set of 191 coded graphic characters identified as Latin alphabet No. 4. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: Danish, English, Estonian, Finnish, German, Greenlandic, Latin, Latvian, Lithuanian, Norwegian, Sámi (but see Annex A.1, Notes), Slovene, and Swedish. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-7:2003 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 7: Latin/Greek alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859-7:2003 [R2013])

Specifies a set of 188 coded graphic characters identified as Latin/Greek alphabet. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general-purpose applications in typical office environments in at least the following languages: English, Greek, and Latin. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. ISO/IEC 8859-7:2003 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367, or their corresponding G1 sets from the ISO International Register of Coded Character Sets to be Used with Escape Sequences, should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters (see Clause 6 in this standard).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-9:1999 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 9: Latin alphabet No. 5 (reaffirm a national adoption INCITS/ISO/IEC 8859-9:1999 [R2013])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 5. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages: Albanian, Basque, Breton, Catalan, Danish, Dutch, English, Faroese, Finnish, French (with restrictions, see Annex A.1, Notes), Frisian, Galician, German, Greenlandic, Irish Gaelic (new orthography), Italian, Latin, Luxemburgish, Norwegian, Portuguese, Rhaeto-Romanic, Scottish Gaelic, Spanish, Swedish and Turkish. This set of coded graphic characters may be regarded as a version of an 8-bit code according to ISO/IEC 2022 or ISO/IEC 4873 at level 1. This part of ISO/IEC 8859 may not be used in conjunction with any other parts of ISO/IEC 8859. If coded characters from more than one part are to be used together, by means of code extension techniques, the equivalent coded character sets from ISO/IEC 10367 should be used instead within a version of ISO/IEC 4873 at level 2 or level 3. The coded characters in this set may be used in conjunction with coded control functions selected from ISO/IEC 6429. However, control functions are not used to create composite graphic symbols from two or more graphic characters (see clause 6 in this standard).

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New National Adoption

INCITS/ISO/IEC 8859-10:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 10: Latin alphabet No. 6 (reaffirm a national adoption INCITS/ISO/IEC 8859-10:1998 [R2013])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 6. This set of coded graphic characters is intended for use in data- and text-processing applications and also for information interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-11:2001 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 11: Latin/Thai alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859-11:2001 [R2013])

This part of ISO/IEC 8859 specifies a set of 183 coded graphic characters identified as Latin/Thai alphabet. This set of coded graphic characters is intended for use in data- and text-processing applications and also for information interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-1:1998 [R2013], Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1 (reaffirm a national adoption INCITS/ISO/IEC 8859-1:1998 [R2013])

Specifies a set of 191 coded graphic characters identified as Latin alphabet No. 1. This set of coded graphic characters is intended for use in data and text processing applications and also for information interchange. The set contains graphic characters used for general-purpose applications in typical office environments in at least the following languages Albanian, Basque, Breton, Catalan, Danish, Dutch, English, Faroese, Finnish, French (with restrictions, see Annex A.1, Notes), Frisian, Galician, German, Greenlandic, Icelandic, Irish Gaelic (new orthography), Italian, Latin, Luxemburgish, Norwegian, Portuguese, Rhaeto-Romanic, Scottish Gaelic, Spanish, and Swedish.

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New National Adoption

INCITS/ISO/IEC 8859-13:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 13: Latin alphabet No. 7 (reaffirm a national adoption INCITS/ISO/IEC 8859-13:1998 [R2013])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 7. This set of coded graphic characters is intended for use in data- and text-processing applications and also for information interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-14:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 14: Latin alphabet No. 8 (Celtic) (reaffirm a national adoption INCITS/ISO/IEC 8859-14:1998 [R2013])

This part of ISO/IEC 8859 specifies a set of 191 coded graphic characters identified as Latin alphabet No. 8 (Celtic). This set of coded graphic characters is intended for use in data- and text-processing applications and also for information interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 8859-15:1999 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 15: Latin alphabet No. 9 (reaffirm a national adoption INCITS/ISO/IEC 8859-15:1999 [R2013])

Specifies a set of 191 coded graphic characters identified as Latin alphabet No. 9. This set of coded graphic characters is intended for use in data- and text-processing applications and also for information interchange. The set contains graphic characters used for general purpose applications in typical office environments in at least the following languages Albanian, Basque, Breton, Catalan, Danish, Dutch, English, Estonian, Faroese, Finnish, French, Frisian, Galician, German, Greenlandic, Icelandic, Irish Gaelic (new orthography), Italian, Latin, Luxemburgish, Norwegian, Portuguese, RhaetoRomanic, Scottish Gaelic, Spanish, and Swedish.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 9281-1:1990 [R201x], Information technology - Picture coding methods - Part 1: Identification (reaffirm a national adoption INCITS/ISO/IEC 9281-1:1990 [R2013])

Specifies the identification methods for coding of pictorial information in digital form. It does not specify the contents of the data field of a picture entity. For instance, this field may also contain audio and/or animation data associated with the data specifying the picture(s). Serves as a basis for a number of standards. In combination with one or more of those, pictorial information in digital form, using one or more methods of coding, may be built up into a document for visual comprehension. Graphic characters coded in accordance with other standards can also be combined with the picture information. The coded information from such a document may be processed, and transmitted by telecommunications systems. Specifies a technique for switching between character-coded information and digital pictorial information, and between different picture coding methods.

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New National Adoption

INCITS/ISO/IEC 9281-2:1990 [R201x], Information technology - Picture coding methods - Part 2: Procedure for registration (reaffirm a national adoption INCITS/ISO/IEC 9281-2:1990 [R2013])

Specifies the procedures to be followed by a Registration Authority in preparing, maintaining, and publishing a register of identifiers allocated to the methods concerned. Except the identifiers the registration does not affect the status of the method. Thus, the registration procedure must be clearly distinguished from the standardization process.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 9282-1:1988 [R201x], Information processing - Coded representation of pictures - Part 1: Encoding principles for picture representation in a 7-bit or 8-bit environment (reaffirm a national adoption INCITS/ISO/IEC 9282-1:1988 [R2013])

Defines the coding principles to be used in interchanging pictures consisting of graphic images in a 7-bit or 8-bit environment; the data structures to be used to represent the primitives describing a picture; the general datatypes which can be used as operands within a primitive. Does not deal with the presentation semantics of pictures. These are defined in the related International Standards. Applies to the data streams containing data structured in accordance with picture-coding methods defined in ISO 9281.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 9541-1:2012 [R201x], Information technology - Font information interchange - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 9541-1:2012 [2013])

Defines a method of naming glyphs and glyph collections, independent of any document-encoding technique; it assumes that one or more methods of associating document-encoding techniques with glyph identifiers used in font resources will be provided by text-processing systems. Specifies the architecture of a font resource, i.e., the font description, font metrics, glyph description, and glyph metrics properties required for font references and the interchange of font resources.

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New National Adoption

INCITS/ISO/IEC 9541-2:2012 [R201x], Information technology - Font information interchange - Part 2: Interchange format (reaffirm a national adoption INCITS/ISO/IEC 9541-2:2012 [2013])

Specifies the architecture of font resources, as well as the formats for font interchange amongst information processing systems. Specifies the architecture and formats that can be used to construct font references in general electronic document interchange. Specifies the interchange formats for font information, and the minimum subsets of that information required for interchange. ISO/IEC 9541-2:2012 requires the property definitions as defined in ISO/IEC 9541-1.

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New National Adoption

INCITS/ISO/IEC 9541-3:2012 [R201x], Information technology - Font information interchange - Part 3: Glyph shape representation (reaffirm a national adoption INCITS/ISO/IEC 9541-3:2012 [2013])

Specifies the architecture of font resources, as well as the formats for font interchange among information processing systems. Specifies the architecture and formats that can be used to construct font references in general electronic document interchange. Specifies the architecture and interchange formats of glyph shape representations.

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New National Adoption

INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [R201x], Information technology - Font information interchange - Part 4: Harmonization to Open Font Format - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [2013])

Technical Corrigendum 1 to ISO/IEC 9541-4:2009.

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New National Adoption

INCITS/ISO/IEC 9593-4:1991/AM 2:1998 [R201x], Information Technology - Computer graphics - Programmers Hierarchical Interactive Graphics System (PHIGS) Language Bindings - Part 4: C - Amendment 2 (reaffirm a national adoption INCITS/ISO/IEC 9593-4:1991/AM2:2008 [R2013])

Incorporation of PHIGS amendments.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 9796-3:2006 [R201x], Information Technology - Security Techniques - Digital Signature Schemes Giving Message Recovery - Part 3: Discrete Logarithm-Based Mechanisms (reaffirm a national adoption INCITS/ISO/IEC 9796-3:2006 [R2013])

Specifies two randomized digital signature schemes giving message recovery. The security of both schemes is based on the difficulty of the discrete logarithm problem. The first scheme is defined on a prime field and the second one on an elliptic curve. Also defines a redundancy scheme using hash-codes and specifies how the basic signature schemes are to be combined with the redundancy scheme. Also defines an optional control field in the hash-token, which can provide added security to the signature.

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New National Adoption

INCITS/ISO/IEC 10175-1:1996 [R201x], Information Technology - Text and Office Systems - Document Printing Application (DPA) - Part 1: Abstract Service Definition and Procedures (reaffirm a national adoption INCITS/ISO/IEC 10175-1:1996 [R2013])

Specifies a client-server model of printing in accordance with the Distributed-Office-Applications Model (ISO/IEC 10031-1). Together, the capabilities provided can enable users to create and produce high-quality office documents in a consistent and unambiguous manner within a distributed open system environment.

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New National Adoption

INCITS/ISO/IEC 10175-2:1996 [R201x], Information Technology - Text and Office Systems - Document Printing Application (DPA) - Part 2: Protocol Specification (reaffirm a national adoption INCITS/ISO/IEC 10175-2:1996 [R2013])

Specifies the abstract syntax of the Document Printing Application (DPA) access protocol, how this protocol supports the DPA abstract service, the mapping of the DPA onto the services used and the requirements for conformance with the DPA access protocol.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10536-1:2000 [R201x], Identification cards - Contactless integrated circuit(s) cards - Close coupled cards - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 10536-1:2000 [R2013])

Specifies the physical characteristics of contactless integrated circuit(s) cards, (CICCs). It applies to identification cards of the ID-1 card type. Applies to integrated circuit(s) cards that have a physical interface for transmitting power, clock signal, and data signals into the CICC and receiving data signals from the CICC without the use of conductive contacts; this part does not define the nature, number, and position of the contactless interfaces. Annex A includes test methods and acceptance criteria for certain of the requirements.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10536-3:1996 [R201x], Identification cards - Contactless integrated circuit(s) cards - Part 3: Electronic signals and Reset procedures (reaffirm a national adoption INCITS/ISO/IEC 10536-3:1996 [R2013])

Specifies the nature and characteristics of the fields to be provided for power and bidirectional communications between card coupling devices and contactless integrated circuit(s) cards of the ID-1 card type in slot or surface operation. Is to be used in conjunction with ISO/IEC 10536-1 and ISO/IEC 10536-2.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10918-1:1994 [R201x], Information technology - Digital compression and coding of continuous-tone still images: Requirements and guidelines (reaffirm a national adoption INCITS/ISO/IEC 10918-1:1994 [R2013])

Specifies processes for converting source image data to compressed image data, processes for converting compressed image data to reconstructed image data, coded representations for compressed image data, and gives guidance on how to implement these processes in practice. Is applicable to continuous-tone - grayscale or colour - digital still image data and to a wide range of applications which require use of compressed images. Is not applicable to bi-level image data.

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New National Adoption

INCITS/ISO/IEC 10918-2:1995 [R201x], Information technology - Digital compression and coding of continuous-tone still images: Compliance testing (reaffirm a national adoption INCITS/ISO/IEC 10918-2:1995 [R2013])

Specifies normative compliance tests for the ITU-T Rec.T.81 (ISO/IEC 10981-1) encoding and decoding processes. These compliance tests are applicable to "stand-alone" generic implementations of one or more of the encoding and decoding processes specified in ITU-T Rec.T.81 (ISO/IEC 10918-1). The purpose of these tests include that generic encoder (and decoder) implementations compute the discrete cosine transform (DCT) and quantization functions with sufficient accuracy.

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New National Adoption

INCITS/ISO/IEC 10918-3:1997 [R201x], Information technology - Digital compression and coding of continuous-tone still images: Extensions (reaffirm a national adoption INCITS/ISO/IEC 10918-3:1997 [R2013])

Applicable to continuous-tone grayscale or colour digital still image data. It is applicable to a wide range of applications which require use of compressed images. Defines extensions [including variable quantization, selective refinement, tiling, and a Still Picture Interchange File Format (SPIFF)] to processes for converting Source image data to compressed image data. Defines extensions to processes for converting compressed image data to reconstructed image data. Defines coded representations for compressed image data. Gives guidance and examples on how to implement these extensions in practice. Describes compliance tests for these extensions.

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New National Adoption

INCITS/ISO/IEC 11172-1:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 1: Systems (reaffirm a national adoption INCITS/ISO/IEC 11172-1:1993 [R2013])

Specifies the system layer of the coding. Was developed principally to support the combination of the video and audio coding methods defined in ISO/IEC 11172-2 and ISO/IEC 11172-3. The system layer supports the following basic functions: the synchronization of multiple compressed streams on playback, the interleaving of multiple compressed streams into a single stream, the initializiation of buffering for playback start up, continuous buffer management, and time identification.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 11172-2:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 2: Video (reaffirm a national adoption INCITS/ISO/IEC 11172-2:1993 [R2013])

Specifies the coded representation of video for digital storage media and the decoding process. Is primarily applicable to digital storage media supporting a continuous transfer rate up to about 1,5 Mbit/s, such as compact disc, digital audio tape, and magnetic hard disc, and for non-interlaced video formats having approximately 288 lines of 352 pels and picture rates around 24 Hz to 30 Hz. Nevertheless, it can be used more widely than this because of the generic approach taken.

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New National Adoption

INCITS/ISO/IEC 11172-3:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 3: Audio (reaffirm a national adoption INCITS/ISO/IEC 11172-3:1993 [R2013])

Specifies the coded representation of high-quality audio for storage media and the method for decoding of high-quality audio signals. Is intended for application to digital storage media providing a total continuous transfer rate of about 1.5 Mbit/s for both audio and video bitstreams, such as CD, DAT and magnetic hard disc, and for sampling rates of 32 kHz, 44.1 kHz, and 48 kHz.

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New National Adoption

INCITS/ISO/IEC 11172-4:1995 [R201x], Information technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s - Part 4: Compliance testing (reaffirm a national adoption INCITS/ISO/IEC 11172-4:1995 [R2013])

Specifies how tests can be designed to verify whether bitstreams and decoders meet requirements specified in parts 1, 2 and 3 of ISO/IEC 11172. Summarizes the requirements, cross-references them to characteristics, and defines how compliance with them can be tested. Gives guidelines how to construct tests and determine their outcome. Defines some actual tests only for audio.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 11770-1:2010 [R201x], Information technology - Security techniques - Key management - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 11770-1:2010 [2013])

Defines a general model of key management that is independent of the use of any particular cryptographic algorithm. However, certain key distribution mechanisms can depend on particular algorithm properties, for example, properties of asymmetric algorithms. Contains the material required for a basic understanding of subsequent parts.

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New National Adoption

INCITS/ISO/IEC 13250-6:2010 [R201x]:, Information technology - Topic Maps - Part 6: Compact syntax (reaffirm a national adoption INCITS/ISO/IEC 13250-6:2010 [2013])

Defines a text-based notation for representing instances of the data model defined in ISO/IEC 13250-2. It also defines a mapping from this notation to the data model. The syntax is defined through an Extended Backus–Naur Form (EBNF) grammar.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 14495-2:2003 [R201x], Information technology - Lossless and near-lossless compression of continuous-tone still images - Part 2: Extensions (reaffirm a national adoption INCITS/ISO/IEC 14495-2:2003 [R2013])

Defines a set of lossless (bit-preserving) and nearly lossless (where the error for each reconstructed sample is bounded by a predefined value) compression methods for coding continuous-tone (including bi-level), gray-scale, or colour digital still images.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 14496-5:2001 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software (Ed 2) (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001 [R2013])

Reference software is normative in the sense that any conforming implementation of the software, taking the same conformant bitstreams, using the same output file format, will output the same file. Complying ISO/IEC 14496 implementations are not expected to follow the algorithms or the programming techniques used by the reference software. Although the decoding software is considered normative, it cannot add anything to the textual technical description included in parts 1, 2, 3, and 6 of ISO/IEC 14496.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 14496-14:2003 [R201x], Information technology - Coding of audio-visual objects - Part 14: MP4 file format (reaffirm a national adoption INCITS/ISO/IEC 14496-14:2003 [R2013])

Specifies the MP4 file format as derived from ISO/IEC 14496-12 and ISO/IEC 15444-12, the ISO base media file format. It revises and completely replaces Clause 13 of ISO/IEC 14496-1, in which the file format was previously specified. The MP4 file format defines the storage of MPEG-4 content in files. It is a flexible format, permitting a wide variety of usages, such as editing, display, interchange and streaming.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 14496-5:2001/AM 1:2002 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 1: Reference software for MPEG-4 (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 1:2002 [R2013])

Amendment 1 to ISO/IEC 14496-5:2001.

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New National Adoption

INCITS/ISO/IEC 14496-5:2001/AM 2:2003 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 2: MPEG-4 reference software extensions for XMT and media nodes (reaffirm a national adoption INCITS/ISO/IEC 14496 -5:2001/AM 2:2003 [R2013])

Amendment 2 to ISO/IEC 14496-5:2001.

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New National Adoption

INCITS/ISO/IEC 15408-2:2008 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 2: Security functional components (reaffirm a national adoption INCITS/ISO/IEC 15408-2:2008 [2013])

Defines the content and presentation of the security functional requirements to be assessed in a security evaluation using ISO/IEC 15408. It contains a comprehensive catalogue of predefined security functional components that will meet most common security needs of the marketplace. These are organized using a hierarchical structure of classes, families and components, and supported by comprehensive user notes

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New National Adoption

INCITS/ISO/IEC 15408-3:2008 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 3: Security assurance components (reaffirm a national adoption INCITS/ISO/IEC 15408-3:2008 [2013])

Defines the assurance requirements of the evaluation criteria. It includes the evaluation assurance levels that define a scale for measuring assurance for component targets of evaluation (TOEs), the composed assurance packages that define a scale for measuring assurance for composed TOEs, the individual assurance components from which the assurance levels and packages are composed, and the criteria for evaluation of protection profiles and security targets.

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New National Adoption

INCITS/ISO/IEC 15444-2:2004 [R201x], Information technology - JPEG 2000 image coding system - Part 2: Extensions (reaffirm a national adoption INCITS/ISO/IEC 15444-2:2004 [R2013])

Defines a set of lossless (bit-preserving) and lossy compression methods for coding continuous-tone, bi-level, grey-scale, colour digital still images, or multi-component images. Specifies extended decoding processes for converting compressed image data to reconstructed image data. Specifies an extended codestream syntax containing information for interpreting the compressed image data. Specifies an extended file format. Specifies a container to store image metadata. Defines a standard set of image metadata. Provides guidance on extended encoding processes for converting source image data to compressed image data. Provides guidance on how to implement these processes in practice.

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New National Adoption

INCITS/ISO/IEC 15444-3:2007 [R201x], Information technology - JPEG 2000 image coding system - Part 3: Motion JPEG 2000 (reaffirm a national adoption INCITS/ISO/IEC 15444-3:2007 [R2013])

Specifies the use of the wavelet-based JPEG2000 codec for the coding and display of timed sequences of images (motion sequences), possibly combined with audio, and composed into an overall presentation. In this specification, a file format is defined, and guidelines for the use of the JPEG2000 codec for motion sequences are supplied.

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INCITS/ISO/IEC 15444-4:2004 [R201x], Information technology - JPEG 2000 image coding system - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 15444-4:2004 [R2013])

Specifies the framework, concepts, methodology for testing, and criteria to be achieved to claim compliance to ITU-T Recommendation T.800 | ISO/IEC 15444-1. It provides a framework for specifying abstract test suites and for defining the procedures to be followed during compliance testing.

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New National Adoption

INCITS/ISO/IEC 15444-2:2004/AM2:2006 [R201x], Information technology - JPEG 2000 image coding system - Part 2: Extensions - Amendment 2: Extended capabilities marker segment (reaffirm a national adoption INCITS/ISO/IEC 15444-2:2004/AM2:2006 [R2013])

Amendment 2 to ISO/IEC 15444-2:2004.

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New National Adoption

INCITS/ISO/IEC 15457-2:2007 [R201x], Identification cards - Thin flexible cards - Part 2: Magnetic recording technique (reaffirm a national adoption INCITS/ISO/IEC 15457-2:2007 [R2013])

Thin flexible cards are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, and stored value.

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New National Adoption

INCITS/ISO/IEC 15938-5:2003 [R201x], Information technology - Multimedia content description interface - Part 5: Multimedia description schemes (reaffirm a national adoption INCITS/ISO/IEC 15938-5:2003 [R2013])

Specifies a metadata system for describing multimedia content. This document specifies the Multimedia Description Schemes (MDS) description tools (Description Schemes, Descriptors, and datatypes) that comprise ISO/IEC 15938-5.

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New National Adoption

INCITS/ISO/IEC 15938-6:2003 [R201x], Information technology - Multimedia content description interface - Part 6: Reference software (reaffirm a national adoption INCITS/ISO/IEC 15938-6:2003 [R2013])

Operates on and generates conformant bit streams. This International Standard provides a specific implementation that behaves in a conformant manner. In general, other implementations that conform to ISO/IEC 15938 are possible that do not necessarily use the algorithms or the programming techniques of the reference software.

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New National Adoption

INCITS/ISO/IEC 15938-7:2003 [R201x], Information technology - Multimedia content description interface - Part 7: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 15938-7:2003 [R2013])

Specifies a metadata system for describing multimedia content. ISO/IEC 15938-7:2003 specifies how tests can be designed to verify whether descriptions and description consuming terminals meet the specifications of parts 1, 2, 3, 4, and 5 of ISO/IEC 15938. In ISO/IEC 15938-7:2003, the creation or extraction of descriptions from multimedia content is not addressed specifically. A system producing descriptions may be said to be an ISO/IEC 15938 compatible description production system if it produces descriptions (binary or textual) that conform to the specifications of parts 1, 2, 3, 4, and 5 of ISO/IEC 15938.

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New National Adoption

INCITS/ISO/IEC 18033-2:2006 [R201x], Information technology - Security techniques - Encryption algorithms - Part 2: Asymmetric ciphers (reaffirm a national adoption INCITS/ISO/IEC 18033-2:2006 [R2013])

Specifies encryption systems (ciphers) for the purpose of data confidentiality. The primary purpose of encryption (or encipherment) techniques is to protect the confidentiality of stored or transmitted data. An encryption algorithm is applied to data (often called plaintext or cleartext) to yield encrypted data (or ciphertext); this process is known as encryption. The encryption algorithm should be designed so that the ciphertext yields no information about the plaintext except, perhaps, its length. Associated with every encryption algorithm is a corresponding decryption algorithm, which transforms ciphertext back into its original plaintext.

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New National Adoption

INCITS/ISO/IEC 19757-5:2011 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 5: Extensible Datatypes (reaffirm a national adoption INCITS/ISO/IEC 19757-5:2011 [2013])

Specifies an XML language that allows users to create and extend datatype libraries for their own purposes. The datatype definitions in these libraries can be used by XML validators and other tools to validate content and make comparisons between values.

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New National Adoption

INCITS/ISO/IEC 19757-7:2009 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 7: Character Repertoire Description Language (CREPDL) (reaffirm a national adoption INCITS/ISO/IEC 19757-7:2009 [2013)

Defines a set of Document Schema Definition Languages (DSDL) that can be used to specify one or more validation processes performed against Extensible Markup Language (XML) documents. Specifies a Character Repertoire Description Language (CREPDL); a CREPDL schema describes a character repertoire. ISO/IEC 19757-7:2009 introduces kernels and hulls of repertoires, then specifies the syntax of CREPDL schemas and the semantics of a correct CREPDL schema; the semantics specify when a character is in a repertoire described by a CREPDL schema. ISO/IEC 19757-7:2009 defines CREPDL processors and their behaviour. Finally, it describes differences of conformant CREPDL processors, and provides examples of CREPDL schemas.

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INCITS/ISO/IEC 19757-11:2011 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 11: Schema association (reaffirm a national adoption INCITS/ISO/IEC 19757-11:2011 [2013])

Allows schemas using any schema definition language to be associated with an XML document by including one or more processing instructions with a target of XML-model in the document's prolog.

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New National Adoption

INCITS/ISO/IEC 19757-8:2008/COR 1:2011 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 8: Document Semantics Renaming Language (DSRL) - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19757-8:2008/COR 1:2011 [2013])

Technical Corrigendum 1 to INCITS/ISO/IEC 19757-8:2008.

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New National Adoption

INCITS/ISO/IEC 19777-1:2006 [R201x], Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 1: ECMA Script (reaffirm a national adoption INCITS/ISO/IEC 19777-1:2006 [R2013])

For integration into a programming language, the X3D abstract interfaces are embedded in a language-dependent layer obeying the particular conventions of that language. ISO/IEC 19777-1:2006 specifies such a language-dependent layer for the ECMAScript language. ISO/IEC 19775-2 specifies a language-independent application programmer interface (API) to a set of services and functions.

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New National Adoption

INCITS/ISO/IEC 19777-2:2006 [R201x], Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 2: Java (reaffirm a national adoption INCITS/ISO/IEC 19777-2:2006 [R2013])

The Extensible 3D (X3D) specification, ISO/IEC 19775, specifies a language-independent application programmer interface (API) to a set of services and functions. For integration into a programming language, the X3D abstract interfaces are embedded in a language dependent layer obeying the particular conventions of that language. ISO/IEC 19777-2:2006 specifies such a language-dependent layer for the Java programming language.

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New National Adoption

INCITS/ISO/IEC 19784-2:2007 [R201x], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface (reaffirm a national adoption INCITS/ISO/IEC 19784-2:2007 [R2013])

Defines the interface between a biometric service provider (BSP) and a biometric archive function provider (BAFP) for BioAPI. A BAFP encapsulates all functionality for the storage, search and management of biometric reference data regardless of the kind of physical storage media. Using a BAFP, a BSP does not have to provide special handling of different storage media like database servers, smartcards, database web services, etc. Whatever media is used, the BSP in all cases handles the same interface for a BAFP. The interface description contains management functions to attach and detach different BAFPs, to query biometric data records and to store biometric data records.

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New National Adoption

INCITS/ISO/IEC 19784-2:2007/COR 1:2011 [R201x], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784-2:2007/COR 1:2013)

Technical Corrigendum 1 to ISO/IEC 19784-2:2007.

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New National Adoption

INCITS/ISO/IEC 19784-4:2011/COR1:2013 [R201x], Information technology - Biometric application programming interface - Part 4: Biometric sensor function provider interface - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784-4:2011/Cor 1:2013)

Corrigendum 1 to ISO/IEC 19784-4:2011.

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New National Adoption

INCITS/ISO/IEC 19785-2:2006 [R201x], Information Technology - Common Biometric Exchange Formats Framework - Part 2: Procedures for the Operation of the Biometric Registration Authority (reaffirm a national adoption INCITS/ISO/IEC 19785-2:2006 [R2013])

Specifies the requirements for the operation of the Biometric Registration Authority within the Common Biometric Exchange Formats Framework (CBEFF). The Registration Authority is responsible for assigning and publishing, via its website, unique biometric organization identifier values to organizations that own or are otherwise responsible for standardized or proprietary format specifications for biometric data blocks, biometric information record security blocks and/or CBEFF patron formats, and to organizations that intend to assign biometric product identifier values to their products.

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New National Adoption

INCITS/ISO/IEC 19794-1:2011 [R201x], Information technology - Biometric data interchange formats - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 19794-1:2011 [2013])

Describes the general aspects and requirements for defining biometric data interchange formats. The notation and transfer formats provide platform independence and separation of transfer syntax from content definition. Defines what is commonly applied for biometric data formats, i. e., the standardization of the common content, meaning, and representation of biometric data formats of biometric types considered in the specific parts of ISO/IEC 19794.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 19794-2:2011 [R201x], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data (reaffirm a national adoption INCITS/ISO/IEC 19794-2:2011 [2013])

Specifies a concept and data formats for representation of fingerprints using the fundamental notion of minutiae. It is generic, in that it may be applied and used in a wide range of application areas where automated fingerprint recognition is involved. It contains definitions of relevant terms, a description of how minutiae are to be determined, data formats for containing the data for both general use and for use with cards, and conformance information. Guidelines and values for matching and decision parameters are provided. Specifies the following: the fundamental data elements used for minutiae-based representation of a fingerprint; three data formats for interchange and storage of this data; a record-based format, and normal and compact formats for use on a smart card in a match-on-card application; optional extended data formats for including additional data such as ridge counts and core and delta location. Provides for interchange of finger minutiae data between sensing, storage and matching systems.

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New National Adoption

INCITS/ISO/IEC 19794-4:2011 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011 [2013])

Specifies a data record interchange format for storing, recording, and transmitting the information from one or more finger or palm image areas within an ISO/IEC 19785-1 data structure. This can be used for the exchange and comparison of finger image data. It defines the content, format, and units of measurement for the exchange of finger image data that may be used in the verification or identification process of a subject. The information consists of a variety of mandatory and optional items, including scanning parameters, compressed or uncompressed images and vendor-specific information. This information is intended for interchange among organizations that rely on automated devices and systems for identification or verification purposes based on the information from finger image areas. Information compiled and formatted in accordance with it can be recorded on machine-readable media or may be transmitted by data communication facilities.

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New National Adoption

INCITS/ISO/IEC 19794-5:2011 [R201x], Information technology - Biometric data interchange formats - Part 5: Face image data (reaffirm a national adoption INCITS/ISO/IEC 19794-5:2011 [2013])

Specifies a record format for storing, recording, and transmitting information from one or more facial images or a short video stream of facial images. Specifies scene constraints of the facial images. Specifies photographic properties of the facial images. Specifies digital image attributes of the facial images. Provides best practices for the photography of faces.

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New National Adoption

INCITS/ISO/IEC 19794-6:2011 [R201x], Information technology - Biometric data interchange formats - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 19794-6:2011 [2013])

Specifies iris image interchange formats for biometric enrollment, verification, and identification systems. The image information might be stored as an array of intensity values optionally compressed with ISO/IEC 15948 or ISO/IEC 15444, or an array of intensity values optionally compressed with ISO/IEC 15948 or ISO/IEC 15444 that might be cropped around the iris, with the iris at the center, and which might incorporate region-of-interest masking of non-iris regions. Does not establish requirements on the optical specifications of cameras; requirements on photometric properties of iris images; or requirements on enrollment processes, workflow and use of iris equipment.

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New National Adoption

INCITS/ISO/IEC 19794-9:2011 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular image data (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011 [2013])

Specifies an image interchange format for biometric person identification or verification technologies that utilize human vascular biometric images and can be used for the exchange and comparison of vascular image data. It specifies a data record interchange format for storing, recording, and transmitting vascular biometric information from one or more areas of the human body. It defines the contents, format, and units of measurement for the image exchange. The format consists of mandatory and optional items, including scanning parameters, compressed or uncompressed image specifications and vendor-specific information. Information compiled and formatted in accordance with it can be recorded on machine-readable media or can be transmitted by data communication facilities.

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New National Adoption

INCITS/ISO/IEC 19794-11:2013 [R201x], Information technology - Biometric data interchange formats - Part 11: Signature/sign processed dynamic data (reaffirm a national adoption INCITS/ISO/IEC 19794-11:2013 [2013])

For the purpose of biometric comparison, specifies a data interchange format for processed signature/sign behavioural data extracted from a time series, captured using devices such as digitizing tablets, pen-based computing devices, or advanced pen systems. The data interchange format is generic, in that it may be applied and used in a wide range of application areas where handwritten signs or signature/signs are involved. No application-specific requirements or features are addressed. Contains definitions of relevant terms, a description of what data is extracted, and a data format for containing the data, together with advice on whether a set of user's signature/sign is suitable for identification purposes using it. It is advisable that stored and transmitted biometric data is time-stamped and that cryptographic techniques be used to protect their authenticity, integrity, and confidentiality; however, such provisions are beyond the scope.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 19794-14:2013 [R201x], Information technology - Biometric data interchange formats - Part 14: DNA data (reaffirm a national adoption INCITS/ISO/IEC 19794-14:2013 [2013])

Specifies a data interchange format for the exchange of DNA data for person identification or verification technologies that utilize human DNA. It will provide the ability for DNA profile data to be exchanged and used for comparison (subject to privacy regulations) with DNA profile data produced by any other system that is based on a compatible DNA profiling technique and where the data format conforms to it. Intended to cover current forensic DNA profiling or typing techniques that are based on short tandem repeats (STRs), including STRs on the Y chromosome (Y-STRs), as well as mitochondrial DNA. A single DNA data record for a subject may require data resulting from more than one of these different DNA techniques. Enables data for multiple DNA techniques to be presented in a single record for a given subject. This data format has been prepared in light of ongoing efforts to reduce human involvement in the processing (enrollment and comparison) of DNA. In anticipation of the data-format requirements for automated DNA techniques will describe a format for both processed and raw (electrophoretic) DNA data. Extensible Mark-up Language (XML) encoding of the data is used to specify DNA data interchange. A normative XML Schema Definition (XSD) specification is provided in Annex B. Not intended for any other purposes than exchange of DNA for biometric verification and identification of individuals; in particular it does not exchange medical and other health-related information.

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New National Adoption

INCITS/ISO/IEC 19794-4:2005/COR1:2011 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011/Cor 1:2014)

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New National Adoption

INCITS/ISO/IEC 19794-8:2006/COR1:2011 [R201x], Information technology - Biometric data interchange formats - Part 8: Finger pattern skeletal data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-8:2006/Cor 1:2013)

Technical Corrigendum 1 to ISO/IEC 19794-8:2006.

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New National Adoption

INCITS/ISO/IEC 19794-9:2011/COR1:2012 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Cor 1:2012)

Technical Corrigendum 1 to ISO/IEC 19794-9:2011.

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New National Adoption

INCITS/ISO/IEC 19794-9:2011/AM 1:2013 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Amd 1:2013)

Amendment 1 to ISO/IEC 19794-9:2011.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 19795-6:2012 [R201x], Information technology - Biometric performance testing and reporting - Part 6: Testing methodologies for operational evaluation (reaffirm a national adoption INCITS/ISO/IEC 19795-6:2012 [2013])

Provides guidance on the operational testing of biometric systems; specifies performance metrics for operational systems; details data that may be retained by operational systems to enable performance monitoring; and specifies requirements on test methods, recording of data, and reporting of results of operational evaluations.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 20944-1:2013 [201x], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 1: Framework, common vocabulary, and common provisions for conformance (reaffirm a national adoption INCITS/ISO/IEC 20944-1:2013 [2013])

Provides the bindings and their interoperability for metadata registries, such as those specified in the ISO/IEC 11179 series of Standards. This part contains an overview, framework, common vocabulary, and common provisions for conformance for the ISO/IEC 20944 series of Standards.

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New National Adoption

INCITS/ISO/IEC 20944-2:2013 [201x], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 2: Coding bindings (reaffirm a national adoption INCITS/ISO/IEC 20944-2:2013 [2013])

Provides the bindings and their interoperability for metadata registries, such as those specified in the ISO/IEC 11179 series of Standards. Contains provisions that are common to coding bindings and the coding bindings themselves. The coding bindings have commonality in their conceptualization of data instances and their internal structures. Common features include: using datatypes to characterize the nature and operations upon data; using ISO/IEC 11404 to define and declare datatypes; using common aggregate structures, such as array and record, to describe sets of data; and using common navigation descriptions to reference components within a set of data. The individual coding bindings each incorporate a mapping of common data semantics to their individual binding requirements. XML and DIVP (dotted identifier value pair) bindings are provided.

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New National Adoption

INCITS/ISO/IEC 20944-3:2013 [201x], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 3: API bindings (reaffirm a national adoption INCITS/ISO/IEC 20944-3:2013 [2013])

Provides the bindings and their interoperability for metadata registries, such as those specified in the ISO/IEC 11179 series of Standards. Contains provisions that are common to application programming interface (API) bindings and the API bindings themselves. The API bindings have commonality in their conceptualization of the services provided. Common features include: using a session paradigm to access data; using a parameterized security framework to support a variety of security techniques; and using a hierarchical navigation for data access. Bindings for C, Java, and ECMAscript programming languages are provided.

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New National Adoption

INCITS/ISO/IEC 20944-4:2013 [201x], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 4: Protocol bindings (reaffirm a national adoption INCITS/ISO/IEC 20944-4:2013 [2013])

Provides the bindings and their interoperability for metadata registries, such as those specified in the ISO/IEC 11179 series of Standards. Contains provisions that are common to protocol bindings and the protocol bindings themselves. The protocol bindings have commonality in their conceptualization of the services provided. Common features include: common data transfer semantics; harmonized session services for connection-oriented and connection-less protocols. Bindings for HTTP and WebDAV protocols are provided.

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New National Adoption

INCITS/ISO/IEC 20944-5:2013 [201x], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 5: Profiles (reaffirm a national adoption INCITS/ISO/IEC 20944-5:2013 [2013])

Provides the bindings and their interoperability for metadata registries, such as those specified in the ISO/IEC 11179 series of Standards. Contains provisions that are common to the profiles, and the profiles themselves. A profile of ISO/IEC 11179-3:2003 is included, which maps ISO/IEC 11179 metadata attributes to standardized identifiers for navigation and access of ISO/IEC 11179 metadata.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 21000-2:2005 [R201x], Information Technology - Multimedia Framework (MPEG-21) - Part 2: Digital Item Declaration (reaffirm a national adoption INCITS/ISO/IEC 21000-2:2005 [R2013])

The ISO/IEC 21000 (MPEG-21) series of International Standards defines an open framework for multimedia delivery and consumption, with both the content creator and content consumer as focal points. The vision for MPEG-21 is to define a multimedia framework to enable transparent and augmented use of multimedia resources across a wide range of networks and devices used by different communities. This second part of MPEG -21 specifies a uniform and flexible abstraction and interoperable representation for declaring the structure and makeup of Digital Items. A Digital Item Declaration (DID) involves specifying the resources, metadata, and their interrelationships for a Digital Item. A DID is done using the Digital Item Declaration Language (DIDL).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 21000-3:2003 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software (reaffirm a national adoption INCITS/ISO/IEC 21000-3:2003 [R2013])

Reference software is normative in the sense that any conforming implementation of the software, taking the same conformant bitstreams, using the same output file format, will output the same file. Complying ISO/IEC 14496 implementations are not expected to follow the algorithms or the programming techniques used by the reference software. Although the decoding software is considered normative, it cannot add anything to the textual technical description included in parts 1, 2, 3, and 6 of ISO/IEC 14496.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 24754-1:2008 [R201x], Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008 [2013])

Provides the minimum requirements for specifying document rendering systems. It can apply to the document processing environment, where a document is given in a logically structured format which is expressed by a structure markup language, and the visual representation of the document is described by means of the external style and layout specifications which a style and layout specifications language provides. The visual representation of the given document is generated when the style and layout specifications are applied to the logical structure by a document rendering system. Provides an abstract list of the features that a rendering system for an authored document may have. The list provides a frame of reference, against which the user and implementor can compare the features of document rendering systems. However, does not specify a concrete interchange syntax or direct how each document rendering system shall behave. It provides the minimum requirements to specify the features that a document rendering system that transforms formatting objects to rendering output. It may be used as a frame of reference, against which the user, implementer, or software agent may compare the features of a document rendering system. According to these requirements, the user may express what they expect of a document rendering system, the implementer may describe the functionality and capability of the document rendering system that they implement, and the software agent may negotiate a minimum set of functionality and capability that are shared across different document rendering system implementations.

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New National Adoption

INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [R201x], Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [2013])

Technical Corrigendum 1 to INCITS/ISO/IEC 24754-1:2008.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29109-6:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 29109-6:2011 [2013])

Specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to ISO/IEC 19794-6:2005. Establishes:

- test assertions of the structure of the iris image data format as specified in ISO/IEC 19794-6:2005 (Type A Level 1 as defined in ISO/IEC 29109 -1:2009);

- test asssertions of internal consistency by checking the types of values that may be contained within each field (Type A Level 2 as defined in ISO/IEC 29109-1:2009); and

- tests of semantic assertions (Type A Level 3 as defined in ISO/IEC 29109-1:2009).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29109-7:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 7: Signature/sign time series data (reaffirm a national adoption INCITS/ISO/IEC 29109-7:2011 [2013])

Specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to ISO/IEC 19794-7. Defines two data interchange formats for signature/sign time series data, one for general use and one compact format for use with smart cards and other tokens.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29109-8:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 8: Finger pattern skeletal data (reaffirm a national adoption INCITS/ISO/IEC 29109-8:2011 [2013])

Specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to ISO/IEC 19794-8:2006. It establishes test assertions of the structure of the finger pattern skeletal data format as specified in ISO/IEC 19794-8:2006 (Type A Level 1 as defined in ISO/IEC 29109-1:2009), test assertions of internal consistency by checking the types of values that may be contained within each field (Type A Level 2 as defined in ISO/IEC 29109-1:2009).

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New National Adoption

INCITS/ISO/IEC 29109-9:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 9: Vascular image data (reaffirm a national adoption INCITS/ISO/IEC 29109-9:2011 [2013])

Specifies a data record interchange format for recording, storing, and transmitting one or more hand vascular images. Each image is accompanied by image-specific metadata contained in a header record. ISO/IEC 29109-9:2011 establishes tests for checking the correctness of the binary record. It defines a testing methodology to ensure conformance of a vendor's application or service to ISO/IEC 19794-9:2007.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29109-4:2010/COR 1:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 29109 -4:2010/COR 1:2011 [2013])

Technical Corrigendum 1 to ISO/IEC 29109-4:2010.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29142-1:2013 [201x], Information technology - Print cartridge characterization - Part 1: General: terms, symbols, notations and cartridge characterization framework (reaffirm a national adoption INCITS/ISO/IEC 29142-1:2013 [2013])

Establishes terms, symbols, notations and a framework for characterizing toner and ink cartridges used in printing devices that have a digital input printing path, including multi-function devices. It is intended for equipment used in office environments. It primarily provides a foundation for measuring, evaluating, or specifying characteristics of such toner and ink cartridges. The terms, symbols, notations and framework established in ISO/IEC 29142-1:2013 can be applied to such cartridges. The characterizations associated with the terms, symbols, notations, and framework established in ISO/IEC 29142-1:2013 are specified throughout the ISO/IEC 29142 series.

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New National Adoption

INCITS/ISO/IEC 29142-2:2013 [201x], Information technology - Print cartridge characterization - Part 2: Cartridge characterization data reporting (reaffirm a national adoption INCITS/ISO/IEC 29142-2:2013 [2013])

Establishes the product and package labelling, and related reporting provisions for toner and ink cartridges used in printing devices that have a digital input printing path, including multi-function devices. It is intended for equipment used in office environments. Defines the information requirements for the cartridge characterization documentation on packaging and cartridges, and in reports.

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New National Adoption

INCITS/ISO/IEC 29142-3:2013 [201x], Information technology - Print cartridge characterization - Part 3: Environment (reaffirm a national adoption INCITS/ISO/IEC 29142-3:2013 [2013])

Describes the principles and framework for environmental assessment of ink and toner cartridges used in printing devices that have a digital input printing path, including multi-function devices, including: (a) the goals and definitions related to environmental responsibility; (b) guidance to determine the relative benefits of reuse, recycling, recovery, and reduction techniques; (c) identification and prioritization of environmental attributes according to each phase of the cartridge life-cycle; and (d) criteria for establishing environmentally sustainable practices.

Establishes foundational terms, definitions, attributes, and test methods for cartridge environmental standards, environmental labels, and green procurement criteria.

Standardizes treatment of environmental interactions and impacts throughout the cartridge life-cycle, and promotes harmonization of environmental standards, environmental labels, and green procurement criteria pertaining to ink and toner cartridges, thereby reducing impact on the environment and informing and benefiting the cartridge customer.

Establishes environmental terms, definitions, attributes and test methods in accordance with the terms, symbols, notations and framework of ISO/IEC 29142-1 and ISO Guide 64.

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New National Adoption

INCITS/ISO/IEC 29500-2:2012 [R201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 2: Open Packaging Conventions (reaffirm a national adoption INCITS/ISO/IEC 29500-2:2012 [2013])

Specifies a set of conventions that are used by Office Open XML documents to define the structure and functionality of a package in terms of a package model and a physical model.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 646:1991 [R201x], Information technology - ISO 7-bit coded character set for information interchange (reaffirm a national adoption INCITS/ISO/IEC 646:1991 [R2013])

Specifies a set of 128 control and graphic characters such as letters, digits, and symbols with their coded representation. Applies to alphabets of the Latin script.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 2022:1994 [R201x], Information technology - Character code structure and extension techniques (reaffirm a national adoption INCITS/ISO/IEC 2022:1994 [R2013])

Specifies the structure of 8-bit codes and 7-bit codes that provide for the coding of character sets. The codes specified here are designed to be used for data that is processed sequentially in a forward direction. Use of these codes in strings of data which are processed in some other way, or which are included in data formatted for fixed-length record processing, may have undesirable results or may require additional special treatment to ensure correct interpretation.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 2375:2003 [R201x], Information technology - Procedure for registration of escape sequences and coded character sets (reaffirm a national adoption INCITS/ISO/IEC 2375:2003 [R2013])

Specifies the procedures to be followed for preparing, maintaining, and publishing a register of escape sequences and of the coded character sets they identify.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 4873:1991 [R201x], Information technology - ISO 8-bit code for information interchange - Structure and rules for implementation (reaffirm a national adoption INCITS/ISO/IEC 4873:1991 [R2013])

Specifies an 8-bit code which is derived from, and compatible with, the 7-bit coded character set specified in ISO/IEC 646. Normative Annex A gives restrictions applicable to the C0 and C1 sets.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7350:1991 [R201x], Information technology - Registration of repertoires of graphic characters from ISO/IEC 10367 (reaffirm a national adoption INCITS/ISO/IEC 7350:1991 [R2013])

Specifies the procedures to be followed in preparing, publishing, and maintaining a register of graphic characters. Annex A (Advisory Group) forms an integral part of this standard. Annex B (Forms for proposal) is for information only.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7810:2003 [R201x], Identification Cards - Physical Characteristics (reaffirm a national adoption INCITS/ISO/IEC 7810:2003 [R2013])

Describes the characteristics for identification cards as defined in the definitions clause and the use of such cards for international interchange. This International Standard specifies the physical characteristics of identification cards including card materials, construction, characteristics, and dimensions for four sizes of cards.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 7813:2006 [R201x], Information technology - Identification cards - Financial transaction cards (reaffirm a national adoption INCITS/ISO/IEC 7813:2006 [R2013])

Specifies the data structure and data content of magnetic tracks 1 and 2, which are used to initiate financial transactions. It takes into consideration both human and physical aspects and states minimum requirements of conformity. It references layout, recording techniques, numbering systems, registration procedures, but not security requirements.

Specifies the test procedures used to check ID-1 cards against the parameters specified in ISO/IEC 7813:2006.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10367:1991 [R201x], Information Technology - Standardized Coded Graphic Character Sets for Use in 8-Bit Codes (reaffirm a national adoption INCITS/ISO/IEC 10367:1991 [R2013])

Specifies a unique coded character set for use as G0 set and a series of coded character sets of up to 96 characters for use as G1, G2, and G3 sets in versions of ISO/IEC 4873.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10538:1991 [R201x], Information technology - Control functions for text communication (reaffirm a national adoption INCITS/ISO/IEC 10538:1991 [R2013])

Defines the control functions and their coded representations. Applies only to text made up of characters. Does not define any control functions required for controlling the process of communication. Annexes A, B, and C are for information only.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 10995:2011 [R201x], Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of the archival lifetime of optical media (reaffirm a national adoption INCITS/ISO/IEC 10995:2011 [2013])

Specifies an accelerated aging test method for estimating the life expectancy for the retrievability of information stored on recordable or rewritable optical disks.

This test includes details on the following formats: DVD-R/-RW/-RAM, +R/+RW. It can be applied to additional optical disk formats with the appropriate specification substitutions and can be updated in the future as required.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 11002:2008 [R201x], Information technology - Multipath management API (reaffirm a national adoption INCITS/ISO/IEC 11002:2008 [2013])

An Application Programming Interface (API) which provides management interfaces as defined in ISO/IEC 14776-453 (Information technology - Small computer system interface (SCSI) - Part 453: Primary commands-3 (SPC-3)) and common vendor-specific extensions to the standard capabilities. ISO/IEC 11002 relates to SCSI multipathing features and excludes multipathing between interconnect devices (such as Fibre Channel switches) and transport specific multipathing (such as iSCSI multiple connections per session).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 11544:1993 [R201x], Information technology - Coded representation of picture and audio information - Progressive bi-level image compression (reaffirm a national adoption INCITS/ISO/IEC 11544:1993 [R2013])

Defines a bit-preserving (lossless) compression method for coding image bit-planes and is particularly suitable for bi-level (two-tone, including black-white) images. Specifies requirements and test methods and gives datastream examples.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 11989:2010 [R201x], Information technology - iSCSI Management API (reaffirm a national adoption INCITS/ISO/IEC 11989:2010 [2013])

Specifies an Application Programming Interface (API) that provides interfaces to discover and manage iSCSI resources on a system. This Standard is applicable to vendors who deliver drivers that provide iSCSI resources to a system.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 13187:2011 [R201x], Information technology - Server management command line protocol (SM CLP) specification (reaffirm a national adoption INCITS/ISO/IEC 13187:2011 [2013])

ISO/IEC 13187:2011(E) lays out the general framework for the Server Management Command Line Protocol (SM CLP). This standard is intended to guide developers of implementations of the SM CLP and may also be used as a reference by system administrators and other users of SM CLP implementations.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 14473:1999 [R201x], Information technology - Office equipment - Minimum information to be specified for image scanners (reaffirm a national adoption INCITS/ISO/IEC 14473:1999 [R2013])

This Standard is intended to facilitate user selection of an image scanner. This International Standard specifies the minimum information that shall be included by manufacturers in their specification sheets for scanners.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 18045:2008 [R201x], Information technology - Security techniques - Methodology for IT security evaluation (reaffirm a national adoption INCITS/ISO/IEC 18045:2008 [2013])

Standard is a companion document to ISO/IEC 15408, Information technology - Security techniques - Evaluation criteria for IT security. ISO/IEC 18045:2008 defines the minimum actions to be performed by an evaluator in order to conduct an ISO/IEC 15408 evaluation, using the criteria and evaluation evidence defined in ISO/IEC 15408. ISO/IEC 18045:2008 does not define evaluator actions for certain high-assurance ISO/IEC 15408 components, where there is as yet no generally agreed guidance.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 18050:2006 [R201x], Information technology - Office equipment - Print quality attributes for machine readable digital postage marks (reaffirm a national adoption INCITS/ISO/IEC 18050:2006 [R2013])

Specifies two methodologies for the measurement of specific print quality attributes of two-dimensional bar code symbols printed within the requirements of Digital Postage Marks. One of these methodologies is applicable to multi-row bar code symbologies and the other to two-dimensional matrix symbologies. Defines methods for grading print quality attributes and deriving an overall assessment of symbol quality. In addition, it gives information on possible causes of deviation from optimum grades so as to assist users and postal operators in taking appropriate corrective action.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 19756:2011 [R201x], Information technology - Topic Maps - Constraint Language (TMCL) (reaffirm a national adoption INCITS/ISO/IEC 19756:2011 [2013])

A constraint language for Topic Maps, allowing definitions of Topic Maps schemas to be written in a precise and machine-readable form. This makes it possible to validate a topic map against a TMCL schema to see if it conforms to the constraints in the schema, and also enables other uses, such as schema-driven editors and object mappings. TMCL is defined as a Topic Maps vocabulary consisting of a number of topic, association, occurrence, and role types, identified by Published Subject Identifiers (PSIs), and defined using English prose. It defines the concept of validation, by which a given topic map is valid according to a schema if it conforms to all the constraints in that schema and a number of global validation rules which apply to all topic maps independent of schema.

TMCL does not have any syntax of its own, since it is defined simply as a Topic Maps vocabulary. However, a number of CTM templates are defined in ISO/IEC 19756:2011 in order to facilitate authoring of TMCL schemas using CTM.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 19799:2007 [R201x], Information technology - Method of measuring gloss uniformity on printed pages (reaffirm a national adoption INCITS/ISO/IEC 19799:2007 [R2013])

Defines methods and processes for measuring objective print quality attributes for the assessment of gloss non-uniformity on printed pages in reflection mode, and provides transforms, when applicable, that relate the objective results to subjective responses if appropriate. The gloss uniformity attributes included in ISO/IEC 19799:2007 are differential gloss, gloss uniformity within a page, and gloss consistency within a run.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 20060:2010 [R201x], Information technology - Open Terminal Architecture (OTA) specification - Virtual machine specification (reaffirm a national adoption INCITS/ISO/IEC 20060:2010 [2013])

Provides the specifications for the standard Open Terminal Architecture (OTA) kernel in several layers: Definition of the virtual machine (VM); description of the services provided by the VM to terminal programmers; specification of a set of tokens representing the native machine language of the VM; and specification of the format in which token modules are delivered to an OTA kernel for processing.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 21117:2012 [201x], Information technology - Office equipment - Copying machines and multi-function devices - Information to be included in specification sheets and related test methods (reaffirm a national adoption INCITS/ISO/IEC 21117:2012 [2013])

Specifies the information to be listed in specification sheets for electrophotographic digital copying machines and multi-function devices.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 21118:2012 [201x], Information technology - Office equipment - Information to be included in specification sheets - Data projectors (reaffirm a national adoption INCITS/ISO/IEC 21118:2012 [2013])

Specifies the information to be included in the specification sheets for front projection type data projectors and the form of specification sheets. It is also applicable to data projectors that have a video signal input port as well as a computer signal input port. It is not applicable to units for a rear-screen projection or with a video-input terminal alone.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 23270:2006 [R201x], Information technology - Programming languages - C (reaffirm a national adoption INCITS/ISO/IEC 23270:2006 [R2013])

Specifies the form and establishes the interpretation of programs written in the C# programming language. It specifies: The representation of C# programs; the syntax and constraints of the C# language; the semantic rules for interpreting C# programs; and the restrictions and limits imposed by a conforming implementation of C#.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 23271:2012 [R201x], Information technology - Common Language Infrastructure (CLI) Partition 1 to VI (reaffirm a national adoption INCITS/ISO/IEC 23271:2012 [2013])

Defines the Common Language Infrastructure (CLI) in which applications written in multiple high-level languages can be executed in different system environments without the need to rewrite those applications to take into consideration the unique characteristics of those environments. It consists of six partitions.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 24700:2005 [R201x], Quality and performance of office equipment that contains reused components (reaffirm a national adoption INCITS/ISO/IEC 24700:2005 [R2013])

Specifies product characteristics for use in an original equipment manufacturer's or authorized third-party's declaration of conformity to demonstrate that a marketed product that contains reused components performs equivalent to new, meeting equivalent to new component specifications and performance criteria, and continues to meet all the safety and environmental criteria required by responsibly built products. It is relevant to marketed products whose manufacturing and recovery processes result in the reuse of components.

Reflects the world's current approaches that yield products from many manufacturing processes including the reuse of components, with the equipment's warranties and guarantees playing an important role in market acceptance. In today's procurement processes, technical equipment definitions used by regulators must be addressed and, in that sense, ISO/IEC 24700:2004 will be useful in procurement and in the trade facilitation area, to communicate with regulators. ISO/IEC 24700:2004 specifically addresses office equipment. However, in the future, it may provide valuable directions for other industries and industrial sectors.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 24707:2007 [R201x], Information Technology - Common Logic (CL): A Framework for a Family of Logic-Based Languages (reaffirm a national adoption INCITS/ISO/IEC 24707:2007 [R2013])

Defines Common Logic: a first-order logic framework intended for information exchange and transmission. The heart of the framework is a complete abstract syntax and abstract semantics for Common Logic, which provides the basis for many different concrete syntactic forms, called dialects, which conform to the syntax and semantics. Common Logic has some novel features, chief among them being a syntax which is signature-free and permits “higher-order” constructions such as quantification over classes or relations while preserving a first-order model theory, and a semantics which allows theories to describe intentional entities such as classes or properties. It also fixes the meanings of a few conventions in widespread use, such as numerals to denote integers and quotation marks to denote character strings, and has provision for the use of datatypes and for naming, importing, and transmitting content on the World Wide Web. Defines the abstract syntax and semantics, and three concrete dialects are defined in the annexes. The three conforming dialects specified are Common Logic Interchange Format (CLIF), Conceptual Graph Interchange Format (CGIF), and XML for Common Logic (XCL).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 24712:2007 [R201x], Colour test pages for measurement of office equipment consumable yield (reaffirm a national adoption INCITS/ISO/IEC 24712:2007 [R2013])

Defines color test pages for the measurement of consumable yield. The test page suite includes four "customer"-type documents and one "diagnostic" page that is used to determine end of ink or toner consumable life. These pages can be used for electro-photographic, inkjet printers and multi-function devices that have a digital printing path, i.e., an all-in-one electrophotographic machine that has digital printing capabilities.

Provides a set of test pages in a common file format that would be used in the testing of consumable yield. The procedure for using these pages is detailed in ISO/IEC 19798 and ISO/IEC 24711. These pages are intended to represent some of the document types that are used in the office and home. They are not intended to represent special applications, such as photo printing.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 24735:2012 [201x], Information technology - Office equipment - Method for measuring digital copying productivity (reaffirm a national adoption INCITS/ISO/IEC 24735:2012 [2013])

Specifies a method for measuring the "productivity" of digital copying devices and multifunctional devices with various copying modes. It is applicable to digital copying devices and multifunctional devices equipped with automatic document feeder and collating function.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 29164:2011 [R201x], Information Technology - Biometrics - Embedded BioAPI (reaffirm a national adoption INCITS/ISO/IEC 29164:2011 [2013])

Provides a standard interface to hardware biometric modules designed to be integrated in embedded systems which can be constrained in memory and computational power. It specifies a full interface for such hardware-based biometric modules. This interface, called Embedded BioAPI, is defined by the specification of commands to be implemented by these modules. Such a specification is done on two levels. Low-level implementation is not covered. Security mechanisms, although considered, are outside of the scope, and are referred to in other relevant standards. In particular, key management is outside of the scope and is expected to be done prior to the application of it. Specifications and requirements for Embedded BioAPI subcomponents, or any kind of devices suitable to implement Embedded BioAPI, are also outside of the scope.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 26300:2006/COR 1:2010 [R201x], Information Technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/COR 1:2010 [2013])

Technical Corrigendum 1 to ISO/IEC 26300:2006.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 26300:2006/AM 1:2012 [R201x], Information Technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/Amd 1:2012)

Amendment 1 to ISO/IEC 26300:2006.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

New National Adoption

INCITS/ISO/IEC 26300:2006/COR 2:2011 [R201x], Information technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 2 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/COR 2:2011 [2013])

Technical Corrigendum 2 to ISO/IEC 26300:2006.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 305-1998 [R201x], Information technology - SCSI Enclosure Services (SES) (reaffirmation of INCITS 305-1998 [R2013])

The SCSI Enclosure Services (SES) command set documents the commands and parameters necessary to manage and sense the state of the power supplies, cooling devices, displays, indicators, individual drives, and other non-SCSI elements installed in an enclosure. The command set uses the SCSI SEND DIAGNOSTIC and RECEIVE DIAGNOSTIC RESULTS commands to obtain configuration information for the enclosure and to set and sense standard bits for each type of element that may be installed in the enclosure.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 306-1998 [R201x], Information technology - SCSI-3 Block Commands (SBC) (reaffirmation of INCITS 306-1998 [R2013])

Defines the command set extensions to facilitate operation of SCSI block devices. The clause(s) of this standard pertaining to the SCSI block device class, implemented in conjunction with the applicable clauses of the ANSI INCITS 301-199X, SCSI-3 Primary Commands (SPC), fully specify the standard command set for SCSI block devices.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 350-2003 [R201x], Information technology - SCSI Fibre Channel Protocol (FCP-2) (reaffirmation of INCITS 350-2003 [R2013])

Defines a second version of the SCSI Fibre Channel Protocol (FCP). This standard is a mapping protocol for applying the SCSI command set to Fibre Channel. This standard defines how the Fibre Channel services and the defined Information Units (IUs) are used to perform the services defined by the SCSI-3 Architecture Model-2 (SAM-2).

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 366-2003 [R201x], Information technology - SCSI Architecture Model-2 (SAM-2) (reaffirmation of INCITS 366-2003 [R2013])

Defines a reference model that specifies common behaviors for SCSI devices, and an abstract structure that is generic to all SCSI I/O system implementations.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 369-2003 [R201x], Information technology - SCSI Signal Modeling (SSM-2) (reaffirmation of INCITS 369-2003 [R2013])

This Standard establishes a common methodology for SCSI system signal modeling. Using this methodology, SCSI systems may be modeled accurately and consistently. This Standard establishes the requirements for the exchange of signal performance information between component suppliers, system integrators, and those carrying-out simulations. This Standard defines the acceptable methods for extracting the electrical and signal performance attributes of the constituent parts of a SCSI bus segment. This Standard establishes the acceptable methods for modeling these parts. It shall be used in conjunction with the requirements within the SCSI Parallel Interface (SPI-x) family of standards.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 375-2004 [R201x], Information technology - Serial Bus Protocol 3 (SBP-3) (reaffirmation of INCITS 375-2004 [R2013])

Specifies a protocol for the transport of commands, data and status between devices connected by Serial Bus, a memory-mapped split-transaction bus defined by ANSI/IEEE 1394-1995, Standard for a High-Performance Serial Bus, as amended by ANSI/IEEE 1394a-2000 and ANSI/IEEE 1394b-2002.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 380-2004 [R201x], Information technology - Small Computer System Interface (SCSI) - SCSI Stream Commands-2 (SSC-2) (reaffirmation of INCITS 380-2004 [R2013])

Defines the command set extensions to facilitate operation of the sequential-access-device-type member of the SCSI stream device class. The clauses of this standard, implemented in conjunction with the applicable clauses of the SCSI Primary Commands - 3 standard, fully specify the standard command set for the sequential-access device type member of the SCSI stream device class.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 382-2004 [R201x], Information technology - SCSI Media Changer Command Set, version 2 (SMC-2) (reaffirmation of INCITS 382-2004 [R2013])

Defines the command set extensions for operation of SCSI media changer devices, and command set extensions that allow media changer functions in other types of SCSI devices.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 383-2008 [R201x], Information Technology - Biometric Profile - Interoperability and Data Interchange - Biometrics Based Verification and Identification of Transportation Workers (reaffirmation of INCITS 383-2008 [R2013])

Specifies the application profile in support of identification and verification of transportation workers, through the use of Biometric data collected during enrollment, at local access points (i.e., doors or other controlled entrances) and across local boundaries within the defined area of control.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 398-2008 [R201x], Information technology - Common Biometric Exchange Formats Framework (CBEFF) (reaffirmation of INCITS 398 -2008 [R2013])

Specifies a common set of data elements necessary to support multiple biometric technologies and to promote interoperability of biometric-based application programs and systems by allowing for biometric data exchange. These common data elements can be placed in a single file, record, or data object used to exchange biometric information between different system components and applications. Specifies the biometric data elements.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 423.1-2008 [R201x], Information technology - Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards - Part 1: Generalized Conformance Testing Methodology (reaffirmation of INCITS 423.1-2008 [R2013])

Specifies the concepts, test types and conformance testing methodologies to test biometric data interchange records or computer algorithms that create biometric data interchange records. The biometric data interchange records are specified in the INCITS biometric data interchange format standards. It defines two types (A and B) and three levels (1, 2 and 3) of conformance testing, with a general description and methodology for each one.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 423.2-2008 [R201x], Information technology - Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards - Part 2: Conformance Testing Methodology for INCITS 378-2004, Finger Minutiae Format for Data Interchange (reaffirmation of INCITS 423.2-2008 [R2013])

Specifies the tests required to assure a vendor's application(s) or service(s) conform to the ANSI INCITS 378-2004 standard. For the purposes of this part of INCITS 423, of the two types (A and B) and three levels (1,2 and 3) of conformance testing as defined in INCITS 423.1, only Type A and Levels 1 and 2 are within the scope of this part.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 429-2008 [R201x], Information technology - Conformance Testing Methodology for INCITS 358-2002, BioAPI Specification (reaffirmation of INCITS 429-2008 [R2013])

Specifies the concepts, framework, test methods, and criteria to be achieved to claim conformity of Biometric Service Providers to the BioAPI specification. Defines requirements and guidelines for specifying conformance test suites and related test methods for measuring conformity of Biometric Service Provider components to the BioAPI specification, and defines procedures to be followed before, during, and after conformance testing.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 446-2008 [R201x], Information Technology - Identifying Attributes for Named Physical and Cultural Geographic Features (Except Roads and Highways) of the United States, Territories, Outlying Areas, and Freely Associated Areas, and the Waters of the Same to the Limit of the Twelve-Mile Statutory Zone (reaffirmation of INCITS 446:2008 [R2013])

This standard applies to selected named physical and cultural geographic features, geographic areas, and locational entities, except roads and highways, that are generally recognizable and locatable by name (i.e., have achieved some landmark status) and are of interest to any level of government and to the public for any purpose that would lead to the representation of the feature in printed or electronic maps and/or geographic information systems.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 451-2008 [R201x], Information technology - AT Attachments-8 ATA/ATAPI Architecture Model (ATA8-AAM) (reaffirmation of INCITS 451 -2008)

This standard describes the AT Attachment Architectural Model. The purpose of the architecture model is to provide a common basis for the coordination of ATA standards and to define those aspects of ATA system behavior that are independent of a particular technology and common to all implementations.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 504-1-2013 [R201x], Information Technology - Generic Identity Command Set - (GICS) - Part 1: Card Application Command Set (reaffirmation of INCITS 504-1-2013)

Defines a command set for base functionality addressing: Identity credential storage (Namespace standardization), authentication protocols, biometric verification, confidentiality protocols, and digital signatures.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 504-2-2013 [R201x], Information Technology - Generic Identity Command Set (GICS) - Part 2: Card Administrative Command Set (reaffirmation of INCITS 504-2-2013)

Defines a card administrative command set addressing: Card management, card lifecycle model, application management, key management (not addressed in other parts), related administrative management functions, and card enablement.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 504-4-2013 [R201x], Information Technology - Generic Identity Command Set (GICS) - Part 4: Card Application Profile Template (reaffirmation of INCITS 504-4-2013)

Defines the template to use to describe the data model of the GICS card application.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 505-2013 [R201x], Information Technology - SAS Protocol Layer - 2 (SPL-2) (reaffirmation of INCITS 505-2013)

The SCSI family of standards provides for many different transport protocols that define the rules for exchanging information between different SCSI devices. This standard defines the rules for exchanging information between SCSI devices using a serial interconnect.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 516-2013 [R201x], Information Technology - SCSI Stream Commands (SSC-4) (reaffirmation of INCITS 516-2013)

Defines the command-set extensions to facilitate operation of the sequential-access device type. This standard, implemented in conjunction with the requirements of the SCSI Architecture Model - 4 standard and the applicable clauses of the SCSI Primary Commands - 4 standard, fully specifies the standard command set for the sequential-access device type. The objectives of this standard are to provide the following: (a) permit an application client to communicate over a SCSI service delivery subsystem, with a logical unit that declares itself to be a sequential-access device in the PERIPHERAL DEVICE TYPE field of the standard INQUIRY data (see SPC-4); (b) define commands unique to the sequential-access device type; and (c) define commands to manage the operation of the sequential-access device type.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 528-2013 [R201x], Information Technology - Common Building Blocks Specification (reaffirmation of INCITS 528-2013)

The information in this specification should be sufficient for a provider or consumer of this data to unambiguously identify the classes, properties, methods, and values that shall be instantiated to subscribe, advertise, produce, or consume an indication using the DMTF Common Information Model (CIM) Schema.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 530-2013 [R201x], Information Technology - Architecture for Managed Computing Systems (reaffirmation of INCITS 530-2013)

The DMTF Common Information Model (CIM) Infrastructure is an approach to the management of systems and networks that applies the basic structuring and conceptualization techniques of the object-oriented paradigm. The approach uses a uniform modeling formalism that, together with the basic repertoire of object-oriented constructs. supports the cooperative development of an object-oriented schema across multiple organizations.

Single copy price: Free

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 531-2013 [R201x], Information Technology - Systems Management Discovery for Managed Computer Systems (reaffirmation of INCITS 531-2013)

This specification describes an efficient method for WBEM Clients to discover WBEM Servers and WBEM Server capabilities.

Single copy price: $60.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 330:2000/AM1:2003 [R201x], Information technology - Reduced Block Commands (RBC)- Amendment 1 (reaffirmation of INCITS 330:2000/AM1:2003 [R2013])

Amendment 1 to INCITS 330-2000.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Reaffirmation

INCITS 305:1998/AM1:2000 [R2013], Information technology - SCSI Enclosure Services (SES) - Amendment 1 (reaffirmation of INCITS 305:1998/AM1:2000 [R2013])

Amendment 1 to INCITS 305-1998.

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Stabilized Maintenance

INCITS 30-1998 [S201x], Representation of Calendar Date and Ordinal Date for Information Interchange (stabilized maintenance of INCITS 30 -1998 [R2013])

Representation of calendar date for interchange among data systems; it does not describe how the date is determined.

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Stabilized Maintenance

INCITS 310-1998 [S201x], Information technology - Representation of Time for Information Interchange (stabilized maintenance of INCITS 310 -1998 [R2013])

Presents representation of time for interchange among data systems; it does not describe how time is determined.

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Stabilized Maintenance

INCITS 367-2003 [S201x], Information technology - SCSI Parallel Interface - 5 (SPI-5) (stabilized maintenance of INCITS 367-2003 [R2013])

Defines the mechanical, electrical, timing, and protocol requirements of the SCSI parallel interface to allow conforming SCSI devices to interoperate. The SCSI parallel interface is a local I/O bus that may be operated over a wide range of transfer rates.

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Stabilized Maintenance

INCITS 368-2003 [S201x], Information technology - SCSI Passive Interconnect Performance (PIP) (stabilized maintenance of INCITS 368-2003 [R2013])

This standard expands the coverage to the complete assembled interconnect including connectors, uniform bulk cable, and non-uniform bulk cable. A syntax and framework is described for all types of passive interconnect. The methodology for performing the electrical measurements required to determine compliance with the performance requirements for bulk cable of several types, various assembled interconnects, and printed circuit board designs is included.

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Stabilized Maintenance

INCITS 419-2008 [S201X], Information technology - Fibre Channel Backbone (FC-BB-4) (stabilized maintenance of INCITS 419-2008 [R2013])

This standard consists of distinct Fibre Channel mappings resulting in the following models:

- FC-BB_IP (FC over TCP/IP backbone network);
- Transparent FC-BB consisting of:
- FC-BB_GFPT (FC over SONET/SDH/OTN/PDH backbone network using GFPT adaptation);
- FC-BB_PW (FC over MPLS network using PW adaptation) figure 1, figure 2, and figure 3 illustrate the scope and the major components of the FC-BB-4 models and its relationship to the IETF and ITU-T standards.

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Stabilized Maintenance

INCITS 437-2008 [S201x], Information technology - Fibre Channel - SATA Tunneling Protocol (FC-SATA) (stabilized maintenance of INCITS 437 -2008 [R2013])

This standard specifies a Fibre Channel mapping layer (i.e., an FC-4) to enable the use of Fibre Channel topologies to attach Serial ATA devices to ATA host systems. The Serial ATA interface is defined in the ATA/ATAPI-7 set of standards (ANSI INCITS 397-2005).

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Stabilized Maintenance

INCITS 438-2008 [S201x], Information Technology - Server Management Command Line Protocol (SM CLP) Specification (stabilized maintenance of INCITS 438-2008 [R2013])

This document lays out the general framework for the Server Management Command Line Protocol (SM CLP). This specification is intended to guide developers of implementations of the SM CLP and optionally be used as a reference by system administrators and other users of SM CLP implementations.

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Stabilized Maintenance

INCITS 443-2008 [S201x], Information Technology - Fibre Channel Storage Network PING (SNPing) (stabilized maintenance of INCITS 443 -2008 [R2013])

This standard defines a Command Line Notifies (CLI) for a storage networking management utility program that is equivalent to the IP Networking Ping function. The CLI may be directly useful to storage management personnel or it may be accessed via other applications (e.g., an SMI-S Client).

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Stabilized Maintenance

INCITS 449-2008 [S201x], Information Technology - Fabric Application Interface Standard (FAIS-2) (stabilized maintenance of INCITS 449-2008 [R2013])

This standard describes a set of functions and data structures in the C language abstracting the details of the FAIS_Platform from the implementation of a storage management application. This standard defines an API only in the C language. Functionally equivalent APIs may be implemented in other languages but these are beyond the scope of this standard. All functions provided to operate with function specifications defined in this standard shall use C-style calling conventions. This constraint does not limit the internal implementation of components of a FAIS_Provider.

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Stabilized Maintenance

INCITS/ISO/IEC 19757-4:2006 [S201x], Information Technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-Based Validation Dispatching Language (NVDL) (stabilized maintenance of INCITS/ISO/IEC 19757-4:2006 [R2013])

Specifies a Namespace-based Validation Dispatching Language (NVDL). An NVDL script controls the dispatching of elements or attributes in a given XML document to different validators, depending on the namespaces of the elements or attributes. An NVDL script also specifies which schemas are used by these validators. These schemas may be written in any schema languages, including those specified by ISO/IEC 19757.

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INCITS/ISO/IEC 3791:1976 [S201x], Office machines and data processing equipment - Keyboard layouts for numeric applications (stabilized maintenance of INCITS/ISO/IEC 3791:1976 [R2013])

Includes the basic arrangement of figures and symboles on keyboards intended for applications in which the data is mostly numeric. Reference: ISO 1092.

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Stabilized Maintenance

INCITS/ISO/IEC 18035:2003 [S201x], Information technology - Icon symbols and functions for controlling multimedia software applications (stabilized maintenance of INCITS/ISO/IEC 18035:2003 [R2013])

Defines a consistent set of icons and related functions that are represented by multimedia applications on a computer screen and that users interact with to control such applications. It describes controls applying to such functions as: Play, Pause, Stop, Rewind, Scan forward, Scan backward, Replay backward, Loop, Go to beginning, Go to previous, Go to next, Go to end, Set volume and Mute.

Each control icon is specified with the following: Primary function, Specific instance, Components, Graphic

Multimedia control icons enable users to invoke functions that act upon a pre-selected or default objects. Functions initiated by these icons may also be available via text commands on menus. Multimedia icons provide direct access to functions by graphically representing those text commands.

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Stabilized Maintenance

INCITS/ISO/IEC 23651:2003 [S201x], Information technology - 8 mm wide magnetic tape cartridge for information interchange - Helical scan recording - AIT-3 format (stabilized maintenance of INCITS/ISO/IEC 23651:2003 [R2013])

Specifies the physical and magnetic characteristics of an 8-mm wide magnetic tape cartridge containing a memory chip to enable physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format - called Advanced Intelligent Tape No. 3 (AIT-3 format) - thereby allowing data interchange between drives by means of such magnetic tape cartridges. Specifies two types of cartridge depending on the thickness of the magnetic tape contained in the case.

Information interchange between systems also requires, at a minimum, agreement between the interchange parties upon the interchange code(s) and the specifications of the structure and labeling of the information on the interchanged cartridge.

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Stabilized Maintenance

INCITS/ISO/IEC 23988:2007 [S201x], Information technology - A code of practice for the use of information technology (IT) in the delivery of assessments (stabilized maintenance of INCITS/ISO/IEC 23988:2007 [R2013])

Growth in the power and capabilities of information technology (IT) has led to the increasing use of IT to deliver, score, and record responses of tests and assessments in a wide range of educational and other contexts. Suitably used, IT delivery offers advantages of speed and efficiency, better feedback and improvements in validity and reliability, but its increased use has raised issues about the security and fairness of IT-delivered assessments, as well as resulting in a wide range of different practices.

ISO/IEC 23988:2007 provides a means of showing that the delivery and scoring of the assessment are fair and do not disadvantage some groups of candidates, for example, those who are not IT literate; showing that a summative assessment has been conducted under secure conditions and is the authentic work of the candidate; showing that the validity of the assessment is not compromised by IT delivery; providing evidence of the security of the assessment, which can be presented to regulatory and funding organizations (including regulatory bodies in education and training, in industry or in financial services); establishing a consistent approach to the regulations for delivery, which should be of benefit to assessment centers who deal with more than one assessment distributor; giving an assurance of quality to purchasers of "off-the-shelf" assessment software.

Gives recommendations on the use of IT to deliver assessments to candidates and to record and score their responses. Its scope is defined in terms of three dimensions: the types of assessment to which it applies, the stages of the assessment "life cycle" to which it applies, and its focus on specifically IT aspects.

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Stabilized Maintenance

INCITS/ISO/IEC 24703:2004 [S201x], Information technology - Participant Identifiers (stabilized maintenance of INCITS/ISO/IEC 24703:2004 [R2013])

Defines the datatype of identifiers that can be associated with participants in learning, education and training. Participants may be users, teachers, agents, groups, organizations, or institutions.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS 320-1998 [R2013], Information technology - Spatial Data Transfer (withdrawal of INCITS 320-1998 [R2013])

Provides a common mechanism for transferring digital spatial data among different systems, for sharing and integrating data from many diverse sources.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS 441-2008 [R2013], Information technology - Automation/Drive Interface - Commands-2 (ADC-2) (withdrawal of INCITS 441-2008 [R2013])

Media changer (automation) devices use a private communication link for monitoring and controlling the removable medium devices (drives) installed in them. The proposed Automation/Drive Interface - Commands-2 (ADC-2) standard specifies commands issued by automation devices to the drives.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS 447-2008 [R2013], Information technology - SCSI Architecture Model - 4 (SAM-4) (withdrawal of INCITS 447-2008 [R2013])

Defines a reference model that specifies common behaviors for SCSI devices, and an abstract structure that is generic to all SCSI I/O system implementations.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO 19119:2005, AM 1:2008 [R2013], Geographic information - Services - Amendment 1: Extensions of the service metadata model (withdrawal of INCITS/ISO 19119:2005, AM 1:2008 [R2013])

Amendment 1 to ISO/IEC 19119:2005.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 15944-1:2002 [R2013], Information technology - Business agreement semantic descriptive techniques - Part 1: Operational aspects of Open-edi for implementation (withdrawal of INCITS/ISO/IEC 15944-1:2002 [R2013])

Allows constraints (which include legal requirements, commercial and/or international trade and contract terms, public policy (e.g., privacy/data protection, product or service labeling, consumer protection), laws and regulations) to be defined and clearly integrated into Open-edi through the BOV. This means that terms and definitions in this standard serve as a common bridge among these different sets of business operational requirements allowing the integration of code sets and rules defining these requirements to be integrated into business processes electronically.

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Withdrawal

INCITS/ISO/IEC 15944-2:2006 [R2013], Information technology - Business Operational View - Part 2: Registration of scenarios and their components as business objects (withdrawal of INCITS/ISO/IEC 15944-2:2006 [R2013])

Integrated business operational view (BOV) The Open-edi Reference Model (ISO/IEC 14662, Section 4) states: “The intention is that the sending, by an Open-edi Party, of information from a scenario, conforming to Open-edi standards, shall allow the acceptance and processing of that information in the context of that scenario by one or more Open-edi parties by reference to the scenario and without the need for agreement.”

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Withdrawal

INCITS/ISO/IEC 15944-4:2007 [R2013], Information technology - Business Operational View - Part 4: Business transaction scenarios - Accounting and economic ontology (withdrawal of INCITS/ISO/IEC 15944-4:2007 [R2013])

Provides a set of UML class diagrams and conceptual explanations that circumscribe the Open-edi Business Transaction Ontology (OeBTO). It explains the mechanics of a business-transaction-state machine, the procedural component of an OeBTO, and the (internal) constraint component of OeBTO, its repository for business rules. Addresses collaborations among independent trading partners as defined in ISO/IEC 15944-1. Applies to both binary collaborations (buyer and seller) and mediated collaborations (buyer, seller, third-party). The ontological features described in this standard propose standards only for the Business Operational View (BOV), that is, the business aspects of business transactions, as they are defined in ISO/IEC 15944-1.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 15944-5:2008 [R2013], Information technology - Business Operational View - Part 5: Identification and referencing of requirements of jurisdictional domains as sources of external constraints (withdrawal of INCITS/ISO/IEC 15944-5:2008 [R2013])

Directed at being able to identify and reference laws and regulations impacting eBusiness scenarios and scenario components as external constraints. The primary source of such external constraints is jurisdictional domains.

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Withdrawal

INCITS/ISO/IEC 18028-4:2005 [R2014], Information technology - Security techniques - IT network security - Part 4: Securing remote access (withdrawal of INCITS/ISO/IEC 18028-4:2005 [R2014])

The general objectives of this standard are to extend the IT security management guidelines provided in ISO/IEC TR 13335 by detailing the specific operations and mechanisms needed to implement network security safeguards and controls in a wider range of network environments, providing a bridge between general IT security management issues and network security technical implementations.

Single copy price: $100.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 18028-5:2006 [R2013], Information technology - Security techniques - IT network security - Part 5: Securing communications across networks using virtual private networks (withdrawal of INCITS/ISO/IEC 18028-5:2006 [R2013])

Provides detailed direction with respect to the security aspects of using Virtual Private Network (VPN) connections to interconnect networks, and also to connect remote users to networks. It is aimed at those individuals responsible for the selection and implementation of the technical controls necessary to provide network security when using VPN connections, and for the subsequent network monitoring of VPN security thereafter. Provides an overview of VPNs, presents VPN security objectives, and summarizes VPN security requirements. It gives guidance on the selection of secure VPNs, on the implementation of secure VPNs, and on the network monitoring of VPN security. It also provides information on typical technologies and protocols used by VPNs

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 19785-3:2007 [R2013], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications (withdrawal of INCITS/ISO/IEC 19785-3:2007 [R2013])

Specifies several patron formats that conform to the requirements of ISO/IEC 19785-1.

Single copy price: $60.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications - Amendment 1 (withdrawal of INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015])

Amendment 1 to ISO/IEC 19785-3:2007.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 8484:2007 [R2013], Information technology - Magnetic stripes on savings books (withdrawal of INCITS/ISO/IEC 8484:2007 [R2013])

Specifies the characteristics and location of a magnetic stripe on a savings book and the use of such savings books for international interchange. Compatibility with international interchange systems is provided through the requirements of ISO/IEC 8484:2014, enabling a savings book with a magnetic stripe to be read and possibly encoded in a device that is compatible with reading identification cards used in international interchange.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 13250:2003 [R2013], Information technology - SGML applications - Topic maps (withdrawal of INCITS/ISO/IEC 13250:2003 [R2013])

Topic maps enable multiple, concurrent views of sets of information objects. The structural nature of these views is unconstrained; they may reflect an object-oriented approach, or they may be relational, hierarchical, ordered, unordered, or any combination of the foregoing. Moreover, an unlimited number of topic maps may be overlaid on a given set of information resources.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 15775:1999 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application (withdrawal of INCITS/ISO/IEC 15775:1999 [R2013])

Applies to implementation and application of test charts for color copying machines. Serves for testing of reproduction properties of color copying machines, in order to help to recognize the possibilities and limits of various machines and for their comparison. To use, make copies of at least two test charts (one achromatic and one chromatic) out of eight test charts using the device to be tested. The resulting copies shall be examined visually and may be compared with the original test charts. Objective measurements may be made for these copies. Eight ISO-test charts, four in halftone (offset reproduction) and four in continuous tone (photographic reproduction), belonging to this International Standard may be produced by different manufacturers. Information about where to obtain test chart layout and colorimetric Lab data to produce the charts may be found in Annex M.

Single copy price: $60.00

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 17799:2005 [2009], Information technology - Security techniques - Code of practice for information security management (withdrawal of INCITS/ISO/IEC 17799:2005 [2009])

Establishes guidelines and general principles for initiating, implementing, maintaining, and improving information security management in an organization. The objectives outlined provide general guidance on the commonly accepted goals of information security management. ISO/IEC 17799:2005 contains best practices of control objectives and controls in the following areas of information security management.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 18043:2006 [R2013], Information technology - Security techniques - Selection, deployment and operations of intrusion detection systems (withdrawal of INCITS/ISO/IEC 18043:2006 [R2013])

Provides guidelines to assist organizations in preparing to deploy Intrusion Detection System (IDS). In particular, it addresses the selection, deployment and operations of IDS. It also provides background information from which these guidelines are derived.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 15775/AM1:2005 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application - Amendment 1 (withdrawal of INCITS/ISO/IEC 15775/AM1:2005 [R2013])

Amendment 1 to ISO/IEC 15775:1999.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)

Withdrawal

INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009], Information technology - Security techniques - Code of practice for information security management - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009])

Technical Corrigendum 1 to ISO/IEC 17799:2005.

Single copy price: $60.00

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UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 61724-1-201x, Standard for Photovoltaic System Performance - Part 1: Monitoring (national adoption with modifications of IEC 61724-1)

(1) First Edition of the UL IEC-Based Standard for Photovoltaic System Performance – Part 1: Monitoring, UL 61724-1.

Single copy price: Free

Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx

Send comments (with copy to psa@ansi.org) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 61724-2-201x, Standard for Specification for Photovoltaic system performance - Part 2: Capacity evaluation method (identical national adoption of IEC 61724-2)

(1) First edition of the UL IEC-based Technical Specification for Photovoltaic system performance - Part 2: Capacity evaluation method, UL 61724-2, with no U.S. national differences.

Single copy price: Free

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Send comments (with copy to psa@ansi.org) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 61724-3-201x, Standard for Photovoltaic system performance - Part 3: Energy evaluation method (identical national adoption of IEC 61724-3)

(1) First edition of the UL IEC-based Technical Specification for Photovoltaic System Performance - Part 3: Energy evaluation method, UL 61724 -3, with no U.S. national differences.

Single copy price: Free

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Send comments (with copy to psa@ansi.org) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

PMI (Project Management Institute)

ANSI/PMI 08-004-2013, Organizational Project Management Maturity Model (OPM (R)) - Third Edition

Questions may be directed to: Lorna Scheel, (313) 404-3507, lorna.scheel@pmi.org

Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner.

ASSP (ASC A10) (American Society of Safety Professionals)

Office: 520 N. Northwest Highway
Park Ridge, IL 60068

Contact: *Tim Fisher*

Phone: (847) 768-3411

E-mail: TFisher@ASSP.org

BSR/ASSE A10.40-2007 (R201x), Reduction of Musculoskeletal Problems in Construction (reaffirmation of ANSI/ASSE A10.40-2007 (R2013))

BSR/ASSP A10.29-201X, Pre-Planning, Installation, Inspection and Use of Fall Protection for Construction and Demolition Operations (new standard)

ISA (International Society of Automation)

Office: 67 Alexander Drive
P O Box 12277
Research Triangle Pk, NC 27709

Contact: *Rob Breiner*

Phone: (919) 990-9257

E-mail: rbreiner@isa.org

BSR/ISA 62453-41-201x, Field Device Tool (FDT) Interface Specification - Part 41: Object model integration profile - Common object model (national adoption with modifications of IEC 62453-41: 2016)

BSR/ISA 62453-42-201x, Field Device Tool (FDT) Interface Specification - Part 42: Object model integration profile - Common Language Infrastructure (national adoption with modifications of IEC TR 62453-42: 2016)

BSR/ISA 62453-1 (103.00.01)-201x, Field device tool (FDT) interface specification - Part 1: Overview and guidance (national adoption of IEC 62453-1 with modifications and revision of ANSI/ISA 62453-1 (103.00.01)-2011)

BSR/ISA 62453-2 (103.00.02)-201x, Field device tool (FDT) interface specification - Part 2: Concepts and detailed description (national adoption of IEC 62453-2 with modifications and revision of ANSI/ISA 62453-2 (103.00.02)-2011)

BSR/ISA 62453-301 (103.00.03)-201x, Field device tool (FDT) interface specification - Part 301: Communication profile integration - IEC 61784 CPF 1 (national adoption of IEC 62453-301 with modifications and revision of ANSI/ISA 62453-301 (103.00.03)-2011)

BSR/ISA 62453-302 (103.00.04)-201x, Field device tool (FDT) interface specification - Part 302: Communication profile integration - IEC 61784 CPF 2 (national adoption of IEC 62453-302 with modifications and revision of ANSI/ISA 62453-302 (103.00.04)-2010)

BSR/ISA 62453-309 (103.00.08)-201x, Field device tool (FDT) interface specification - Part 309: Communication profile integration - IEC 61784 CPF 9 (national adoption of IEC 62453-309 with modifications and revision of ANSI/ISA 62453-309 (103.00.08)-2011)

ITI (INCITS) (InterNational Committee for Information Technology Standards)

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INCITS 30-1998 [S201x], Representation of Calendar Date and Ordinal Date for Information Interchange (stabilized maintenance of INCITS 30-1998 [R2013])

INCITS 305-1998 [R201x], Information technology - SCSI Enclosure Services (SES) (reaffirmation of INCITS 305-1998 [R2013])

INCITS 306-1998 [R201x], Information technology - SCSI-3 Block Commands (SBC) (reaffirmation of INCITS 306-1998 [R2013])

INCITS 310-1998 [S201x], Information technology - Representation of Time for Information Interchange (stabilized maintenance of INCITS 310-1998 [R2013])

INCITS 320-1998 [R2013], Information technology - Spatial Data Transfer (withdrawal of INCITS 320-1998 [R2013])

INCITS 350-2003 [R201x], Information technology - SCSI Fibre Channel Protocol (FCP-2) (reaffirmation of INCITS 350-2003 [R2013])

INCITS 366-2003 [R201x], Information technology - SCSI Architecture Model-2 (SAM-2) (reaffirmation of INCITS 366-2003 [R2013])

INCITS 367-2003 [S201x], Information technology - SCSI Parallel Interface - 5 (SPI-5) (stabilized maintenance of INCITS 367-2003 [R2013])

INCITS 368-2003 [S201x], Information Technology - SCSI Passive Interconnect Performance (PIP) (stabilized maintenance of INCITS 368-2003 [R2013])

INCITS 369-2003 [R201x], Information Technology - SCSI Signal Modeling (SSM-2) (reaffirmation of INCITS 369-2003 [R2013])

INCITS 375-2004 [R201x], Information Technology - Serial Bus Protocol 3 (SBP-3) (reaffirmation of INCITS 375-2004 [R2013])

INCITS 380-2004 [R201x], Information Technology - Small Computer System Interface (SCSI) - SCSI Stream Commands-2 (SSC-2) (reaffirmation of INCITS 380-2004 [R2013])

INCITS 382-2004 [R201x], Information Technology - SCSI Media Changer Command Set, version 2 (SMC-2) (reaffirmation of INCITS 382-2004 [R2013])

INCITS 383-2008 [R201x], Information Technology - Biometric Profile - Interoperability and Data Interchange - Biometrics-Based Verification and Identification of Transportation Workers (reaffirmation of INCITS 383-2008 [R2013])

INCITS 398-2008 [R201x], Information Technology - Common Biometric Exchange Formats Framework (CBEFF) (reaffirmation of INCITS 398 -2008 [R2013])

INCITS 419-2008 [S201X], Information Technology - Fibre Channel Backbone (FC-BB-4) (stabilized maintenance of INCITS 419-2008 [R2013])

INCITS 423.1-2008 [R201x], Information Technology - Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards - Part 1: Generalized Conformance Testing Methodology (reaffirmation of INCITS 423.1-2008 [R2013])

INCITS 423.2-2008 [R201x], Information Technology - Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards - Part 2: Conformance Testing Methodology for INCITS 378-2004, Finger Minutiae Format for Data Interchange (reaffirmation of INCITS 423.2-2008 [R2013])

INCITS 429-2008 [R201x], Information Technology - Conformance Testing Methodology for INCITS 358-2002, BioAPI Specification (reaffirmation of INCITS 429-2008 [R2013])

INCITS 437-2008 [S201x], Information Technology - Fibre Channel - SATA Tunneling Protocol (FC-SATA) (stabilized maintenance of INCITS 437-2008 [R2013])

INCITS 438-2008 [S201x], Information Technology - Server Management Command Line Protocol (SM CLP) Specification (stabilized maintenance of INCITS 438-2008 [R2013])

INCITS 441-2008 [R2013], Information Technology - Automation/Drive Interface - Commands-2 (ADC-2) (withdrawal of INCITS 441-2008 [R2013])

INCITS 443-2008 [S201x], Information Technology - Fibre Channel Storage Network PING (SNPing) (stabilized maintenance of INCITS 443-2008 [R2013])

INCITS 446-2008 [R201x], Information Technology - Identifying Attributes for Named Physical and Cultural Geographic Features (Except Roads and Highways) of the United States, Territories, Outlying Areas, and Freely Associated Areas, and the Waters of the Same to the Limit of the Twelve-Mile Statutory Zone (reaffirmation of INCITS 446:2008 [R2013])

INCITS 447-2008 [R2013], Information Technology - SCSI Architecture Model - 4 (SAM-4) (withdrawal of INCITS 447-2008 [R2013])

INCITS 449-2008 [S201x], Information Technology - Fabric Application Interface Standard (FAIS-2) (stabilized maintenance of INCITS 449 -2008 [R2013])

INCITS 451-2008 [R201x], Information Technology - AT Attachments-8 ATA/ATAPI Architecture Model (ATA8-AAM) (reaffirmation of INCITS 451-2008)

INCITS 504-1-2013 [R201x], Information Technology - Generic Identity Command Set (GICS) - Part 1: Card Application Command Set (reaffirmation of INCITS 504-1-2013)

INCITS 504-2-2013 [R201x], Information Technology - Generic Identity Command Set (GICS) - Part 2: Card Administrative Command Set (reaffirmation of INCITS 504-2-2013)

INCITS 504-4-2013 [R201x], Information Technology - Generic Identity Command Set (GICS) - Part 4: Card Application Profile Template (reaffirmation of INCITS 504-4-2013)

INCITS 505-2013 [R201x], Information technology - SAS Protocol Layer - 2 (SPL-2) (reaffirmation of INCITS 505-2013)

INCITS 516-2013 [R201x], Information technology - SCSI Stream Commands (SSC-4) (reaffirmation of INCITS 516-2013)

INCITS 528-2013 [R201x], Information Technology - Common Building Blocks Specification (reaffirmation of INCITS 528-2013)

INCITS 530-2013 [R201x], Information Technology - Architecture for Managed Computing Systems (reaffirmation of INCITS 530-2013)

INCITS 531-2013 [R201x], Information Technology - Systems Management Discovery for Managed Computer Systems (reaffirmation of INCITS 531-2013)

INCITS 305:1998/AM1:2000 [R201x], Information Technology - SCSI Enclosure Services (SES) - Amendment 1 (reaffirmation of INCITS 305:1998/AM1:2000 [R2013])

INCITS 330:2000/AM1:2003 [R201x], Information technology - Reduced Block Commands (RBC) - Amendment 1 (reaffirmation of INCITS 330:2000/AM1:2003 [R2013])

INCITS/ISO 19144-2:2012 [201x], Geographic Information - Classification Systems - Part 2: Land Cover Meta Language (LCML) (reaffirm a national adoption INCITS/ISO 19144-2:2012 [2013])

INCITS/ISO 19144-1:2009/COR 1:2012 [201x], Geographic information - Classification systems - Part 1: Classification system structure - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO 19144-1-2009/Cor 1-2012)

INCITS/ISO 962:1974 [R201x], Information Processing - Implementation of the 7-Bit Coded Character Set and its 7-Bit and 8-Bit Extensions on 9-Track 12,7 mm (0.5 in) Magnetic Tape (reaffirm a national adoption INCITS/ISO 962:1974 [R2013])

INCITS/ISO 2033:1983 [R201x], Information Processing - Coding of Machine Readable Characters (MICR and OCR) (reaffirm a national adoption INCITS/ISO 2033:1983 [R2013])

INCITS/ISO 3275:1974 [R201x], Information processing - Implementation of the 7-bit coded character set and its 7-bit and 8-bit extensions on 3,81 mm magnetic cassette for data interchange (reaffirm a national adoption INCITS/ISO 3275:1974 [R2013])

INCITS/ISO 6586:1980 [R201x], Data processing - Implementation of the ISO 7-bit and 8-bit coded character sets on punched cards (reaffirm a national adoption INCITS/ISO 6586:1980 [R2013])

INCITS/ISO 6709:2008 [R201x], Standard representation of geographic point location by coordinates (reaffirm a national adoption INCITS/ISO 6709:2008 [R2013])

INCITS/ISO 9036:1987 [R201x], Information processing - Arabic 7-bit coded character set for information interchange (reaffirm a national adoption INCITS/ISO 9036:1987 [R2013])

INCITS/ISO 19107:2003 [R201x], Geographic information - Spatial schema (reaffirm a national adoption INCITS/ISO 19107:2003 [R2013])

INCITS/ISO 19108:2002 [R201x], Geographic information - Temporal schema (reaffirm a national adoption INCITS/ISO 19108:2002 [R2013])

INCITS/ISO 19117:2012 [R201x], Geographic information - Portrayal (reaffirm a national adoption INCITS/ISO 19117:2012 [R2013])

INCITS/ISO 19132:2007 [R201x], Geographic information - Location-based services - Reference model (reaffirm a national adoption INCITS/ISO 19132:2007 [R2013])

INCITS/ISO 19141:2008 [R201x], Geographic information - Schema for moving features (reaffirm a national adoption INCITS/ISO 19141:2008 [R2013])

INCITS/ISO 19119:2005, AM 1:2008 [R2013], Geographic information - Services - Amendment 1: Extensions of the service metadata model (withdrawal of INCITS/ISO 19119:2005, AM 1:2008 [R2013])

INCITS/ISO/IEC 1539-1:2010 [R201x], Information technology - Programming languages - Fortran - Part 1: Base language (reaffirm a national adoption INCITS/ISO/IEC 1539-1:2010 [2013])

INCITS/ISO/IEC 7501-2:1997 [R201x], Identification Cards - Machine Readable Travel Documents - Part 2: Machine Readable Visa (reaffirm a national adoption INCITS/ISO/IEC 7501-2:1997 [R2013])

INCITS/ISO/IEC 7812-2:2007 [R201x], Identification Cards - Identification of Issuers - Part 2: Application and Registration Procedures (reaffirm a national adoption INCITS/ISO/IEC 7812 -2:2007 [R2013])

INCITS/ISO/IEC 7816-2:2007 [R201x], Identification cards - Integrated circuit cards - Part 2: Cards with contacts - Dimensions and location of the contacts (reaffirm a national adoption INCITS/ISO/IEC 7816 -2:2007 [R2013])

INCITS/ISO/IEC 7816-12:2005 [R201x], Identification cards - Integrated circuit cards - Part 12: Cards with contacts - USB electrical interface and operating procedures (reaffirm a national adoption INCITS/ISO/IEC 7816-12:2005 [R2013])

INCITS/ISO/IEC 7816-13:2007 [R201x], Identification cards - Integrated circuit cards - Part 13: Commands for application management in multi-application environment (reaffirm a national adoption INCITS/ISO/IEC 7816-13:2007 [R2013])

INCITS/ISO/IEC 8859-1:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1 (reaffirm a national adoption INCITS/ISO/IEC 8859-1:1998 [R2013])

INCITS/ISO/IEC 8859-4:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 4: Latin alphabet No. 4 (reaffirm a national adoption INCITS/ISO/IEC 8859-4:1998 [R2013])

INCITS/ISO/IEC 8859-7:2003 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 7: Latin/Greek alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859-7:2003 [R2013])

INCITS/ISO/IEC 8859-9:1999 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 9: Latin alphabet No. 5 (reaffirm a national adoption INCITS/ISO/IEC 8859-9:1999 [R2013])

INCITS/ISO/IEC 8859-10:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 10: Latin alphabet No. 6 (reaffirm a national adoption INCITS/ISO/IEC 8859-10:1998 [R2013])

INCITS/ISO/IEC 8859-11:2001 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 11: Latin/Thai alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859-11:2001 [R2013])

INCITS/ISO/IEC 8859-13:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 13: Latin alphabet No. 7 (reaffirm a national adoption INCITS/ISO/IEC 8859-13:1998 [R2013])

INCITS/ISO/IEC 8859-14:1998 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 14: Latin alphabet No. 8 (Celtic) (reaffirm a national adoption INCITS/ISO/IEC 8859-14:1998 [R2013])

INCITS/ISO/IEC 8859-15:1999 [R201x], Information technology - 8-bit single-byte coded graphic character sets - Part 15: Latin alphabet No. 9 (reaffirm a national adoption INCITS/ISO/IEC 8859-15:1999 [R2013])

INCITS/ISO/IEC 9281-1:1990 [R201x], Information technology - Picture coding methods - Part 1: Identification (reaffirm a national adoption INCITS/ISO/IEC 9281-1:1990 [R2013])

INCITS/ISO/IEC 9281-2:1990 [R201x], Information technology - Picture coding methods - Part 2: Procedure for registration (reaffirm a national adoption INCITS/ISO/IEC 9281-2:1990 [R2013])

INCITS/ISO/IEC 9282-1:1988 [R201x], Information processing - Coded representation of pictures - Part 1: Encoding principles for picture representation in a 7-bit or 8-bit environment (reaffirm a national adoption INCITS/ISO/IEC 9282-1:1988 [R2013])

INCITS/ISO/IEC 9541-1:2012 [R201x], Information technology - Font information interchange - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 9541-1:2012 [2013])

INCITS/ISO/IEC 9541-2:2012 [R201x], Information technology - Font information interchange - Part 2: Interchange format (reaffirm a national adoption INCITS/ISO/IEC 9541-2:2012 [2013])

INCITS/ISO/IEC 9541-3:2012 [R201x], Information technology - Font information interchange - Part 3: Glyph shape representation (reaffirm a national adoption INCITS/ISO/IEC 9541-3:2012 [2013])

INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [R201x], Information technology - Font information interchange - Part 4: Harmonization to Open Font Format - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [2013])

INCITS/ISO/IEC 9593-4:1991/AM 2:1998 [R201x], Information technology - Computer graphics - Programmers Hierarchical Interactive Graphics System (PHIGS) language bindings - Part 4: C - Amendment 2 (reaffirm a national adoption INCITS/ISO/IEC 9593 -4:1991 AM2:2008 [R2013])

INCITS/ISO/IEC 9594-9:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 9: Replication (identical national adoption of ISO/IEC 9594-9:2017 and revision of INCITS/ISO/IEC 9594-9:2008 [2013])

INCITS/ISO/IEC 9796-3:2006 [R201x], Information Technology - Security Techniques - Digital Signature Schemes Giving Message Recovery - Part 3: Discrete Logarithm Based Mechanisms (reaffirm a national adoption INCITS/ISO/IEC 9796-3:2006 [R2013])

INCITS/ISO/IEC 10175-1:1996 [R201x], Information Technology - Text and Office Systems - Document Printing Application (DPA) - Part 1: Abstract Service Definition and Procedures (reaffirm a national adoption INCITS/ISO/IEC 10175-1:1996 [R2013])

INCITS/ISO/IEC 10175-2:1996 [R201x], Information Technology - Text and Office Systems - Document Printing Application (DPA) - Part 2: Protocol Specification (reaffirm a national adoption INCITS/ISO/IEC 10175-2:1996 [R2013])

INCITS/ISO/IEC 10536-1:2000 [R201x], Identification cards - Contactless integrated circuit(s) cards - Close coupled cards - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 10536-1:2000 [R2013])

INCITS/ISO/IEC 10536-3:1996 [R201x], Identification Cards - Contactless Integrated Circuit(s) Cards - Part 3: Electronic Signals and Reset Procedures (reaffirm a national adoption INCITS/ISO/IEC 10536-3:1996 [R2013])

INCITS/ISO/IEC 10918-1:1994 [R201x], Information Technology - Digital Compression and Coding of Continuous-Tone Still Images: Requirements and Guidelines (reaffirm a national adoption INCITS/ISO/IEC 10918-1:1994 [R2013])

INCITS/ISO/IEC 10918-2:1995 [R201x], Information technology - Digital compression and coding of continuous-tone still images: Compliance testing (reaffirm a national adoption INCITS/ISO/IEC 10918-2:1995 [R2013])

INCITS/ISO/IEC 10918-3:1997 [R201x], Information technology - Digital compression and coding of continuous-tone still images: Extensions (reaffirm a national adoption INCITS/ISO/IEC 10918-3:1997 [R2013])

INCITS/ISO/IEC 11172-1:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 1: Systems (reaffirm a national adoption INCITS/ISO/IEC 11172-1:1993 [R2013])

INCITS/ISO/IEC 11172-2:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 2: Video (reaffirm a national adoption INCITS/ISO/IEC 11172-2:1993 [R2013])

INCITS/ISO/IEC 11172-3:1993 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 3: Audio (reaffirm a national adoption INCITS/ISO/IEC 11172-3:1993 [R2013])

INCITS/ISO/IEC 11172-4:1995 [R201x], Information Technology - Coding of Moving Pictures and Associated Audio for Digital Storage Media at up to about 1,5 Mbit/s - Part 4: Compliance Testing (reaffirm a national adoption INCITS/ISO/IEC 11172-4:1995 [R2013])

INCITS/ISO/IEC 11770-1:2010 [R201x], Information technology - Security techniques - Key management - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 11770-1:2010 [2013])

INCITS/ISO/IEC 13250-6:2010 [R201x], Information Technology - Topic Maps - Part 6: Compact Syntax (reaffirm a national adoption INCITS/ISO/IEC 13250-6:2010 [2013])

INCITS/ISO/IEC 14495-2:2003 [R201x], Information technology - Lossless and near-lossless compression of continuous-tone still images - Part 2: Extensions (reaffirm a national adoption INCITS/ISO/IEC 14495-2:2003 [R2013])

INCITS/ISO/IEC 14496-5:2001 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software (Ed 2) (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001 [R2013])

INCITS/ISO/IEC 14496-14:2003 [R201x], Information technology - Coding of audio-visual objects - Part 14: MP4 file format (reaffirm a national adoption INCITS/ISO/IEC 14496-14:2003 [R2013])

INCITS/ISO/IEC 14496-5:2001/AM 1:2002 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 1: Reference software for MPEG-4 (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001 AM 1:2002 [R2013])

INCITS/ISO/IEC 14496-5:2001/AM 2:2003 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 2: MPEG-4 reference software extensions for XMT and media nodes (reaffirm a national adoption INCITS/ISO/IEC 14496-5:2001/AM 2:2003 [R2013])

INCITS/ISO/IEC 15408-2:2008 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 2: Security functional components (reaffirm a national adoption INCITS/ISO/IEC 15408-2:2008 [2013])

INCITS/ISO/IEC 15408-3:2008 [R201x], Information technology - Security techniques - Evaluation criteria for IT security - Part 3: Security assurance components (reaffirm a national adoption INCITS/ISO/IEC 15408-3:2008 [2013])

INCITS/ISO/IEC 15444-2:2004 [R201x], Information technology - JPEG 2000 image coding system - Part 2: Extensions (reaffirm a national adoption INCITS/ISO/IEC 15444-2:2004 [R2013])

INCITS/ISO/IEC 15444-3:2007 [R201x], Information technology - JPEG 2000 image coding system - Part 3: Motion JPEG 2000 (reaffirm a national adoption INCITS/ISO/IEC 15444-3:2007 [R2013])

INCITS/ISO/IEC 15444-4:2004 [R201x], Information technology - JPEG 2000 image coding system - Part 4: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 15444-4:2004 [R2013])

INCITS/ISO/IEC 15444-2:2004/AM2:2006 [R201x], Information technology - JPEG 2000 image coding system - Part 2: Extensions - Amendment 2: Extended capabilities marker segment (reaffirm a national adoption INCITS/ISO/IEC 15444-2:2004/AM2:2006 [R2013])

INCITS/ISO/IEC 15457-2:2007 [R201x], Identification cards - Thin flexible cards - Part 2: Magnetic recording technique (reaffirm a national adoption INCITS/ISO/IEC 15457-2:2007 [R2013])

INCITS/ISO/IEC 15938-5:2003 [R201x], Information technology - Multimedia content description interface - Part 5: Multimedia description schemes (reaffirm a national adoption INCITS/ISO/IEC 15938-5:2003 [R2013])

INCITS/ISO/IEC 15938-6:2003 [R201x], Information technology - Multimedia content description interface - Part 6: Reference software (reaffirm a national adoption INCITS/ISO/IEC 15938-6:2003 [R2013])

INCITS/ISO/IEC 15938-7:2003 [R201x], Information technology - Multimedia content description interface - Part 7: Conformance testing (reaffirm a national adoption INCITS/ISO/IEC 15938-7:2003 [R2013])

INCITS/ISO/IEC 15944-1:2002 [R2013], Information technology - Business agreement semantic descriptive techniques - Part 1: Operational aspects of Open-edi for implementation (withdrawal of INCITS/ISO/IEC 15944-1:2002 [R2013])

INCITS/ISO/IEC 15944-2:2006 [R2013], Information technology - Business Operational View - Part 2: Registration of scenarios and their components as business objects (withdrawal of INCITS/ISO/IEC 15944-2:2006 [R2013])

INCITS/ISO/IEC 15944-4:2007 [R2013], Information technology - Business Operational View - Part 4: Business transaction scenarios - Accounting and economic ontology (withdrawal of INCITS/ISO/IEC 15944-4:2007 [R2013])

INCITS/ISO/IEC 15944-5:2008 [R2013], Information technology - Business Operational View - Part 5: Identification and referencing of requirements of jurisdictional domains as sources of external constraints (withdrawal of INCITS/ISO/IEC 15944-5:2008 [R2013])

INCITS/ISO/IEC 18028-4:2005 [R2014], Information technology - Security techniques - IT network security - Part 4: Securing remote access (withdrawal of INCITS/ISO/IEC 18028-4:2005 [R2014])

INCITS/ISO/IEC 18028-5:2006 [R2013], Information technology - Security techniques - IT network security - Part 5: Securing communications across networks using virtual private networks (withdrawal of INCITS/ISO/IEC 18028-5:2006 [R2013])

INCITS/ISO/IEC 18033-2:2006 [R201x], Information technology - Security techniques - Encryption algorithms - Part 2: Asymmetric ciphers (reaffirm a national adoption INCITS/ISO/IEC 18033-2:2006 [R2013])

INCITS/ISO/IEC 19757-4:2006 [S201x], Information Technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-based Validation Dispatching Language (NVDL) (stabilized maintenance of INCITS/ISO/IEC 19757-4:2006 [R2013])

INCITS/ISO/IEC 19757-5:2011 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 5: Extensible Datatypes (reaffirm a national adoption INCITS/ISO/IEC 19757 -5:2011 [2013])

INCITS/ISO/IEC 19757-7:2009 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 7: Character Repertoire Description Language (CREPDL) (reaffirm a national adoption INCITS/ISO/IEC 19757-7:2009 [2013)

INCITS/ISO/IEC 19757-11:2011 [R201x], Information technology - Document Schema Definition Languages (DSDL) - Part 11: Schema association (reaffirm a national adoption INCITS/ISO/IEC 19757 -11:2011 [2013])

INCITS/ISO/IEC 19757-8:2008/COR 1:2011 [R201x], Information Technology - Document Schema Definition Languages (DSDL) - Part 8: Document Semantics Renaming Language (DSRL) - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19757 -8:2008/COR 1:2011 [2013])

INCITS/ISO/IEC 19777-1:2006 [R201x], Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 1: ECMA script (reaffirm a national adoption INCITS/ISO/IEC 19777-1:2006 [R2013])

INCITS/ISO/IEC 19777-2:2006 [R201x], Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 2: Java (reaffirm a national adoption INCITS/ISO/IEC 19777-2:2006 [R2013])

INCITS/ISO/IEC 19784-2:2007 [R201x], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface (reaffirm a national adoption INCITS/ISO/IEC 19784-2:2007 [R2013])

INCITS/ISO/IEC 19784-2:2007/COR 1:2011 [R201x], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784-2:2007/COR 1:2013)

INCITS/ISO/IEC 19784-4:2011/COR1:2013 [R201x], Information technology - Biometric application programming interface - Part 4: Biometric sensor function provider interface - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784-4:2011/Cor 1:2013)

INCITS/ISO/IEC 19785-2:2006 [R201x], Information Technology - Common Biometric Exchange Formats Framework - Part 2: Procedures for the Operation of the Biometric Registration Authority (reaffirm a national adoption INCITS/ISO/IEC 19785-2:2006 [R2013])

INCITS/ISO/IEC 19785-3:2007 [R2013], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications (withdrawal of INCITS/ISO/IEC 19785-3:2007 [R2013])

INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications - Amendment 1 (withdrawal of INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015])

INCITS/ISO/IEC 19794-1:2011 [R201x], Information technology - Biometric data interchange formats - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 19794-1:2011 [2013])

INCITS/ISO/IEC 19794-2:2011 [R201x], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data (reaffirm a national adoption INCITS/ISO/IEC 19794-2:2011 [2013])

INCITS/ISO/IEC 19794-4:2011 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011 [2013])

INCITS/ISO/IEC 19794-5:2011 [R201x], Information technology - Biometric data interchange formats - Part 5: Face image data (reaffirm a national adoption INCITS/ISO/IEC 19794-5:2011 [2013])

INCITS/ISO/IEC 19794-6:2011 [R201x], Information technology - Biometric data interchange formats - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 19794-6:2011 [2013])

INCITS/ISO/IEC 19794-9:2011 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular image data (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011 [2013])

INCITS/ISO/IEC 19794-11:2013 [R201x], Information technology - Biometric data interchange formats - Part 11: Signature/sign processed dynamic data (reaffirm a national adoption INCITS/ISO/IEC 19794-11:2013 [2013])

INCITS/ISO/IEC 19794-14:2013 [R201x], Information technology - Biometric data interchange formats - Part 14: DNA data (reaffirm a national adoption INCITS/ISO/IEC 19794-14:2013 [2013])

INCITS/ISO/IEC 19794-4:2005/COR1:2011 [R201x], Information technology - Biometric data interchange formats - Part 4: Finger image data - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011/Cor 1:2014)

INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R201x], Information technology - Biometric data interchange formats - Part 5: Face image data - Technical Corrigendum 3 (reaffirm a national adoption INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R201x])

INCITS/ISO/IEC 19794-8:2006/COR1:2011 [R201x], Information technology - Biometric data interchange formats - Part 8: Finger pattern skeletal data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-8:2006/Cor 1:2013)

INCITS/ISO/IEC 19794-9:2011/COR1:2012 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Cor 1:2012)

INCITS/ISO/IEC 19794-9:2011/AM 1:2013 [R201x], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Amd 1:2013)

INCITS/ISO/IEC 19795-6:2012 [R201x], Information technology - Biometric performance testing and reporting - Part 6: Testing methodologies for operational evaluation (reaffirm a national adoption INCITS/ISO/IEC 19795-6:2012 [2013])

INCITS/ISO/IEC 20944-1:2013 [201x], Information Technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 1: Framework, Common Vocabulary, and Common Provisions for Conformance (reaffirm a national adoption INCITS/ISO/IEC 20944 -1:2013 [2013])

INCITS/ISO/IEC 20944-2:2013 [201x], Information Technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 2: Coding Bindings (reaffirm a national adoption INCITS/ISO/IEC 20944 -2:2013 [201x])

INCITS/ISO/IEC 20944-3:2013 [201x], Information Technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 3: API Bindings (reaffirm a national adoption INCITS/ISO/IEC 20944 -3:2013 [2013])

INCITS/ISO/IEC 20944-4:2013 [201x], Information Technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 4: Protocol Bindings (reaffirm a national adoption INCITS/ISO/IEC 20944 -4:2013 [2013])

INCITS/ISO/IEC 20944-5:2013 [201x], Information Technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 5: Profiles (reaffirm a national adoption INCITS/ISO/IEC 20944-5:2013 [2013])

INCITS/ISO/IEC 21000-2:2005 [R201x], Information Technology - Multimedia Framework (MPEG-21) - Part 2: Digital Item Declaration (reaffirm a national adoption INCITS/ISO/IEC 21000-2:2005 [R2013])

INCITS/ISO/IEC 21000-3:2003 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software (reaffirm a national adoption INCITS/ISO/IEC 21000-3:2003 [R2013])

INCITS/ISO/IEC 24754-1:2008 [R201x], Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008 [2013])

INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [R201x]:, Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [2013])

INCITS/ISO/IEC 29109-6:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 29109-6:2011 [2013])

INCITS/ISO/IEC 29109-7:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 7: Signature/sign time series data (reaffirm a national adoption INCITS/ISO/IEC 29109-7:2011 [2013])

INCITS/ISO/IEC 29109-8:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 8: Finger pattern skeletal data (reaffirm a national adoption INCITS/ISO/IEC 29109-8:2011 [2013])

INCITS/ISO/IEC 29109-9:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 9: Vascular image data (reaffirm a national adoption INCITS/ISO/IEC 29109-9:2011 [2013])

INCITS/ISO/IEC 29109-4:2010/COR 1:2011 [R201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 29109-4:2010/COR 1:2011 [2013])

INCITS/ISO/IEC 29142-1:2013 [201x], Information technology - Print cartridge characterization - Part 1: General: terms, symbols, notations and cartridge characterization framework (reaffirm a national adoption INCITS/ISO/IEC 29142-1:2013 [2013])

INCITS/ISO/IEC 29142-2:2013 [201x], Information technology - Print cartridge characterization - Part 2: Cartridge characterization data reporting (reaffirm a national adoption INCITS/ISO/IEC 29142-2:2013 [2013])

INCITS/ISO/IEC 29142-3:2013 [201x], Information technology - Print cartridge characterization - Part 3: Environment (reaffirm a national adoption INCITS/ISO/IEC 29142-3:2013 [2013])

INCITS/ISO/IEC 29500-2:2012 [R201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 2: Open Packaging Conventions (reaffirm a national adoption INCITS/ISO/IEC 29500-2:2012 [2013])

INCITS/ISO/IEC 646:1991 [R201x], Information technology - ISO 7-bit coded character set for information interchange (reaffirm a national adoption INCITS/ISO/IEC 646:1991 [R2013])

INCITS/ISO/IEC 2022:1994 [R201x], Information technology - Character code structure and extension techniques (reaffirm a national adoption INCITS/ISO/IEC 2022:1994 [R2013])

INCITS/ISO/IEC 2375:2003 [R201x], Information technology - Procedure for registration of escape sequences and coded character sets (reaffirm a national adoption INCITS/ISO/IEC 2375:2003 [R2013])

INCITS/ISO/IEC 3791:1976 [S201x], Office machines and data processing equipment - Keyboard layouts for numeric applications (stabilized maintenance of INCITS/ISO/IEC 3791:1976 [R2013])

INCITS/ISO/IEC 4873:1991 [R201x], Information technology - ISO 8-bit code for information interchange - Structure and rules for implementation (reaffirm a national adoption INCITS/ISO/IEC 4873:1991 [R2013])

INCITS/ISO/IEC 7350:1991 [R201x], Information technology - Registration of repertoires of graphic characters from ISO/IEC 10367 (reaffirm a national adoption INCITS/ISO/IEC 7350:1991 [R2013])

INCITS/ISO/IEC 7810:2003 [R201x], Identification Cards - Physical Characteristics (reaffirm a national adoption INCITS/ISO/IEC 7810:2003 [R2013])

INCITS/ISO/IEC 7813:2006 [R201x], Information technology - Identification cards - Financial transaction cards (reaffirm a national adoption INCITS/ISO/IEC 7813:2006 [R2013])

INCITS/ISO/IEC 10367:1991 [R201x], Information Technology - Standardized Coded Graphic Character Sets for Use in 8-Bit Codes (reaffirm a national adoption INCITS/ISO/IEC 10367:1991 [R2013])

INCITS/ISO/IEC 10538:1991 [R201x], Information technology - Control functions for text communication (reaffirm a national adoption INCITS/ISO/IEC 10538:1991 [R2013])

INCITS/ISO/IEC 10995:2011 [R201x], Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of the archival lifetime of optical media (reaffirm a national adoption INCITS/ISO/IEC 10995:2011 [2013])

INCITS/ISO/IEC 11002:2008 [R201x], Information technology - Multipath management API (reaffirm a national adoption INCITS/ISO/IEC 11002:2008 [2013])

INCITS/ISO/IEC 11544:1993 [R201x], Information technology - Coded representation of picture and audio information - Progressive bi-level image compression (reaffirm a national adoption INCITS/ISO/IEC 11544:1993 [R2013])

INCITS/ISO/IEC 11989:2010 [R201x], Information technology - iSCSI Management API (reaffirm a national adoption INCITS/ISO/IEC 11989:2010 [2013])

INCITS/ISO/IEC 13187:2011 [R201x], Information technology - Server management command line protocol (SM CLP) specification (reaffirm a national adoption INCITS/ISO/IEC 13187:2011 [2013])

INCITS/ISO/IEC 14473:1999 [R201x], Information technology - Office equipment - Minimum information to be specified for image scanners (reaffirm a national adoption INCITS/ISO/IEC 14473:1999 [R2013])

INCITS/ISO/IEC 15404:2000 [R201x], Information technology - Office machines - Minimum information to be included in specification sheets - Facsimile equipment (reaffirm a national adoption INCITS/ISO/IEC 15404:2000 [R201x])

INCITS/ISO/IEC 18035:2003 [S201x], Information technology - Icon symbols and functions for controlling multimedia software applications (stabilized maintenance of INCITS/ISO/IEC 18035:2003 [R2013])

INCITS/ISO/IEC 18045:2008 [R201x], Information technology - Security techniques - Methodology for IT security evaluation (reaffirm a national adoption INCITS/ISO/IEC 18045:2008 [2013])

INCITS/ISO/IEC 18050:2006 [R201x], Information technology - Office equipment - Print quality attributes for machine readable digital postage marks (reaffirm a national adoption INCITS/ISO/IEC 18050:2006 [R2013])

INCITS/ISO/IEC 19756:2011 [R201x], Information technology - Topic Maps - Constraint Language (TMCL) (reaffirm a national adoption INCITS/ISO/IEC 19756:2011 [2013])

INCITS/ISO/IEC 19799:2007 [R201x], Information technology - Method of measuring gloss uniformity on printed pages (reaffirm a national adoption INCITS/ISO/IEC 19799:2007 [R2013])

INCITS/ISO/IEC 20060:2010 [R201x], Information technology - Open Terminal Architecture (OTA) specification - Virtual machine specification (reaffirm a national adoption INCITS/ISO/IEC 20060:2010 [2013])

INCITS/ISO/IEC 21117:2012 [201x], Information technology - Office equipment - Copying machines and multi-function devices - Information to be included in specification sheets and related test methods (reaffirm a national adoption INCITS/ISO/IEC 21117:2012 [2013])

INCITS/ISO/IEC 21118:2012 [201x], Information technology - Office equipment - Information to be included in specification sheets - Data projectors (reaffirm a national adoption INCITS/ISO/IEC 21118:2012 [2013])

INCITS/ISO/IEC 23270:2006 [R201x], Information Technology - Programming languages - C (reaffirm a national adoption INCITS/ISO/IEC 23270:2006 [R2013])

INCITS/ISO/IEC 23271:2012 [R201x], Information technology - Common Language Infrastructure (CLI) Partition 1 to VI (reaffirm a national adoption INCITS/ISO/IEC 23271:2012 [2013])

INCITS/ISO/IEC 23651:2003 [S201x], Information technology - 8 mm wide magnetic tape cartridge for information interchange - Helical scan recording - AIT-3 format (stabilized maintenance of INCITS/ISO/IEC 23651:2003 [R2013])

INCITS/ISO/IEC 23988:2007 [S201x], Information technology - A code of practice for the use of information technology (IT) in the delivery of assessments (stabilized maintenance of INCITS/ISO/IEC 23988:2007 [R2013])

INCITS/ISO/IEC 24700:2005 [R201x], Quality and performance of office equipment that contains reused components (reaffirm a national adoption INCITS/ISO/IEC 24700:2005 [R2013])

INCITS/ISO/IEC 24703:2004 [S201x], Information Technology - Participant Identifiers (stabilized maintenance of INCITS/ISO/IEC 24703:2004 [R2013])

INCITS/ISO/IEC 24707:2007 [R201x], Information Technology - Common Logic (CL): A Framework for a Family of Logic-Based Languages (reaffirm a national adoption INCITS/ISO/IEC 24707:2007 [R2013])

INCITS/ISO/IEC 24712:2007 [R201x], Colour test pages for measurement of office equipment consumable yield (reaffirm a national adoption INCITS/ISO/IEC 24712:2007 [R2013])

INCITS/ISO/IEC 24735:2012 [201x], Information technology - Office equipment - Method for measuring digital copying productivity (reaffirm a national adoption INCITS/ISO/IEC 24735:2012 [2013])

INCITS/ISO/IEC 29164:2011 [R201x], Information technology - Biometrics - Embedded BioAPI (reaffirm a national adoption INCITS/ISO/IEC 29164:2011 [2013])

INCITS/ISO/IEC 8484:2007 [R2013], Information technology - Magnetic stripes on savings books (withdrawal of INCITS/ISO/IEC 8484:2007 [R2013])

INCITS/ISO/IEC 13250:2003 [R2013], Information technology - SGML applications - Topic maps (withdrawal of INCITS/ISO/IEC 13250:2003 [R2013])

INCITS/ISO/IEC 15775:1999 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application (withdrawal of INCITS/ISO/IEC 15775:1999 [R2013])

INCITS/ISO/IEC 17799:2005 [2009], Information technology - Security techniques - Code of practice for information security management (withdrawal of INCITS/ISO/IEC 17799:2005 [2009])

INCITS/ISO/IEC 18043:2006 [R2013], Information technology - Security techniques - Selection, deployment and operations of intrusion detection systems (withdrawal of INCITS/ISO/IEC 18043:2006 [R2013])

INCITS/ISO/IEC 15775/AM1:2005 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application - Amendment 1 (withdrawal of INCITS/ISO/IEC 15775/AM1:2005 [R2013])

INCITS/ISO/IEC 26300:2006/COR 1:2010 [R201x], Information technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/COR 1:2010 [2013])

INCITS/ISO/IEC 26300:2006/AM 1:2012 [R201x], Information technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/Amd 1:2012)

INCITS/ISO/IEC 26300:2006/COR 2:2011 [R201x], Information technology - OpenDocument Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 2 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/COR 2:2011 [2013])

INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009], Information technology - Security techniques - Code of practice for information security management - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009])

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BSR/NSF 58-201x (i82r1), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2017)

BSR/NSF 385-201x (i1r5), Disinfection Mechanics (new standard)

TIA (Telecommunications Industry Association)

Office: 1320 North Courthouse Road
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Arlington, VA 22201

Contact: *Teesha Jenkins*

Phone: (703) 907-7706

E-mail: standards@tiaonline.org

BSR/TIA 569-E-201x, Telecommunications Pathways and Spaces (revision and redesignation of ANSI/TIA 569-D-2015)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

S-1 Passive Component Steering Committee

The ECIA S-1 Steering Committee, focusing on standards for passive electronic components (capacitors, resistors and inductors) as well as soldering technology and automated component handling, is currently looking for members in the following categories:

- General Interest
- Producer
- User

If you are interested in joining the S-1 Steering Committee, contact Edward F. Mikoski, Vice-President of Standards and Technology at emikoski@ecianow.org.

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at jennifer@wmma.org.

Final Actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI-Audited Designator, as applicable.

ABYC (American Boat and Yacht Council)

New Standard

ANSI/ABYC A-4-2018, Fire Fighting Equipment (new standard): 7/18/2018

ANS (American Nuclear Society)

Reaffirmation

ANSI/ANS 15.8-1995 (R2018), Quality Assurance Program Requirements for Research Reactors (reaffirmation of ANSI/ANS 15.8-1995 (R2013)): 7/18/2018

ASABE (American Society of Agricultural and Biological Engineers)

Revision

ANSI/ASAE S572.-JUL2018, Spray Nozzle Classification by Droplet Spectra (revision of ANSI/ASAE S572.1 MAR2009 (R2017)): 7/18/2018

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME MFC-6-2013 (R2018), Measurement of Fluid Flow in Pipes Using Vortex Flow Meters (reaffirmation of ANSI/ASME MFC -6-2013): 7/18/2018

Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS.
List of Approved and Proposed ANS

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

AAFS (American Academy of Forensic Sciences)

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BSR/ASB Standard 063-201x, Implementation of 3D Technologies in Forensic Firearm and Toolmark Comparison Laboratories (new standard)

Stakeholders: Firearm and tool mark examiners and technicians; Forensic service providers that provide firearm and tool mark examination services; judicial system; law enforcement investigators, and general public.

Project Need: 3D measurement and analysis of toolmarks for use in firearm and toolmark comparison is a technology that is starting to be adopted by the forensic profession. Currently there are no standards or guidelines for the validation and quality control of this technology. This document provides requirements for the adoption of 3D toolmark measurement and analysis in the forensic profession.

This document provides requirements for the proper implementation of 3D technologies (software and/or hardware)/technical procedure(s) required in a forensic toolmark laboratory. This standard includes requirements for setting up the physical environment for the instrumentation as well as requirements for instrument calibration and validation.

BSR/ASB STD 093-201x, Standard Test Method for the Examination and Testing of Firearms (new standard)

Stakeholders: Firearm and toolmark examiners and technicians, crime laboratories and laboratory management, and crime laboratory customers (the criminal justice system).

Project Need: This document will establish a standard for firearm and toolmark examiners and technicians to accurately describe, test, and document firearms. This will result in more uniform practices and reporting amongst practitioners who adopt this standard. No American National Standard presently exists for the examination and testing of firearms by forensic science service providers.

This document establishes standard procedures for the examination and testing of a firearm by firearm and toolmark examiners or technicians. Following these procedures, an examiner or technician will be able to conduct, document, and report the examination and testing of a firearm.

BSR/ASB STD 096-201x, Standard Test Method for the Examination and Testing of Ammunition (new standard)

Stakeholders: Firearm and toolmark examiners and technicians, crime laboratories and laboratory management, and crime laboratory customers (the criminal justice system).

Project Need: This document will establish a standard for firearm and toolmark examiners and technicians to accurately describe, test, and document ammunition. This will result in more uniform practices and reporting amongst practitioners who adopt this standard. No American National Standard presently exists for the examination and testing of ammunition by forensic science service providers.

This standard provides procedures for the examination and testing of ammunition and/or ammunition components by firearm and toolmark examiners or technicians. Following these procedures, an examiner or technician will be able to conduct, document, and report the examination of ammunition and/or ammunition components.

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

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BSR/AHRI Standard 920 (I-P)-201X, Performance Rating of DX-Dedicated Outdoor Air System Units (revision of ANSI/AHRI Standard 920 (I-P)-2015)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required 5-year review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this standard is to establish for Direct Expansion-dedicated Outdoor Air System Units (DX-DOAS): Definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions. This standard applies to factory-assembled commercial or industrial DX-DOAS Units. This standard applies to electrically operated, vapor-compression refrigeration systems. DX-DOAS Units are intended for ducted or non-ducted installation with field- or factory-supplied grills.

BSR/AHRI Standard 921 (SI)-201x, Performance Rating of DX-Dedicated Outdoor Air System Units (revision of ANSI/AHRI Standard 921 (SI)-2015)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required 5-year review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this standard is to establish for Direct Expansion-dedicated Outdoor Air System Units (DX-DOAS): Definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions. This standard applies to factory-assembled commercial or industrial DX-DOAS Units. This standard applies to electrically operated, vapor-compression refrigeration systems. DX-DOAS Units are intended for ducted or non-ducted installation with field- or factory-supplied grills.

BSR/AHRI Standard 1060 (I-P)-201X, Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment (revision of ANSI/AHRI Standard 1060 (I-P)-2014)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, designers, installers, contractors, and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required 5-year review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this standard is to establish for Air-to-Air Exchangers intended for use in Air-to-Air Energy Recovery Ventilation Equipment: Definitions; test requirements; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions. This standard applies to factory-made Air-to-Air Exchangers for use in Air-to-Air Energy Recovery Ventilation Equipment as defined in Section 3 of this standard.

BSR/AHRI Standard 1061 (SI)-201x, Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment (revision of ANSI/AHRI Standard 1061 (SI)-2014)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, designers, installers, contractors, and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required 5-year review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this standard is to establish for Air-to-Air Exchangers intended for use in Air-to-Air Energy Recovery Ventilation Equipment: Definitions; test requirements; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions. This standard applies to factory-made Air-to-Air Exchangers for use in Air-to-Air Energy Recovery Ventilation Equipment as defined in Section 3 of this standard.

BSR/AHRI Standard 310/380-201x, Standard for Packaged Terminal Air-Conditioners and Heat Pumps (revision of ANSI/AHRI Standard 310/380-2014)

Stakeholders: This Standard is intended to guide manufacturers, engineers, installers, contractors, and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required 5-year review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this Standard is to establish the following for packaged terminal air-conditioner and heat pump equipment: Test requirements; rating requirements; minimum data requirements for published ratings; operating requirements; marking and nameplate data; and conformance conditions. This Standard applies to factory-manufactured residential, commercial, and industrial packaged terminal air-conditioners and heat pumps as defined in Clause 3 of this standard. This Standard applies to electrically operated vapor-compression refrigeration systems. This standard applies to packaged terminal air-conditioners and heat pumps intended for unducted installation, but may be employed with ductwork having external static resistance up to 25 Pa (0.1 in H2O).

BSR/AHRI Standard 340/360 (I-P)-201x, Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment (revision and redesignation of ANSI/AHRI Standard 340/360 with Addenda 1 and 2-2011)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, federal and state regulations and efficiency standards developed by American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE), International Energy Conservation Code (IECC), Canadian Standards Association (CSA), Department of Energy (DOE), and users.

Project Need: This standard is subject to review and amendment as technology advances. This project is to begin the required periodic review, and to consider revisions to keep up with the state of practice in the industry.

The purpose of this standard is to establish for Commercial and Industrial Unitary Air-conditioning and Heat Pump Equipment: Definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions. This standard applies to factory-made Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment. This standard applies only to electrically operated vapor compression refrigeration systems.

ASSP (ASC A10) (American Society of Safety Professionals)

Contact: Tim Fisher, (847) 768-3411, TFisher@ASSP.org
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BSR/ASSP A10.29-201X, Pre-Planning,Installation, Inspection, and Use of Fall Protection for Construction and Demolition Operations (new standard)

Stakeholders: Occupational Safety and Health professionals (OSH professionals) working with construction and demolition operations.

Project Need: Based upon the consensus of the A10 Committee For Construction and Demolition Operations and those individuals responsible for safety on construction and demolition sites.

This standard establishes the criteria for the preplanning, selection, training, installation, movement, modification, use, and disassembly of fall protection in construction and demolition. It includes, but is not limited to, performing site-specific preplanning, including Job Hazard Analysis (JSA); determining if a fall hazard can be eliminated; and if it cannot, to identify the least hazardous means and methods to mitigate the potential fall hazard utilizing passive and active fall protection systems. Further, explicitly it includes, but is not limited to, the use of fall arrest, restraint, positioning, climbing, descending, rescue, escape, and the training activities needed to assure safe use of the specified means and methods used. These actions will to be accomplished under the direction of a Competent Person.

ISA (International Society of Automation)

Contact: Rob Breiner, (919) 990-9257, rbreiner@isa.org
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BSR/ISA 62453-41-201x, Field Device Tool (FDT) Interface Specification - Part 41: Object Model Integration Profile - Common Object Model (national adoption with modifications of IEC 62453-41: 2016)

Stakeholders: Manufacturers, regulatory bodies.

Project Need: To fully integrate fieldbuses, devices, and subsystems as seamless part of a wide range of automation tasks covering the whole automation lifecycle.

This part of IEC 62453, which is a technical report, is an interface specification for developers of FDT (Field Device Tool) components for function control and data access within a client/server architecture. The specification is a result of an analysis and design process to develop standard interfaces to facilitate the development of servers and clients by multiple vendors that need to interoperate seamlessly.

BSR/ISA 62453-42-201x, Field Device Tool (FDT) Interface Specification - Part 42: Object Model Integration Profile - Common Language Infrastructure (national adoption with modifications of IEC TR 62453-42: 2016)

Stakeholders: Manufacturers, regulatory bodies.

Project Need: To fully integrate fieldbuses, devices, and subsystems as seamless part of a wide range of automation tasks covering the whole automation lifecycle.

This part of IEC 62543, which is a technical report, is an interface specification for developers of FDT (Field Device Tool) components for function control and data access within a client/server architecture. The specification is a result of an analysis and design process to develop standard interfaces to facilitate the development of servers and clients by multiple vendors that need to interoperate seamlessly.

ITI (INCITS) (InterNational Committee for Information Technology Standards)

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1101 K Street NW, Suite 610, Washington, DC 20005-3922

BSR/INCITS/ISO 19160-4-201x [201x], Information technology - Addressing - Part 4: International postal address components and template language (identical national adoption of ISO 19160-4:2017)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines key terms for postal addressing, postal address components, and constraints on their use. Specifically, the standard defines postal address components organized into three hierarchical levels: elements, such as organization name or postcode, which have well-defined conceptual meaning and are not themselves made up of subordinate components, though they may be subdivided for technical purposes; constructs, such as organization identification, which group elements into units form a logical portion of a postal address; segments, such as addressee specification, which group-related postal address constructs and/or postal address elements into units with a specific defined function. This standard also specifies a mechanism for creation of sub-elements, which correspond to either subdivisions of element content, such as door type or door indicator or to multiple occurrences and locations of elements in an address, such as levels of administrative regions.

INCITS/ISO/IEC 9075-3:2016 [201x], Information Technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI) (identical national adoption of ISO/IEC 9075-3:2016 and revision of INCITS/ISO/IEC 9075-3:2008 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines the structures and procedures that can be used to execute statements of the database language SQL from within an application written in a programming language in such a way that procedures used are independent of the SQL statements to be executed.

INCITS/ISO/IEC 9594-1:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 1: Overview of Concepts, Models and Services (identical national adoption of ISO/IEC 9594-1:2017 and revision of INCITS/ISO/IEC 9594-1:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Provides the directory capabilities required by OSI applications, OSI management processes, other OSI layer entities, and telecommunications services. Among the capabilities which it provides are those of "user-friendly naming", whereby objects can be referred to by names which are suitable for citing by human users (though not all objects need have user-friendly names); and "name-to-address mapping", which allows the binding between objects and their locations to be dynamic. The latter capability allows OSI networks, for example, to be "self-configuring" in the sense that addition, removal, and the changes of object location do not affect OSI network operation.

INCITS/ISO/IEC 9594-2:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 2: Models (identical national adoption of ISO/IEC 9594-2:2017 and revision of INCITS/ISO/IEC 9594-2:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

The models defined in this standard provide a conceptual and terminological framework for the other ITU-T X.500-series Recommendations | parts of ISO/IEC 9594 which define various aspects of the Directory. The functional and administrative authority models define ways in which the Directory can be distributed, both functionally and administratively. Generic Directory System Agent (DSA) and DSA information models and an Operational Framework are also provided to support Directory distribution. The generic Directory Information Models describe the logical structure of the Directory Information Base (DIB) from the perspective of Directory and Administrative Users. In these models, the fact that the Directory is distributed, rather than centralized, is not visible.

INCITS/ISO/IEC 9594-3:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 3: Abstract Service Definition (identical national adoption of ISO/IEC 9594-3:2017 and revision of INCITS/ISO/IEC 9594-3:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines in an abstract way the externally visible service provided by the Directory. Does not specify individual implementations or products.

INCITS/ISO/IEC 9594-4:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 4: Procedures for Distributed Operation (identical national adoption of ISO/IEC 9594-4:2017 and revision of INCITS/ISO/IEC 9594-4:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies the behavior of DSAs taking part in a distributed directory consisting of multiple Directory systems agents (DSAs) and/or LDAP servers with at least one DSA. The allowed behavior has been designed to ensure a consistent service given a wide distribution of the DIB across a distributed directory. Only the behavior of DSAs taking part in a distributed directory is specified. The behavior of LDAP servers are specified in relevant LDAP specifications. There are no special requirements on an LDAP server beyond those given by the LDAP specifications.

INCITS/ISO/IEC 9594-5:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 5: Protocol Specifications (identical national adoption of ISO/IEC 9594-5:2017 and revision of INCITS/ISO/IEC 9594-5:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies the Directory Access Protocol, the Directory System Protocol, the Directory Information Shadowing Protocol, and the Directory Operational Binding Management Protocol which fulfill the abstract services specified in Rec. ITU-T X.511 | ISO/IEC 9594-3, Rec. ITU-T X.518 | ISO/IEC 9594-4, Rec. ITU-T X.525 | ISO/IEC 9594-9, and Rec. ITU-T X.501 | ISO/IEC 9594-2.

INCITS/ISO/IEC 9594-6:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 6: Selected Attribute Types (identical national adoption of ISO/IEC 9594-6:2017 and revision of INCITS/ISO/IEC 9594-6:2000 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines a number of attribute types and matching rules which may be found useful across a range of applications of the Directory.

INCITS/ISO/IEC 9594-7:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 7: Selected Object Classes (identical national adoption of ISO/IEC 9594-7:2017 and revision of INCITS/ISO/IEC 9594-7:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines a number of object classes and name forms which may be found useful across a range of applications of the Directory. The definition of an object class involves listing a number of attribute types which are relevant to objects of that class. The definition of a name form involves naming the object class to which it applies and listing the attributes to be used in forming names for objects of that class. These definitions are used by the administrative authority which is responsible for the management of the directory information.

INCITS/ISO/IEC 9594-8:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 8: Public-Key and Attribute Certificate Frameworks (identical national adoption of ISO/IEC 9594-8:2017 and revision of INCITS/ISO/IEC 9594-8:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Addresses some of the security requirements in the areas of authentication and other security services through the provision of a set of frameworks upon which full services can be based. Specifically, this Recommendation | International Standard defines frameworks for public-key certificates, and attribute certificates.

INCITS/ISO/IEC 9594-9:2017 [201x], Information technology - Open Systems Interconnection - The Directory - Part 9: Replication (identical national adoption of ISO/IEC 9594-9:2017 and revision of INCITS/ISO/IEC 9594-9:2008 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies a shadow service which Directory system agents (DSAs) may use to replicate Directory information. The service allows Directory information to be replicated among DSAs to improve service to Directory users. The shadowed information is updated, using the defined protocol, thereby improving the service provided to users of the Directory.

INCITS/ISO/IEC 11770-4:2017 [201x], Information technology - Security techniques - Key management - Part 4: Mechanisms based on weak secrets (identical national adoption of ISO/IEC 11770-4:2017 and revision of INCITS/ISO/IEC 11770-4:2006 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines key establishment mechanisms based on weak secrets, i.e., secrets that can be readily memorized by a human, and hence, secrets that will be chosen from a relatively small set of possibilities. It specifies cryptographic techniques specifically designed to establish one or more secret keys based on a weak secret derived from a memorized password, while preventing offline brute-force attacks associated with the weak secret. ISO/IEC 11770-4:2017 is not applicable to the following aspects of key management:
- life-cycle management of weak secrets, strong secrets, and established secret keys; and
- mechanisms to store, archive, delete, destroy, etc. weak secrets, strong secrets, and established secret keys.

INCITS/ISO/IEC 11770-3:2015/COR 1:2016 [201x], Information technology - Security techniques Key management - Part 3: Mechanisms using asymmetric techniques - Technical Corrigendum 1 (identical national adoption of ISO/IEC 11770-3:2015/COR 1:2016)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Technical Corrigendum 1 to ISO/IEC 11770-3:2015.

INCITS/ISO/IEC 14888-3:2016 [201x], Information technology - Security techniques - Digital signatures with appendix - Part 3: Discrete logarithm based mechanisms (identical national adoption of ISO/IEC 14888-3:2016 and revision of INCITS/ISO/IEC 14888-3:2006 [R2013], INCITS/ISO/IEC 14888 -3:2006/Amd 2:2012 [2014], INCITS/ISO/IEC 14888-3:2006/COR1:2007 [R2014], and INCITS/ISO/IEC 14888-3:2006/COR 2:2009 [R2014])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies digital signature mechanisms with appendix whose security is based on the discrete logarithm problem. Provides a general description of a digital signature with appendix mechanism and a variety of mechanisms that provide digital signatures with appendix. For each mechanism, this part of specifies the process of generating a pair of keys, the process of producing signatures, and the process of verifying signatures.

INCITS/ISO/IEC 15946-1:2016 [201x], Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 1: General (identical national adoption of ISO/IEC 15946-1:2016 and revision of INCITS/ISO/IEC 15946-1:2008 [R2014])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Describes the mathematical background and general techniques necessary for implementing the elliptic curve cryptography mechanisms defined in ISO/IEC 15946-5, ISO/IEC 9796-3, ISO/IEC 11770-3, ISO/IEC 14888-3, ISO/IEC 18033-2, and other ISO/IEC standards. This standard does not specify the implementation of the techniques it defines. For example, it does not specify the basis representation to be used when the elliptic curve is defined over a finite field of characteristic two. Thus, interoperability of products complying with ISO/IEC 15946-1:2016 will not be guaranteed.

INCITS/ISO/IEC 18033-5:2015 [201x], Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers (identical national adoption of ISO/IEC 18033-5:2015)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies identity-based encryption mechanisms. For each mechanism, the functional interface, the precise operation of the mechanism, and the ciphertext format are specified. However, conforming systems may use alternative formats for storing and transmitting ciphertexts.

INCITS/ISO/IEC 18370-2:2016 [201x], Information technology - Security techniques - Blind digital signatures - Part 2: Discrete logarithm-based mechanisms (identical national adoption of ISO/IEC 18370-2:2016)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

ISO/IEC 18370-2:2016 specifies blind digital signature mechanisms, together with mechanisms for three variants of blind digital signatures. The variants are blind digital signature mechanisms with partial disclosure, blind digital signature mechanisms with selective disclosure and traceable blind digital signature mechanisms. The security of all the mechanisms in ISO/IEC 18370-2:2016 is based on the discrete logarithm problem.

INCITS/ISO/IEC 19086-3:2017 [201x], Information technology - Cloud computing - Service level agreement (SLA) framework - Part 3: Core conformance requirements (identical national adoption of ISO/IEC 19086-3:2017)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

This standard specifies the core conformance requirements for service level agreements (SLAs) for cloud services based on ISO/IEC 19086-1 and guidance on the core conformance requirements. This document is for the benefit of and use by both cloud service providers and cloud service customers. The standard does not provide a standard structure that would be used for cloud SLAs.

INCITS/ISO/IEC 19757-3:2016, Information technology - Document Schema Definition Languages (DSDL) - Part 3: Rule-based validation - Schematron (identical national adoption of ISO/IEC 19757-3:2016 and revision of INCITS/ISO/IEC 19757-3:2006 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies Schematron, a schema language for XML. This part of ISO/IEC 19757 establishes requirements for Schematron schemas and specifies when an XML document matches the patterns specified by a Schematron schema.

INCITS/ISO/IEC 19784-1:2018 [201x], Information technology - Biometric application programming interface - Part 1: BioAPI specification (identical national adoption of ISO/IEC 19784-1:2018 and revision of INCITS/ISO/IEC 19784-1:2006 [R2017], INCITS/ISO/IEC 19784-1:2006/AM1:2007 [R2013], INCITS/ISO/IEC 19784-1:2006/AM 2:2009 [R2014]. and INCITS/ISO/IEC 19784-1:2006/AM 3:2010 [R2016])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

ISO/IEC 19784-1:2018 defines the Application Programming Interface (API) and Service Provider Interface (SPI) for standard interfaces within a biometric system that support the provision of that biometric system using components from multiple vendors. It provides interworking between such components through adherence to this and to other International Standards.

INCITS/ISO/IEC 19785-1:2015 [201x], Information Technology - Common Biometric Exchange Formats Framework - Part 1: Data Element Specification (identical national adoption of ISO/IEC 19785-1:2015 and revision of INCITS/ISO/IEC 19785-1:2006 [R2013] and INCITS/ISO/IEC 19785-1:2006/AM 1:2010 [R2015])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

This part of the standard defines structures and data elements for biometric information records (BIRs). Defines the concept of a domain of use to establish the applicability of a standard or specification that complies with CBEFF requirements; defines the concept of a CBEFF patron format, which is a published BIR format specification that complies with CBEFF requirements, specified by a CBEFF patron; defines the abstract values (and associated semantics) of a set of CBEFF data elements to be used in the definition of CBEFF patron formats. It specifies the use of CBEFF data elements by a CBEFF patron to define the content and encoding of a standard biometric header (SBH) to be included in a biometric information record (i.e., the definition of a CBEFF patron format). It provides the means for identification of the formats of the BDBs in a BIR but the standardization and interoperability of BDB formats are not in the scope of this part of ISO/IEC 19785. It also provides a means (the security block) for BIRs to carry information about the encryption of a BDB in the BIR and about integrity mechanisms applied to the BIR as a whole; the structure and content of security blocks are not in the scope of this part of ISO/IEC 19785. Further, the specification of encryption mechanisms for BDBs and of integrity mechanisms for BIRs is not in the scope of this part. Specifies transformations from one CBEFF patron format to a different CBEFF patron format. The encoding of the abstract values of CBEFF data elements to be used in the specification of CBEFF patron formats is not in the scope of this part of ISO/IEC 19785. Protection of the privacy of individuals from inappropriate dissemination and use of biometric data is not in the scope of this part, but may be subject to national regulation.

INCITS/ISO/IEC 24727-1:2014 [201x], Identification cards - Integrated circuit card programming interfaces - Part 1: Architecture (identical national adoption of ISO/IEC 24727-1:2014 and revision of INCITS/ISO/IEC 24727-1:2007 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies a set of programming interfaces and protocols enabling interactions between integrated circuit cards (ICCs) and applications resident on a variety of computer platforms. The ICCs provide generic services for multi-sector use by the applications. The organization and the operation of the ICCs conform to ISO/IEC 7816 4. It is anticipated that some application domains will seek to achieve interoperability through ISO/IEC 24727 facilities even though the applications pre-exist these facilities. To this end, various means of backward compatibility are established through mechanisms specified in ISO/IEC 24727.

INCITS/ISO/IEC 27033-4-2014 [201x], Information technology - Security techniques - Network security - Part 4: Securing communications between networks using security gateways (identical national adoption of ISO/IEC 27033-4:2014 and revision of INCITS/ISO/IEC 18028-3:2005 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Gives guidance for securing communications between networks using security gateways (firewall, application firewall, Intrusion Protection System, etc.) in accordance with a documented information security policy of the security gateways, including (1) identifying and analyzing network security threats associated with security gateways; (2) defining network security requirements for security gateways based on threat analysis; (3) using techniques for design and implementation to address the threats and control aspects associated with typical network scenarios; and (4) addressing issues associated with implementing, operating, monitoring, and reviewing network security gateway controls.

INCITS/ISO/IEC 29192-5:2016 [201x], Information technology - Security techniques - Lightweight cryptography - Part 5: Hash-functions (identical national adoption of ISO/IEC 29192-5:2016)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies three hash-functions suitable for applications requiring lightweight cryptographic implementations.
- PHOTON: A lightweight hash-function with permutation sizes of 100, 144, 196, 256, and 288 bits computing hash-codes of length 80, 128, 160, 224, and 256 bits, respectively;
- SPONGENT: A lightweight hash-function with permutation sizes of 88, 136, 176, 240, and 272 bits computing hash-codes of length 88, 128, 160, 224, and 256 bits, respectively; and
- Lesamnta-LW: A lightweight hash-function with permutation size 384 bits computing a hash-code of length 256 bits.
The requirements for lightweight cryptography are given in ISO/IEC 29192-1.

INCITS/ISO/IEC 29192-4:2013/AM 1:2016 [201x], Information technology - Security techniques - Lightweight cryptography - Part 4: Mechanisms using asymmetric techniques (identical national adoption of ISO/IEC 29192-4:2013/AM 1:2016)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Amendment 1 to ISO/IEC 29192-4:2013.

INCITS/ISO/IEC 29500-1-2016 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 1: Fundamentals and Markup Language Reference (identical national adoption of ISO/IEC 29500-1:2016 and revision of INCITS/ISO/IEC 29500-1:2012 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines a set of XML vocabularies for representing word-processing documents, spreadsheets and presentations. On the one hand, the goal of ISO/IEC 29500 is to be capable of faithfully representing the pre-existing corpus of word-processing documents, spreadsheets and presentations that had been produced by the Microsoft Office applications (from Microsoft Office 97 to Microsoft Office 2008, inclusive) at the date of the creation of ISO/IEC 29500. It also specifies requirements for Office Open XML consumers and producers. On the other hand, the goal is to facilitate extensibility and interoperability by enabling implementations by multiple vendors and on multiple platforms.

INCITS/ISO/IEC 29500-3-2015 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 3: Markup Compatibility and Extensibility (identical national adoption of ISO/IEC 29500-3:2015 and revision of INCITS/ISO/IEC 29500-3:2012 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Describes a set of conventions that are used by Office Open XML documents to clearly mark elements and attributes introduced by future versions or extensions of Office Open XML documents, while providing a method by which consumers can obtain a baseline version of the Office Open XML document (a version without extensions) for interoperability.

INCITS/ISO/IEC 29500-4-2016 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 4: Transitional Migration Features (identical national adoption of ISO/IEC 29500-4:2016 and revision of INCITS/ISO/IEC 29500-4:2012 [2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines a set of XML vocabularies for representing word-processing documents, spreadsheets, and presentations. On the one hand, the goal of ISO/IEC 29500 is to represent faithfully the existing corpus of word-processing documents, spreadsheets, and presentations that have been produced by Microsoft Office applications (from Microsoft Office 97 to Microsoft Office 2008, inclusive). It also specifies requirements for Office Open XML consumers and producers. On the other hand, the goal is to facilitate extensibility and interoperability by enabling implementations by multiple vendors and on multiple platforms. Defines features for backward-compatibility and that are useful for high-quality migration of existing binary documents to ISO/IEC 29500. These features are used only by documents of conformance class WML Transitional (§2.1), SML Transitional (§2.1), or PML Transitional (§2.1). These features are sometimes needed for high-quality migration of existing binary documents to ISO/IEC 29500.

INCITS/ISO/IEC 30134-4:2017 [201x], Information Technology - Data Centres - Key Performance Indicators - Part 4: IT Equipment Energy Efficiency for Servers (ITEEsv) (identical national adoption of ISO/IEC 30134-4:2017)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies Information Technology Equipment Energy Efficiency for servers (ITEEsv), a key performance indicator (KPI) which quantifies the energy efficiency characteristics of servers in a data center. ITEEsv can be calculated using a choice of pre-existing or context specific server performance benchmarks. ITEEsv intends to assist in improving the aggregate energy effectiveness of servers in a given data center.

INCITS/ISO/IEC 30134-5:2017 [201x], Information Technology - Data Centres - Key Performance Indicators - Part 5: IT Equipment Utilization for Servers (ITEUsv) (identical national adoption of ISO/IEC 30134-5:2017)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies the IT Equipment Utilization for servers (ITEUsv) as a Key Performance Indicator (KPI) to quantify the utilization of servers in a data center. Is intended as a KPI for improving the aggregate energy efficiency of servers in a given data center.

INCITS/ISO/IEC 40180-2017 [201x], Information technology - Learning, education and training - Quality management, assurance and metrics - Part 1: General approach (identical national adoption of ISO/IEC 40180:2017 and revision of INCITS/ISO/IEC 19796-1:2005 [R2013])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Provides the fundamentals and the reference framework for quality assurance, quality management, and quality improvement in IT-enhanced learning, education and training (called E-Learning). It consists mainly of the Quality Reference Framework (QRF) for E-Learning, which is a common and generic framework to describe, specify, and understand critical properties, characteristics, and metrics of quality. The QRF combines an elaborated and extensive process model with a descriptive model for the processes. ISO/IEC 40180 harmonizes existing approaches, concepts, specifications, terms, and definitions related to quality for E-Learning, education, and training.

INCITS/ISO/IEC 10116:2017 [201x], Information technology - Security techniques - Modes of operation for an n-bit block cipher (identical national adoption of ISO/IEC 10116:2017 and revision of INCITS/ISO/IEC 10116:2008 [R2013] and INCITS/ISO/IEC 10116:2006/COR1:2008 [R2014])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

This document establishes five modes of operation for applications of an n-bit block cipher (e.g., protection of data during transmission or in storage). The defined modes only provide protection of data confidentiality. Protection of data integrity is not within the scope of this document. Also, most modes do not protect the confidentiality of message length information.

INCITS/ISO/IEC 10646:2017 [201x], Information Technology - Universal Coded Character Set (UCS) (identical national adoption of ISO/IEC 10646:2017 and revision of INCITS/ISO/IEC 10646:2014 [2017])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Specifies the Universal Coded Character Set (UCS). It is applicable to the representation, transmission, interchange, processing, storage, input, and presentation of the written form of the languages of the world as well as of additional symbols. specifies the architecture of this International Standard, defines terms used in this International Standard, describes the general structure of the UCS codespace, specifies the Basic Multilingual Plane (BMP) of the UCS, specifies supplementary planes of the UCS: the Supplementary Multilingual Plane (SMP), the Supplementary Ideographic Plane (SIP), the Tertiary Ideographic Plane (TIP), and the Supplementary Special-purpose Plane (SSP); defines a set of graphic characters used in scripts and the written form of languages on a world-wide scale; specifies the names for the graphic characters and format characters of the BMP, SMP, SIP, TIP, SSP and their coded representations within the UCS codespace; specifies the coded representations for control characters and private-use characters; specifies three encoding forms of the UCS: UTF-8, UTF-16, and UTF-32; specifies seven encoding schemes of the UCS: UTF-8, UTF-16, UTF-16BE, UTF-16LE, UTF-32, UTF-32BE, and UTF-32LE; and specifies the management of future additions to this coded character set. The UCS is an encoding system different from that specified in ISO/IEC 2022. The method to designate UCS from ISO/IEC 2022 is specified in 12.2. A graphic character will be assigned only one code point in the standard, located either in the BMP or in one of the supplementary planes.

INCITS/ISO/IEC 17203:2017 [201x], Information technology - Open Virtualization Format (OVF) specification (identical national adoption of ISO/IEC 17203:2017 and revision of INCITS/ISO/IEC 17203:2011 [R2017])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

This standard specifies an open, secure, portable, efficient, and extensible format for the packaging and distribution of software to be run in virtual machines.

INCITS/ISO/IEC 19752:2017 [201x], Information technology - Office equipment - Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 19752:2017 and revision of INCITS/ISO/IEC 19752:2004 [R2013] and INCITS/ISO/IEC 19752:2004/Cor 1:2013)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

ISO/IEC 19752:2017 is limited to the evaluation of toner cartridge page yield for toner-containing cartridges (i.e., all-in-one toner cartridges and toner cartridges without a photoconductor) for monochrome electrophotographic print systems. This document could also be applied to the printer component of any multifunctional device that has a digital input-printing path (i.e., multifunction devices that contain printer components).

INCITS/ISO/IEC 19798:2017 [201x], Information technology - Office equipment - Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 19798:2017 and revision of INCITS/ISO/IEC 19798:2007 [R2013] and INCITS/ISO/IEC 19798:2007/Cor 1:2013)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

The scope of this standard is limited to evaluation of toner cartridge page yield for toner-containing cartridges (i.e., all-in-one toner cartridges and toner cartridges without a photoconductor) for color electrophotographic print systems. This document can also be applied to the printer component of any multifunctional device that has a digital input printing path, including multifunction devices that contain electrophotographic printer components.

INCITS/ISO/IEC 19941:2017 [201x], Information technology - Cloud computing - Interoperability and portability (identical national adoption of ISO/IEC 19941:2017)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

This standard specifies cloud computing interoperability and portability types, the relationship and interactions between these two cross-cutting aspects of cloud computing, and common terminology and concepts used to discuss interoperability and portability, particularly relating to cloud services. ISO/IEC 19941:2017 is related to other standards, namely, ISO/IEC 17788, ISO/IEC 17789, ISO/IEC 19086-1, ISO/IEC 19944, and in particular, references the cross-cutting aspects and components identified in ISO/IEC 17788 and ISO/IEC 17789, respectively. The goal of this document is to ensure that all parties involved in cloud computing, particularly CSCs, CSPs, and cloud service partners (CSNs) acting as cloud service developers, have a common understanding of interoperability and portability for their specific needs. This common understanding helps to achieve interoperability and portability in cloud computing by establishing common terminology and concepts.

INCITS/ISO/IEC 24711:2015 [201x], Method for the determination of ink cartridge yield for colour inkjet printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 24711:2015 and revision of INCITS/ISO/IEC 24711:2007 [R2013] and INCITS/ISO/IEC 24711:2007/Cor 1:2013)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

The scope of this standard is limited to evaluation of ink cartridge page yield for ink-containing cartridges (i.e., integrated ink cartridges and ink cartridges without integrated printheads) for color inkjet print systems. ISO/IEC 24711:2015 can also be applied to the printer component of any multifunctional device that has a digital input printing path, including multifunction devices that contain inkjet printer components. Both liquid and solid ink products can be tested using ISO/IEC 24711:2015.

INCITS/ISO/IEC 27000:2018 [201x], Information technology - Security techniques - Information security management systems - Overview and vocabulary (identical national adoption of ISO/IEC 27000:2018 and revision of INCITS/ISO/IEC 27000:2012 [2014])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Provides the overview of information security management systems (ISMS). It also provides terms and definitions commonly used in the ISMS family of standards. This document is applicable to all types and sizes of organization (e.g., commercial enterprises, government agencies, not-for-profit organizations). The terms and definitions provided in this document cover commonly used terms and definitions in the ISMS family of standards; do not cover all terms and definitions applied within the ISMS family of standards; and do not limit the ISMS family of standards in defining new terms for use.

INCITS/ISO/IEC 27009:2016 [201x], Information technology - Security techniques - Sector-specific application of ISO/IEC 27001 - Requirements (identical national adoption of ISO/IEC 27009:2016)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Defines the requirements for the use of ISO/IEC 27001 in any specific sector (field, application area, or market sector). It explains how to include requirements additional to those in ISO/IEC 27001, how to refine any of the ISO/IEC 27001 requirements, and how to include controls or control sets in addition to ISO/IEC 27001:2013, Annex A. It ensures that additional or refined requirements are not in conflict with the requirements in ISO/IEC 27001. It is applicable to those involved in producing sector-specific standards that relate to ISO/IEC 27001.

MHI (Material Handling Industry)

Contact: Patrick Davison, (704) 714-8755, pdavison@mhi.org
8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217

BSR MH29.2-201X, Safety Requirements for Industrial Tilters (new standard)

Stakeholders: Manufacturers, distributors, installers, owners, and regulators of material handling equipment.

Project Need: This standard is an update to ANSI MH29.2-2000, which was withdrawn in 2010. The standard is intended to reestablish criteria for design, manufacture, performance, and operation of industrial tilters.

This standard applies to the design and operation of industrial tilters. Industrial tilters position materials in a configuration that allows for downstream operations to access materials more effectively. Industrial tilters can be stationary or movable and can be used to position, feed, transfer, load, or unload materials. Industrial tilters are equipment that can be manually or automatically operated. This standard does not include dumpers, upenders, invertors, or rotators.

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org
140 Philips Rd, Exton, PA 19341

BSR/SCTE DVS 1380-201x, Next Generation Audio Coding Constraints for Cable Systems - Part 4: DTS-UHD Audio Coding Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new Standard.

This document is part four of a multi-part standard that specifies the coding constraints of Next Generation Audio system for cable television. In conjunction with SCTE 242-1, this document defines the coding constraints on DTS-UHD for cable television. The carriage of the streams described in this specification is defined in SCTE 243-4 in conjunction with SCTE 243-1.

BSR/SCTE DVS 1381-201x, Next Generation Audio Carriage for Cable Systems - Part 4: DTS-UHD Audio Carriage Constraints (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document is part four of a multipart standard that specifies carriage constraints of Next Generation Audio (NGA) codecs in MPEG-2 Transport Stream and in MPEG DASH. In conjunction with ANSI/SCTE 243-1, this document defines the carriage of DTS-UHD audio in MPEG-2 Transport Stream and MPEG DASH.

SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)

Contact: Cintamani Sweet, (703) 803-2980, csweet@smacna.org
4201 Lafayette Center Drive, Chantilly, VA 20151-1219

BSR/SMACNA 001-201X, Seismic Restraint Manual: Guidelines for Mechanical Systems (revision of ANSI/SMACNA 001-2008)

Stakeholders: Designers, contractors, manufacturers, and code officials.

Project Need: This is a revision and updating of an existing manual that is widely used in the construction industry to assure that it reflects the most current practices, material,s and state of the art.

This is an updated set of flexible guidelines that shows designers and contractors how to determine the correct restraints for sheet metal ducts, piping, and conduit, so that they are more likely to remain attached to the building during an earthquake. The manual shows how very low- and very high-risk areas of the country can be accommodated. Meets California Building Code, Title 24, Part 2 and International Building Code for bracing ductwork, piping, and conduit.

BSR/SMACNA 002-201x, Rectangular Industrial Duct Construction Standards (revision of ANSI/SMACNA 002-2011)

Stakeholders: Manufacturers of industrial products, construction designers, contractors, code inspectors, and government officials involved in industrial construction supervision, inspection, and regulation.

Project Need: This is a revision and updating of an existing standard that is widely used in the construction industry to assure that it reflects the most current practices, procedures, and state of the art.

This 2nd edition of Rectangular Industrial Duct Construction Standards expands the scope of the 1980 version to incorporate a revised theory of design, new materials, and more “user-friendly” tables. Included are new tables for stainless steels and aluminum, plus expanded chapters on materials, welding practices, and a guide specification. It covers the simple, low or moderate temperature, and pressure indoor systems as well as the more complex outdoor systems that operate at moderate to high temperature and pressure and are subject to higher and more complex external loading.

BSR/SMACNA 008-201x, IAQ Guidelines for Occupied Buildings Under Construction (new standard)

Stakeholders: Construction designers, contractors, code inspectors and government officials involved in construction supervision, inspection, and regulation.

Project Need: This is a revision and updating of an existing manual that is widely used in the construction industry to assure that it reflects the most current practices, procedures, and state of the art.

IAQ Guidelines for Occupied Buildings Under Construction is an existing SMACNA manual that is being revised/updated to include new industry standards and references. The Guideline covers how to manage the source of air pollutants, control measures, quality control and documentation, and communication with occupants. It includes example projects, tables, references, resources, and checklists as related to maintaining indoor air quality in occupied areas during construction and renovation.

TIA (Telecommunications Industry Association)

Contact: Teesha Jenkins, (703) 907-7706, standards@tiaonline.org
1320 North Courthouse Road, Suite 200, Arlington, VA 22201

BSR/TIA 569-E-201x, Telecommunications Pathways and Spaces (revision and redesignation of ANSI/TIA 569-D-2015)

Stakeholders: Building owners, architects, installers, tenants, consultants, OEMs, contractors, engineers, MEP firms.

Project Need: Update standard.

This standard specifies requirements for telecommunications pathways and spaces. New revision needed to:
- Incorporate content of addendum ANSI/TIA 569-D-1;
- Incorporate content of addendum ANSI/TIA 569-D-2; and
- Update references

American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option

- **AAMI (Association for the Advancement of Medical Instrumentation)**
- **AARST (American Association of Radon Scientists and Technologists)**
- **AGA (American Gas Association)**
- **AGSC-AGRSS (Auto Glass Safety Council)**
- **ASC X9 (Accredited Standards Committee X9, Incorporated)**
- **ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**
- **ASME (American Society of Mechanical Engineers)**
- **ASTM (ASTM International)**
- **GBI (Green Building Initiative)**
- **HL7 (Health Level Seven)**
- **IES (Illuminating Engineering Society)**
- **MHI (Material Handling Industry)**
- **NAHBRC (NAHB Research Center, Inc.)**
- **NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)**
- **NCPDP (National Council for Prescription Drug Programs)**
- **NEMA (National Electrical Manufacturers Association)**
- **NISO (National Information Standards Organization)**
- **NSF (NSF International)**
- **PRCA (Professional Ropes Course Association)**
- **RESNET (Residential Energy Services Network, Inc.)**
- **SAE (SAE International)**
- **TCNA (Tile Council of North America)**
- **TIA (Telecommunications Industry Association)**
- **UL (Underwriters Laboratories, Inc.)**

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at psa@ansi.org or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to Standards Action Editor at standact@ansi.org.

AAFS
American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
Phone: (719) 453-1036
Web: www.aafs.org

ABYC
American Boat and Yacht Council
613 Third Street
Suite 10
Annapolis, MD 21403
Phone: (410) 990-4460
Web: www.abycinc.org

AHRI
Air-Conditioning, Heating, and Refrigeration Institute
2121 Wilson Blvd
Suite 500
Arlington, VA 22201
Phone: (703) 600-0327
Web: www.ahrinet.org

ANS
American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526
Phone: (708) 579-8268
Web: www.ans.org

ASABE
American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7027
Web: www.asabe.org

ASME
American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
Phone: (212) 591-8521
Web: www.asme.org

ASSP (Safety)
American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068
Phone: (847) 768-3411
Web: www.asse.org

CSA
CSA Group
8501 E. Pleasant Valley Road
Cleveland, OH 44131
Phone: (216) 524-4990
Web: www.csagroup.org

IAPMO (ASSE Chapter)
ASSE International Chapter of IAPMO
18927 Hickory Creek Dr Suite 220
Mokena, IL 60448
Phone: (708) 995-3017
Web: www.asse-plumbing.org

ISA (Organization)
International Society of Automation
67 Alexander Drive
P O Box 12277
Research Triangle Pk, NC 27709
Phone: (919) 990-9257
Web: www.isa.org

ITI (INCITS)
InterNational Committee for Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 737-8888
Web: www.incits.org

MHI
Material Handling Industry
8720 Red Oak Boulevard
Suite 201
Charlotte, NC 28217
Phone: (704) 714-8755
Web: www.mhi.org

NSF
NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 418-6660
Web: www.nsf.org

SCTE
Society of Cable Telecommunications Engineers
140 Philips Rd
Exton, PA 19341
Phone: (800) 542-5040
Web: www.scte.org

SMACNA
Sheet Metal and Air-Conditioning Contractors' National Association
4201 Lafayette Center Drive
Chantilly, VA 20151-1219
Phone: (703) 803-2980
Web: www.smacna.org

TIA
Telecommunications Industry Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Web: www.tiaonline.org

UL
Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096
Phone: (847) 664-1725
Web: www.ul.com

VC (ASC Z80)
The Vision Council
225 Reinekers Lane
Alexandria, VA 22314
Phone: 585-387-9913
Web: www.z80asc.com

ISO & IEC Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

Those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

AIR QUALITY (TC 146)

ISO/DIS 16000-40, Indoor air - Part 40: Indoor air quality management system - 8/11/2018, $82.00

BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 13492, Financial services - Key management related data element - Application and usage of ISO 8583 data elements for encryption - 8/12/2018, $71.00

BIOTECHNOLOGY (TC 276)

ISO/DIS 20395-1, Biotechnology - Requirements for evaluating the performance of quantification methods for nucleic acid target sequences - Part 1: qPCR and dPCR - 10/8/2018, $119.00

BUILDING ENVIRONMENT DESIGN (TC 205)

ISO/DIS 11855-7, Building environment design - Design, dimensioning, installation and control of embedded radiant heating and cooling systems - Part 7: Input parameters for the energy calculation - 8/12/2018, $46.00

ISO/DIS 18566-6, Building environment design - Design, test methods, control of hydronic radiant heating and cooling panel systems - Part 6: Input parameters for the energy calculation - 8/12/2018, $46.00

ENVIRONMENTAL MANAGEMENT (TC 207)

IEC/DIS 62959, Environmental conscious design (ECD) - Principles, requirements and guidance, $82.00

ERGONOMICS (TC 159)

ISO/DIS 25065, Systems and software engineering - Software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for Usability: User requirements specification - 10/6/2018, $88.00

FERTILIZERS AND SOIL CONDITIONERS (TC 134)

ISO/DIS 19747, Fertilizers and soil conditioners - Determination of monosilicic acid concentrations in nonliquid fertilizer materials - 10/5/2018, $53.00

FIRE SAFETY (TC 92)

ISO 5660-1/DAmd1, Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement) - Amendment 1 - 10/11/2018, $29.00

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 10763, Hydraulic fluid power - Plain-end, seamless and welded precision steel tubes - Dimensions and nominal working pressures - 8/9/2018, $33.00

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 19301, Graphic technology - Guidelines for schema writers - Template for colour quality management - 10/7/2018, $67.00

ISO/DIS 12641-2, Graphic technology - Prepress digital data exchange - Part 2: Advanced colour targets for input scanner calibration - 8/12/2018, $77.00

GRAPHICAL SYMBOLS (TC 145)

ISO 7010/DAmd240, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 240: Safety sign P068: No exposure to direct sunlight or hot surface - 10/7/2018, $29.00

ISO 7010/DAmd241, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 241: Safety sign P06: Not user-serviceable - 10/7/2018, $29.00

ISO 7010/DAmd242, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 242: Safety sign P070: Do not put finger in hydromassage jets - 10/7/2018, $29.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 16300-2, Automation systems and integration - Interoperability of capability units for manufacturing application solutions - Part 2: Capability templates and software unit cataloguing - 10/4/2018, $62.00

ISO/DIS 20140-1, Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 1: Overview and general principles - 10/4/2018, $58.00

INFORMATION AND DOCUMENTATION (TC 46)

ISO/DIS 20674-1, Information and documentation - Transliteration of scripts in use in Thailand - Part 1: Transliteration of Akson-Thai-Noi - 10/8/2018, $82.00

NICKEL AND NICKEL ALLOYS (TC 155)

ISO/DIS 23163, Nickel and nickel alloys - Refined nickel - Sampling - 8/13/2018, $71.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 22232-1, Non-destructive testing - Characterization and verification of ultrasonic test equipment - Part 1: Instruments - 8/12/2018, $112.00

ISO/DIS 22232-2, Non-destructive testing - Characterization and verification of ultrasonic test equipment - Part 2: Probes - 8/12/2018, $125.00

ISO/DIS 22232-3, Non-destructive testing - Characterization and verification of ultrasonic test equipment - Part 3: Combined equipment - 8/12/2018, $53.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 18589-1, Measurement of radioactivity in the environment - Soil - Part 1: General guidelines and definitions - 10/8/2018, $67.00

ISO/DIS 18589-4, Measurement of radioactivity in the environment - Soil - Part 4: Plutonium 238 and plutonium 239 + 240 - Test method using alpha spectrometry - 10/7/2018, $82.00

ISO/DIS 18589-6, Measurement of radioactivity in the environment - Soil - Part 6: Gross alpha and gross beta activities - Test method using gas-flow proportional counting - 10/7/2018, $58.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 6504-3, Paints and varnishes - Determination of hiding power - Part 3: Determination of hiding power of paints for masonry and concrete - 10/5/2018, $77.00

PHOTOGRAPHY (TC 42)

ISO/DIS 20954-1, Digital cameras - Measurement for image stabilization performance - Part 1: Optical systems - 10/7/2018, $107.00

QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

ISO/DIS 14971, Medical devices - Application of risk management to medical devices - 8/12/2018, $112.00

ROAD VEHICLES (TC 22)

ISO/DIS 12353-1, Road vehicles - Traffic accident analysis - Part 1: Terminology - 11/11/2005, $107.00

ISO/DIS 15118-2, Road vehicles - Vehicle to grid communication interface - Part 2: Network and application protocol requirements - 10/4/2018, $291.00

ROUND STEEL LINK CHAINS, CHAIN SLINGS, COMPONENTS AND ACCESSORIES (TC 111)

ISO/DIS 4778, Chain slings of welded construction - Grades M(4)) and T(8) - 11/13/2028, $88.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 1656, Rubber, raw natural, and rubber latex, natural - Determination of nitrogen content - 8/11/2018, $82.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 19898, Ships and marine technology - Life-saving appliances and arrangements - Means of recovery of persons - 10/5/2018, $62.00

ISO/DIS 20083-2, Ships and marine technology - Shaft power measurement for ship propulsion system - Part 2: Optical reflection method - 10/5/2018, $53.00

ISO/DIS 20083-3, Ships and marine technology - Shaft power measurement for ship propulsion system - Part 3: Elastic vibration method - 10/4/2018, $46.00

SOLID BIOFUELS (TC 238)

ISO 14780/DAmd1, Solid biofuels - Sample preparation - Amendment 1 - 10/5/2018, $29.00

STEEL (TC 17)

ISO/DIS 6935-2, Steel for the reinforcement of concrete - Part 2: Ribbed bars - 8/12/2018, $88.00

SURFACE CHEMICAL ANALYSIS (TC 201)

ISO/DIS 22415, Surface chemical analysis - Secondary ion mass spectrometry - Method for determining yield volume in argon cluster sputter depth profiling of organic materials - 8/12/2018, $82.00

TIMBER (TC 218)

ISO/DIS 3129, Wood - Sampling methods and general requirements for physical and mechanical testing of small clear wood specimens - Complementary element - 10/4/2018, $46.00

ISO/DIS 5323, Wood flooring and parquet - Vocabulary - 8/12/2018, $53.00

TIMBER STRUCTURES (TC 165)

ISO/DIS 8970, Timber structures - Testing of joints made with mechanical fasteners - Requirements for timber density - 10/6/2018, $46.00

ISO/DIS 19993, Timber structures - Glued laminated timber - Face and edge joint cleavage test - 10/4/2018, $46.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 6489-5, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 5: Specifications for non-swivel clevis couplings - 10/6/2018, $40.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 21291, Traditional Chinese medicine -Therapeutic fumigation devices - 10/4/2018, $46.00

ISO/DIS 22988, Traditional Chinese medicine - Astragalus mongholicus root - 8/11/2018, $71.00

VALVES (TC 153)

ISO/DIS 22153, Electric actuators for industrial valves - General requirements - 10/5/2018, $82.00

WATER QUALITY (TC 147)

ISO/DIS 17995, Water quality - Detection and enumeration of thermotolerant Campylobacter spp. - 12/9/2026, $88.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 33020/DAmd1, Information technology - Process assessment - Process measurement framework for assessment of process capability - Amendment 1 - 10/4/2018, $112.00

ISO/IEC 15444-1/DAmd1, Information technology - JPEG 2000 image coding system: Core coding system - Amendment 1: Signaling for profiles and extended capabilities - 8/11/2018, $102.00

ISO/IEC 18033-3/DAmd2, Information technology - Security techniques - Encryption algorithms - Part 3: Block ciphers - Amendment 2: SM4 - 8/12/2018, $40.00

ISO/IEC DIS 19515, Information technology - Object Management Group Automated Function Points (AFP), 1.0 - 8/11/2018, $102.00

ISO/IEC DIS 24761, Information technology - Security techniques - Authentication context for biometrics - 8/9/2018, $146.00

OTHER

ISO/IEC DIS 17029, Conformity Assessment - General principles and requirements for validation and verification bodies - 10/11/2018, $88.00

IEC Standards

SMB/6494/DC, Stable Grid Operations in a Future of Distributed Electric Power, 2018/8/31

SMB/6495/DC, Artificial Intelligence across Industries, 2018/8/31

2/1921/CD, IEC 60773 ED2: Test methods and apparatus for the measurement of the operational characteristics of brushes, /2018/10/1

20/1828/CD, IEC 62893-4-1 ED1: Charging cables for electric vehicles for rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1, /2018/10/1

21A/659/CDV, IEC 63057 ED1: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion, /2018/10/1

23H/411/CDV, IEC 62613-1 ED2: Plugs, socket-outlets and ship couplers for high-voltage shore connection (HVSC) systems - Part 1: General requirements, /2018/10/1

31/1389/CDV, IEC 60079-6/AMD1 ED4: Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o", /2018/10/1

34/538/CD, IEC 63103 ED1: Lighting equipment - Non-active mode power measurement, /2018/10/1

34D/1402/CD, IEC 60570/AMD2/FRAG1 ED4: Electrical supply track systems for luminaires, /2018/10/1

45A/1218/FDIS, IEC 62765-2 ED1: Nuclear power plants - Instrumentation and control important to safety - Management of ageing of sensors and transmitters - Part 2: Temperature sensors, 2018/8/31

47/2502/CD, IEC 62373-1 ED1: Semiconductor devices - Bias-temperature stability test for metal-oxide semiconductor field-effect transistors (MOSFET) - Part 1: Fast BTI Test method, /2018/10/1

48B/2674/CD, IEC 61076-3-122 ED2: Connectors for electrical and electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and Gigabit Ethernet applications in harsh environments, /2018/10/1

55/1697/CD, IEC 60317-61 ED2: Specifications for particular types of winding wires - Part 61: Polyester glass fibre wound, minimum class 180, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180, 2018/9/14

55/1687/CD, IEC 60317-17 ED4: Specifications for particular types of winding wires - Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105, 2018/9/14

55/1686/CD, IEC 60317-12 ED4: Specifications for particular types of winding wires - Part 12: Polyvinyl acetal enamelled round copper wire, class 120, 2018/9/14

55/1695/CD, IEC 60317-60-1 ED1: Specifications for particular types of winding wires - Part 60-1: Polyester glass-fibre wound fused, unvarnished, bare or enamelled rectangular copper wire, temperature index 155, 2018/9/14

55/1698/CD, IEC 60317-62 ED2: Specifications for particular types of winding wires - Part 62: Polyester glass fibre wound, minimum class 200 resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200, 2018/9/14

55/1700/CD, IEC 60317-70-2 ED1: Specifications for particular types of winding wires - Part 70-2: Polyester glass-fibre wound resin/varnish impregnated, bare or enamelled round copper wire, temperature index 155, 2018/9/14

55/1701/CD, IEC 60317-71/AMD1 ED1: Specifications for particular types of winding wires - Part 71: Polyester glass-fibre wound fused and resin or varnish impregnated, bare or enamelled round copper wire, temperature index 180, 2018/9/14

55/1702/CD, IEC 60317-72/AMD1 ED1: Specifications for particular types of winding wires - Part 72: Polyester glass-fibre wound fused, silicone resin or varnish impregnated, bare or enamelled round copper wire, temperature index 200, 2018/9/14

55/1677A/CD, IEC 60317-0-2 ED4: Specifications for particular types of winding wires - Part 0-2: General requirements - Enamelled rectangular copper wire, 018/9/7/

55/1688/CD, IEC 60317-18 ED4: Specifications for particular types of winding wires - Part 18: Polyvinyl acetal enamelled rectangular copper wire, class 120, 2018/9/14

55/1696/CD, IEC 60317-60-2 ED1: Specifications for particular types of winding wires - Part 60-2: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155, 2018/9/14

55/1699/CD, IEC 60317-70-1 ED1: Specifications for particular types of winding wires - Part 70-1: Polyester glass-fibre wound unvarnished and fused, bare or enamelled round copper wire, temperature index 155, 2018/9/14

56/1779/CDV, IEC 62402 ED2: Obsolescence management, /2018/10/1

61B/621/CDV, IEC 60335-2-25/FRAG7 ED7: Household and similar electrical appliances - Safety - Part 2-25 (f7): Particular requirements for microwave ovens, including combination microwave ovens, /2018/10/1

61B/623/CDV, IEC 60335-2-25/FRAG9 ED7: Household and similar electrical appliances - Safety - Part 2-25 (f9): Particular requirements for microwave ovens, including combination microwave ovens, /2018/10/1

61B/620/CDV, IEC 60335-2-90/AMD1/FRAG7 ED4: Amendment 1 (f7): Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, /2018/10/1

61B/622/CDV, IEC 60335-2-25/FRAG8 ED7: Household and similar electrical appliances - Safety - Part 2-25 (f8): Particular requirements for microwave ovens, including combination microwave ovens, /2018/10/1

62A/1284/CD, ISO TR 24971 ED2: Medical devices - Guidance on the application of ISO 14971, /2018/10/1

62A/1282/CDV, ISO 14971 ED3: Medical devices - Application of risk management to medical devices, /2018/10/1

65C/931/CD, IEC 61784-3 ED4: Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions, /2018/10/1

66/676/CDV, IEC 61010-2-011 ED2: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2 -011: Particular requirements for refrigerating equipment, /2018/10/1

72/1150/DC, AG 1 proposed draft of the restructured version of the Standard for Automatic electrical controls - Part 1: General requirements, IEC 60730-1 (new) edition 6.0., 2018/12/7

80/895/CD, IEC 63173 ED1: Maritime navigation and radiocommunication equipment and systems - Data Interface - Part 1: S-421 Route Plan Based on S-100, /2018/10/1

86A/1871/CDV, IEC 60793-2-10 ED7: Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres, /2018/10/1

86B/4133/CDV, IEC 61300-3-54 ED1: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-54: Examinations and measurements - Angular misalignment between ferrule bore axis and ferrule axes for cylindrical ferrules, /2018/10/1

89/1428/CD, IEC 60695-11-11 ED1: Fire hazard testing - Part 11-11: Test flames - Determination of the characteristic heat flux for ignition from a non-contacting flame source, /2018/10/1

89/1429/CD, IEC TS 60695-11-40 ED2: Fire hazard testing - Part 11 -40: Test flames - Confirmatory tests - Guidance, /2018/10/1

95/395/FDIS, IEC/IEEE 60255-118-1 ED1: Measuring relays and protection equipment - Part 118-1: Synchrophasor for power systems - Measurements, 2018/8/31

100/3135A/DTR, IEC TR 61966-1 ED1: Multimedia systems and equipment - Colour measurement and management - Part 2-6: Commercial RGB colour space (TA 2), 018/9/7/

110/1004/NP, PNW 110-1004: Future IEC 62595-2-4: Display Lighting Unit - Part 2-4: Electro-optical measuring methods of laser module, 2018/9/14

110/1003/DTS, IEC TS 62977-3-1 ED1: Electronic displays - Part 3-1: Evaluation of optical performances - Colour difference based viewing direction dependence, /2018/10/1

115/195/DTR, IEC TR 63127 ED1: Guideline for the System Design of HVDC Converter Stations with Line-Commutated Converters (LCC), 2018/9/14

121A/223(F)/CDV, IEC 60947-1 ED6: Low-voltage switchgear and controlgear - Part 1: General rules, 2018/9/14

CIS/F/745/CD, CISPR 14-1/AMD1/FRAG1 ED6: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission, /2018/10/1

Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from Standards resellers (http://webstore.ansi.org/faq.aspx#resellers)..

ISO Standards

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 20821:2018, Information technology - Learning, education and training - Learning environment components for automated contents adaptation, $68.00

ISO/IEC TR 19583-22:2018, Information technology - Concepts and usage of metadata - Part 22: Registering and mapping development processes using ISO/IEC 19763, $138.00

ADDITIVE MANUFACTURING (TC 261)

ISO/ASTM 52910:2018, Additive manufacturing - Design - Requirements, guidelines and recommendations, $138.00

AIR QUALITY (TC 146)

ISO 19087:2018, Workplace air - Analysis of respirable crystalline silica by Fourier-Transform Infrared spectroscopy, $162.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO 80601-2-13/Amd2:2018, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 2: High efficiency video coding - Amendment 2, $19.00

ISO 20789:2018, Anaesthetic and respiratory equipment - Passive humidifiers, $185.00

ISO 80601-2-79:2018, Medical electrical equipment - Part 2-79: Particular requirements for basic safety and essential performance of ventilatory support equipment for ventilatory impairment, $209.00

ISO 80601-2-80:2018, Medical electrical equipment - Part 2-80: Particular requirements for basic safety and essential performance of ventilatory support equipment for ventilatory insufficiency, $232.00

CRYOGENIC VESSELS (TC 220)

ISO 21013-2/Amd1:2018, Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 2: Non-reclosable pressure-relief devices - Amendment 1, $19.00

FINE CERAMICS (TC 206)

ISO 21113:2018, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for fracture toughness of monolithic ceramic thin plates at room temperature, $138.00

ISO 21714:2018, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for determining density of ceramic coatings, $45.00

GRAPHIC TECHNOLOGY (TC 130)

ISO 19593-1:2018, Graphic technology - Use of PDF to associate processing steps and content data - Part 1: Processing steps for packaging and labels, $103.00

IMPLANTS FOR SURGERY (TC 150)

ISO 8637-2:2018, Extracorporeal systems for blood purification - Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters, $103.00

ISO 8637-3:2018, Extracorporeal systems for blood purification - Part 3: Plasmafilters, $103.00

MECHANICAL TESTING OF METALS (TC 164)

ISO 12108:2018, Metallic materials - Fatigue testing - Fatigue crack growth method, $209.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 20816-5:2018, Mechanical vibration - Measurement and evaluation of machine vibration - Part 5: Machine sets in hydraulic power generating and pump-storage plants, $209.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

ISO 21164:2018, Metallic and other inorganic coatings - DC magnetron sputtered silver coatings for engineering purposes - Measurement of coating adhesion, $45.00

NUCLEAR ENERGY (TC 85)

ISO 14146:2018, Radiological protection - Criteria and performance limits for the periodic evaluation of dosimetry services, $68.00

ISO 19461-1:2018, Radiological protection - Measurement for the clearance of waste contaminated with radioisotopes for medical application - Part 1: Measurement of radioactivity, $103.00

PLAIN BEARINGS (TC 123)

ISO 6525:2018, Plain bearings - Ring type thrust washers made from strip - Dimensions and tolerances, $68.00

ISO 4386-3:2018, Plain bearings - Metallic multilayer plain bearings - Part 3: Non-destructive penetrant testing, $68.00

PLASTICS (TC 61)

ISO 14322:2018, Plastics - Epoxy resins - Determination of degree of crosslinking of crosslinked epoxy resins by differential scanning calorimetry (DSC), $68.00

ISO 25179:2018, Adhesives - Determination of the solubility of water-soluble or alkali-soluble pressure-sensitive adhesives, $68.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

ISO 10001:2018, Quality management - Customer satisfaction - Guidelines for codes of conduct for organizations, $138.00

ISO 10002:2018, Quality management - Customer satisfaction - Guidelines for complaints handling in organizations, $162.00

ISO 10003:2018, Quality management - Customer satisfaction - Guidelines for dispute resolution external to organizations, $185.00

ISO 10004:2018, Quality management - Customer satisfaction - Guidelines for monitoring and measuring, $162.00

ROAD VEHICLES (TC 22)

ISO 16845-2:2018, Road vehicles - Controller area network (CAN) conformance test plan - Part 2: High-speed medium access unit - Conformance test plan, $232.00

ISO 19723-1:2018, Road vehicles - Liquefied natural gas (LNG) fuel systems - Part 1: Safety requirements, $103.00

ISO 19723-2:2018, Road vehicles - Liquefied natural gas (LNG) fuel systems - Part 2: Test methods, $68.00

ROLLING BEARINGS (TC 4)

ISO 7063:2018, Rolling bearings - Needle roller bearing track rollers - Boundary dimensions, geometrical product specifications (GPS) and tolerance values, $68.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 1853:2018, Conducting and dissipative rubbers, vulcanized or thermoplastic - Measurement of resistivity, $103.00

ISO 2007:2018, Rubber, unvulcanized - Determination of plasticity - Rapid-plastimeter method, $68.00

ISO 8067:2018, Flexible cellular polymeric materials - Determination of tear strength, $68.00

ISO 8307:2018, Flexible cellular polymeric materials - Determination of resilience by ball rebound, $68.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO 17339:2018, Ships and marine technology - Life saving and fire protection - Sea anchors for survival craft and rescue boats, $68.00

ISO 21635:2018, Ships and marine technology - Specification of high manganese austenitic steel used for LNG tanks on board ships, $45.00

SOIL QUALITY (TC 190)

ISO 20130:2018, Soil quality - Measurement of enzyme activity patterns in soil samples using colorimetric substrates in micro-well plates, $162.00

STEEL (TC 17)

ISO 4954:2018, Steels for cold heading and cold extruding, $209.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO 16461:2018, Intelligent transport systems - Criteria for privacy and integrity protection in probe vehicle information systems, $103.00

WATER QUALITY (TC 147)

ISO 16266-2:2018, Water quality - Detection and enumeration of Pseudomonas aeruginosa - Part 2: Most probable number method, $232.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO 15626:2018, Non-destructive testing of welds - Time-of-flight diffraction technique (TOFD) - Acceptance levels, $68.00

ISO Technical Reports

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO/TR 21954:2018, Guidance on the selection of the appropriate means of ventilation based on the intended patient, use environment, and operator, $185.00

PAINTS AND VARNISHES (TC 35)

ISO/TR 19402:2018, Paints and varnishes - Adhesion of coatings, $209.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/TR 20173:2018, Welding - Grouping systems for materials - American materials, $232.00

ISO Technical Specifications

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/TS 20991:2018, Space systems - Requirements for small spacecraft, $45.00

HUMAN RESOURCE MANAGEMENT (TC 260)

ISO/TS 30411:2018, Human resource management - Quality of hire metric, $45.00

IMPLANTS FOR SURGERY (TC 150)

ISO/TS 23810:2018, Cardiovascular implants and artificial organs - Checklists for use of extracorporeal circulation equipment, $103.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23008-2/Amd3:2018, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 2: High efficiency video coding - Amendment 3: Additional supplemental enhancement information, $185.00

ISO/IEC 20027:2018, Information technology - Guidelines for slap tenprint fingerprintture, $103.00

ISO/IEC 24707:2018, Information technology - Common Logic (CL) - A framework for a family of logic-based languages, $209.00

ISO/IEC 18013-1:2018, Information technology - Personal identification - ISO-compliant driving licence - Part 1: Physical characteristics and basic data set, $232.00

IEC Standards

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

IEC/PAS 63178 Ed. 1.0 en:2018, Smart manufacturing service platform - Service-oriented integration requirements of the manufacturing resource/capability, $117.00

INSTRUMENT TRANSFORMERS (TC 38)

IEC 61869-14 Ed. 1.0 b:2018, Instrument transformers - Part 14: Additional requirements for current transformers for DC applications, $281.00

IEC 61869-15 Ed. 1.0 b:2018, Instrument transformers - Part 15: Additional requirements for voltage transformers for DC applications, $235.00

MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS (TC 80)

IEC 61993-2 Ed. 3.0 b:2018, Maritime navigation and radiocommunication equipment and systems - Automatic identification systems (AIS) - Part 2: Class A shipborne equipment of the automatic identification system (AIS) - Operational and performance requirements, methods of test and required test results, $387.00

S+ IEC 61993-2 Ed. 3.0 en:2018 (Redline version), Maritime navigation and radiocommunication equipment and systems - Automatic identification systems (AIS) - Part 2: Class A shipborne equipment of the automatic identification system (AIS) - Operational and performance requirements, methods of test and required test results, $503.00

IEC Technical Reports

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC/TR 63158 Ed. 1.0 en cor.1:2018, Corrigendum 1 - Equipment for general lighting purposes - Objective test method for stroboscopic effects of lighting equipment, $0.00

IEC Technical Specifications

MARINE ENERGY - WAVE, TIDAL AND OTHER WATER CURRENT CONVERTERS (TC 114)

IEC/TS 62600-103 Ed. 1.0 en:2018, Marine energy - Wave, tidal and other water current converters - Part 103: Guidelines for the early stage development of wave energy converters - Best practices and recommended procedures for the testing of pre-prototype devices, $352.00

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them.

To register for Notify U.S., please visit http://www.nist.gov/notifyus/.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

INCITS Executive Board – ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum of choice for information technology developers, producers and users for the creation and maintenance of formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

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Society of Cable Telecommunications

ANSI Accredited Standards Developer

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

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ANSI Accredited Standards Developers

Approval of Reaccreditation

Electronic Component Industry Association (ECIA)

ANSI's Executive Standards Council has approved the reaccreditation of the Electronic Component Industry Association (ECIA), an ANSI Member and Accredited Standards Developer, under its recently revised ECIA Engineering Publication – Manual of Standards and Technology Organization and Procedure for documenting consensus on ECIA-sponsored American National Standards, effective July 24, 2018. For additional information, please contact: Mr. Edward F. Mikoski, Jr., MBA, CStd, FSES, Vice-President of Standards and Technology, Electronic Components Industry Association, 2214 Rock Hill Road, Suite 265, Herndon, VA 20170-4212; phone: 571.323.0253; e-mail: emikoski@ecianow.org.

International Organization for Standardization (ISO)

Establishment of ISO Technical Committee

ISO/TC 319 – Karst

A new ISO Technical Committee, ISO/TC 319 – Karst, has been formed. The Secretariat has been assigned to China (SAC).

ISO/TC 319 operates under the following scope:

> Standardization in the field of karst terminology, sustainable development of karst resources, environmental protection and management of karst environment, as well as investigation and assessment (including modeling methods and mapping of karst systems).

Organizations interested in serving as the U.S. TAG Administrator or participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO Proposal for a New Field of ISO Technical Activity

Circular Economy

Comment Deadline: August 10, 2018

AFNOR, the ISO member body for France, has submitted to ISO an ISO Proposal for a New Field of ISO Technical Activity on Circular Economy, with the following scope statement:

> Standardization in the field of Circular economy to develop requirements, frameworks, guidance and supporting tools related to the implementation of circular economy projects.
>
> The proposed deliverables will apply to any organization or group of organizations wishing to implement circular economy projects, such as commercial organizations, public services and not-for-profit organizations.
>
> Excluded: specification of particular aspects of circular economy already covered by existing TCs, such as ecodesign, life cycle assessment in ISO/TC 207 Environmental management and sustainable procurement (ISO 20400: 2017 – Sustainable procurement — Guidance).
>
> Note: The TC will contribute to sustainable development and especially to the implementation of the UN Sustainable Development Goals.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, August 10, 2018.

U.S. Technical Advisory Groups

Reaccreditation

U.S. TAG to ISO Technical Committee 212 – Clinical Laboratory Testing and in vitro Diagnostic Test Systems

Comment Deadline: August 27, 2018

The U.S. Technical Advisory Group (TAG) to ISO Technical Committee 212, Clinical Laboratory Testing and in vitro Diagnostic Test Systems has submitted to ANSI revisions to the procedures under which it was last accredited in 1995 (ANSI Model Procedures for US TAGs to ANSI for ISO Activities). As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact the TAG Administrator to the US TAG to ISO TC 212: Ms. Luann Ochs, MS, Sr. Project Manager, Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, PA 19087; phone: 484.588.5940; e-mail: lochs@clsi.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to CLSI by August 27, 2018, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

Meeting Notice

ANSI/ASSP Z16 Committee for Leading and Lagging Indicators

The American Society of Safety Professionals (ASSP) serves as the secretariat of the ANSI/ASSP Z16 Committee for Leading and Lagging Indicators. The next meeting of the Z16 Committee will take place on September 19-21st, 2018 at ASSP headquarters in Park Ridge, Illinois. Those interested in participating can contact ASSP for additional information at LBauerschmidt@assp.org.

Information Concerning

International Electrotechnical Commission (IEC)

USNC Secretariat – Organization Needed

IEC CIS/A

Response Deadline: August 2, 2018

The US National Committee currently holds the Secretariat for IEC CIS/A. The organization that held this Secretariat withdrew from this role and the USNC is now looking for another organization to take on this Secretariat on behalf of the NC, and appoint a new Secretary for the IEC committee. **If an organization is interested in the position of Secretariat for IEC CIS/A, they are invited to contact Kendall Szulewski-Francis, USNC Program Administrator, at ksfrancis@ansi.org no later than August 2, 2018.**

Please see the scope of IEC CIS/A below.

Scope:
Standardization of:

a) *measuring instruments, ancillary apparatus and test sites;*
b) *measuring methods common to several applications;*
   NOTE: The method of connection, arrangement and use of equipment for the measurement of a particular source of disturbance is primarily the responsibility of the subcommittee dealing with that source, but liaison is maintained with Subcommittee A to achieve the maximum coordination.
c) *treatment of uncertainties in CISPR compliance tests;*
d) *sampling methods used in statistical interpretation of disturbance measurement results and used in correlating the measurement of disturbance with its effect on signal reception;*
e) *for publication in CISPR basic EMC standards and related technical reports.*

Evaluation of proposals for methods of measurement developed by other CISPR subcommittees and consideration of those proposals for publication in CISPR basic or product standards.

Information Concerning

U.S. National Committee of the IEC

Call for Members (USNC)

Looking for VTAG Members for NEW IEC/Strategic Group on Digital Transformation

US Mirror Committee for Strategic Group (SG) 12 - Digital Transformation

The IEC SMB transitioned ahG 77 on Digital Transformation into a new Strategic Group and the U.S. is participating.

Title:
US VTAG for SG 12 - Digital Transformation

Scope:
To advise US SG12 Members in developing the SMB's strategy to standardization in the digital age and the requirements necessary for the technical work, by:

- *Defining the aspects of the Digital Transformation that are relevant to the IEC and standardization activities;*
- *Identifying emerging trends, technologies and practices needed for the development, delivery and use of IEC's work;*
- *Providing a link between IEC's activities and those of external entities (e.g., ISO, ITU, etc.) and the technical work under supervision of IEC;*
- *Providing a platform for relevant discussion and collaboration with internal and external participation.*

Anyone interested in joining the **US VTAG for IEC SG 12 - Digital Transformation** is invited to contact Tony Zertuche, USNC General Secretary, at tzertuche@ansi.org.

ASSE Standard #1055-~~2016~~2018
ASSE Board Approved:
ANSI Approved:

ASSE International

Performance Requirements for Chemical Dispensing Systems with Integral Backflow Protection

Public Review Copy

General Information

No product may be said to be ASSE listed unless the manufacturer has applied to the ASSE, has had the product tested by an official ASSE recognized independent laboratory, according to the applicable ASSE Standard, passed the test, and has been reviewed and approved by the consensus ASSE Seal Control Board. Having completed the aforementioned, the manufacturer may then display the ASSE Seal on the product.

Instructions for receiving the authorization to display the Seal are available from the ASSE International Office. Organizations wishing to adopt or list any ASSE Standard should print the ASSE Standard Number on the cover page first and in equal or larger type to that of the adopting or listing organization.

ASSE International
Mokena, IL

Foreword

This foreword is not part of the standard, however, it is offered to provide background information.

The American Society of Sanitary Engineering is dedicated to the preservation of public health and safety through “Prevention Rather than Cure.”

Prevention of contamination or pollution of potable water in plumbing systems is one of the major objectives of the Society’s Standards Program, which is addressed to the development and promulgation of Standards embracing performance criteria.

In industrial and institutional cleaning operations it is desirable and convenient to dispense cleaning solutions derived from potable water and concentrated products. A dispensing device connected to potable supply constitutes a cross connection which could be a source of contamination to the potable water. Devices providing this function often contain features which are intended to prevent this contamination. This standard identifies accepted methods of backflow protection as well as test methods for evaluating backflow systems incorporated into a chemical dispensing system.

This 2018 revision is identical to the 2016 revision except for the title of the standard. This helps regulators and the backflow community at large recognize that Chemical Dispensing Devices that conform to ASSE 1055 include integral backflow protection and that additional protection is not necessary, as long as the manufacturer’s installation instructions are followed.

Recognition is made of the time volunteered by members of this working group and the support of manufacturers who also participated in the meeting for this standard.

This standard does not imply ASSE’s endorsement of a product which conforms to these requirements. Compliance with this standard does not imply acceptance by any code body.

This standard was promulgated in accordance with procedures developed by the American National Standards Institute (ANSI).

This addition of the standard was approved by the ASSE Board of Directors on xxxxxxxx as an ASSE Standard.

[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text. ONLY the highlighted text is within the scope of this ballot.]

NSF International Standard / American National Standard –

Reverse osmosis drinking water treatment systems

7 Elective performance claims – test methods

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7.1 Chemical reduction claims

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7.1.2 Inorganic chemical reduction claims

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Table 7.2 – Contaminant reduction requirements

Contaminant	Individual influent sample point limits[1] mg/L	Average influent challenge level mg/L	Maximum allowable product water level mg/L	USEPA method/s	Compounds
arsenic (pentavalent)[2]	0.30 ±20%, 0.30 ±25%[3]	0.30 ± 10%	0.010	200.7[4], 200.8	$Na_2HAsO_4 \cdot 7H_2O$
arsenic (pentavalent)[2]	0.050 ±20%, 0.050 ±25%[3]	0.050 ± 10%	0.010	200.7[4], 200.8	$Na_2HAsO_4 \cdot 7H_2O$
barium	10.0 ±20%, 10.0 ±25% [3]	10.0 ± 10%	2.0	200.7, 200.8	$BaCl_2 \cdot 2H_2O$
cadmium	0.03 ±25%	0.03 ± 10%	0.005	200.8, 200.9	$CdCl_2 \cdot 2.5 H_2O$ or $Cd(NO_3)_2$
chromium (hexavalent)[5]	0.3 ± 20%, 0.3 ± 25% [6]	0.3 ± 10% (added as hexavalent)	0.1	200.7, 200.8, 200.9	$Na_2Cr_2O_7 2 H_2O$
chromium (trivalent)[5]	0.3 ± 30%[7]	0.3 ± 10% (added as trivalent)	0.1	—	$CrCl_3 \cdot 6 H_2O$
chromium (hexavalent and trivalent)	0.3 ±25%	0.3 ± 10% (added as 0.15 mg/L hexavalent and 0.15 mg/L trivalent)	0.05 (for each species)	SM3500-CrD and 200.8	—
copper	3.0 ± 20%, 3.0 ± 25%[3]	3.0 ± 10%	1.3	200.7, 200.8	$CuSO_4 \cdot 5 H_2O$
fluoride	8.0 ± 25%	8.0 ± 10%	1.5	340.2	NaF

Table 7.2 – Contaminant reduction requirements

Contaminant	Individual influent sample point limits[1] mg/L	Average influent challenge level mg/L	Maximum allowable product water level mg/L	USEPA method/s	Compounds
lead	0.15 ± 25%	0.15 ± 10%	0.010	200.8, 200.9	$PbCl_2$ or $Pb(NO_3)_2$
mercury	0.006 ±25%	0.006 ± 10% (added as mercuric chloride)	0.002	200.8, 245.1	$HgCl_2$
perchlorate	0.10 ± 25%	0.10 ± 10%	0.006	314.0	$NaClO_4$
selenium	0.10 ± 25%	0.10 ± 10% (added as 0.05 mg/L selenite and 0.05 mg/L selenate)	0.05	200.8, 200.9	50/50 mix of Na_2SeO_3 and Na_2SeO_4
radium 226/228[8]	N/ A	25 pCi/L	5 pCi/L	—	—
uranium	0.10 ± 30% or 0.40 ± 30%	0.10 ± 10% or 0.40 ± 10%	0.02	200.7, 200.8	$UO_2(NO_3)_2$

[1] Equals average influent challenge concentration variability plus one of the following, in order of availability:
1. Acceptable Continuing Calibration Verification (CCV) limits stated in the appropriate USEPA method.
2. Acceptable spike recoveries as stated in the appropriate USEPA method.
3. Opinion of laboratory professionals – no guidance available in USEPA method.

[2] Arsenic shall be added in the pentavalent form and analyzed for total arsenic. Arsenic reduction is species-dependent; therefore, reduction claims shall only be made on chlorinated water supplies where trivalent arsenic has been oxidized to the pentavalent form, as indicated by the presence of a detectable residual of free chlorine at the system inlet.

[3] The first limits apply to analysis conducted according to the first USEPA method, and the second limits apply to analysis conducted according to the second USEPA method.

[4] For arsenic, USEPA Method 200.7 shall be used for analysis of influent sample concentrations only.

[5] Chromium shall be added as chromate for hexavalent chromium reduction and measured as total chromium. Trivalent chromium reduction may be claimed only after additional testing.

[6]The first limits apply to analysis conducted according to USEPA method 200.7, and the second limits apply to analysis conducted according to USEPA method 200.8 or 200.9.

[7] Trivalent chromium is a calculated parameter. The range is based on the propagated error of two analyses.

[8] For test purposes, barium shall be added to the influent challenge water and shall be analyzed in the influent challenge water and product water. The reduction of radium is not concentration-dependent; therefore, barium shall be added at 10 mg/L with a maximum product water level of 2.0 mg/L. Barium is used as a surrogate based on its relationship with radium on the periodic table and the difficulty in using radium for routine testing.

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7.1.2.4.1 TDS reduction test water

Chlorine free deionized water shall be used with the following specific characteristics maintained throughout the test:

turbidity	≤1 NTU
pH	7.5 ± 0.5
temperature	25 ± 1 °C (77 ± 2 °F)
conductivity	1 µS/cm

Sodium chloride (NaCl) shall be added to the test water to achieve a challenge concentration of 750 ± 40 mg/L TDS.

7.1.2.5 Inorganic substance challenge water

For pentavalent arsenic, barium, chromium, radium, and perchlorate, the test compound listed in Table 7.2 shall be added to the TDS influent challenge water (see 7.1.2.4.1) to achieve the influent concentration specified in Table 7.2.

For uranium, the test compound listed in Table 7.2 shall be added to the TDS influent challenge water (see 7.1.2.4.1) to achieve the influent concentration specified in Table 7.2 with the following modification:

— sodium bicarbonate (targeted addition of 50 mg/L- $NaHCO_3$) shall be added to the test water and the TDS increased to a challenge concentration of 750 ± 10% using sodium chloride (NaCl).

For the remaining inorganic substances, the test compound listed in Table 7.2 shall be added to either the TDS influent challenge water (see 7.1.2.4.1) or the inorganic chemical reduction test water (see 7.1.2.4.2) to achieve the influent concentration specified in Table 7.2.

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8 Instructions and information

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Table 8.1 – Performance data sheet requirements

Substance	Influent challenge concentration mg/L	Maximum permissible product water concentration mg/L
arsenic (pentavalent)[1]	0.30 ± 10%	0.010
arsenic (pentavalent)[1]	0.050 ± 10%	0.010
barium	10.0 ± 10%	2.0
cadmium	0.03 ± 10%	0.005
chromium (hexavalent)	0.3 ± 10%	0.1
chromium (trivalent)	0.3 ± 10%	0.1
chromium (hexavalent and trivalent)	0.3 ± 10%	0.05 (hexavalent) and 0.05 (trivalent)
copper	3.0 ± 10%	1.3
fluoride	8.0 ± 10%	1.5

Table 8.1 – Performance data sheet requirements

Substance	Influent challenge concentration mg/L	Maximum permissible product water concentration mg/L
lead	0.15 ± 10%	0.010
mercury	0.006 ± 10%	0.002
nitrate plus nitrite (both as N)[1]	30.0 ± 10%	10.0
nitrate (as N)	27.0 ± 10%	10.0
nitrite (as N)	3.0 ± 10%	1.0
nitrate plus nitrite (both as N)[1]	70 ± 10%	10.0
nitrate (as N)	65 ± 10%	10.0
nitrite (as N)	5 ± 10%	1.0
perchlorate	0.10 ± 10%	0.006
radium 226/228	25 pCi/L ± 10%	5 pCi/L
selenium	0.10 ± 10%	0.05
total dissolved solids	750 ± 40 mg/L	187
turbidity[2]	11 ± 1 NTU	0.5 NTU
uranium[1]	0.10 ± 10%	0.02
uranium[1]	0.40 ± 10%	0.02

[1]Only one influent challenge concentration for a contaminant shall be listed on the performance data sheet.

[2]The influent challenge concentration listed on the performance data sheet must be equivalent to the actual average influent turbidity.

BSR/UL 3003, Standard for Safety for Distributed Generation Cables

PROPOSALS

Proposed First Edition of the Standard for Distributed Generation Cables, UL 3003

6.1 Only copper, copper-clad aluminum, or an acceptable aluminum alloy shall be used for the conductors in a cable. Soft-annealed copper shall comply with Standard Specification for Soft or Annealed Copper Wire, ASTM B3. Solid aluminum conductors in sizes 12 - 8 AWG (3.31 - 8.37 mm^2) shall comply with the requirements for aluminum-wire stock (aluminum-alloy conductor material). All other aluminum conductors shall comply with the requirements for ~~semi-annealed~~ 8000 series aluminum conductors in Requirements for Aluminum Conductors of an 8000 Series Alloy, in UL 1581. Copper-Clad aluminum conductors shall comply with the requirements in Requirements for Copper-Clad Aluminum Conductors, in UL 1581.

6.3 Each 6 - 4/0 AWG and 250 - 1000 kcmil (13.3 - 507 mm^2) conductor shall be stranded. An 18 or 16 AWG (0.824 mm^2 or 1.31 mm^2) copper conductor shall comply with the requirements for fixture wire conductors in the Standard for Fixture Wire, UL 66. A 14 AWG (2.08 mm^2) or larger copper, or 12 AWG (3.31 mm^2) or larger aluminum conductor or copper-clad aluminum shall comply with the requirements in the Standard for Thermoset-Insulated Wires and Cables, UL 44, or in the Standard for Thermoplastic-Insulated Wires and Cables, UL 83, except as modified in this section.

13 Continuity Test of Conductors

13.1 All of the circuit conductors and equipment grounding conductor(s) in the finished cable shall be continuous throughout the entire length of the cable.

13.2 Finished cable shall be tested for continuity of each 18 - 10 AWG (0.824 - 5.26 mm^2), circuit and equipment grounding conductor. One hundred percent of the production of each cable containing one or more 18 - 10 AWG (0.824 - 5.26 mm^2) conductors shall be tested by the cable manufacturer at the cable factory.

13.3 To determine whether or not the finished cable complies with the requirement in 13.2, each of the 18 - 10 AWG (0.824 - 5.26 mm^2) circuit and equipment grounding conductors (one at a time) is to be connected in series with a lamp, buzzer, bell, or other indicator, and a power supply. The conductor is continuous from end to end of the finished cable if the lamp lights, the bell or buzzer sounds, or other indicator signals as intended.

BSR/UL 5500, Standard for Safety for Remote Software Updates,

1. Revise the proposed First Edition of the Standard for Safety for Remote Software Updates, UL 5500, covers the remote updating of software via the manufacturer's recommended process. It is limited to software elements having an influence on safety and on compliance with the particular end product safety standard.

PROPOSAL

4.2.1 The manufacturer shall identify a communication protocol for establishing a **REMOTE** connection between the host and end device.

Compliance is checked by inspection. Suitable technologies that may be used include, but are not limited to:

- IEEE 802.3;

- IEEE 802.11;

- IEEE 802.15.4;

- Other open source and proprietary methodologies.

NOTE: Link and transport layer cryptographic techniques for these protocols may be used to fulfill the requirement of 4.6. ~~where a **SOFTWARE DOWNLOAD PACKAGE** is encrypted from the host and end device entities.~~

BSR/UL 110 Standard for Sustainability for Mobile Phones

1. Editorial changes, clarifications, non-controversial proposals, and proposals with strong support from the STP

4.4 For instances where supplier documentation or test reports are covered under a criterion, the documentation must have been generated:

- within 2 years of when the impacted item was first sold on the market, or
- within 2 years of when the documentation was obtained, or
- when changes were most recently made to the impacted part that impacts the aspects to which the documentation applies,

whichever is ~~earliest~~most recent.

5.24.1 PLASTIC - A material that contains, as an essential ingredient, one or more organic polymeric substances of large molecular weight, is solid in its finished state, and, at some stage in its manufacture or processing into finished articles can be shaped by flow. Rubber, textiles, adhesives, and paint, which may in some cases meet this definition are not considered plastics. Thermoset plastic and 3-D printed plastic are within the scope of this definition.

Adapted, with permission from ASTM D883-12 Standard Terminology Relating to Plastics, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken PA 19428. A copy of the complete standard may be obtained from ASTM, www.astm.org.

11.6.1 Required - Repair and refurbishment

The manufacturer shall meet one of the following options. The options selected in this criterion may be declared differently in each country or region for which the product is declared to conform to this standard.

Option 1:

The manufacturer shall provide the following repair and disassembly information that ~~is~~contains a sufficient ~~and implementable~~amount of detail to perform the tasks identified in the documentation online for use by qualified repair service providers: applicable documentation required for repair or disassembly of the mobile phone, which may include one or more of the following: step-by-step disassembly instructions with required tools, exploded diagram of parts and compatibility chart or other indication of which parts apply to the mobile device (if needed);, product specifications; maintenance procedures; or troubleshooting information.

This documentation shall be available in one or more of the following formats: Adobe PDF, or HTML, or IEEE 1874:2013 "oManual".

OR

Option 2:

The manufacturer shall commit to making field replaceable service parts, and the manuals and diagnostic tools required to replace those parts, available under fair and reasonable terms within 90 days of the product release to qualified repair service providers.

The manufacturer shall select or develop and disclose a publicly available program administered by a third party (e.g. CompTIA Mobility+, CompTIA A+) to which qualified repair service providers can become qualified to repair their mobile phones.

Service manuals shall be available as HTML or IEEE 1874:2013 “oManual”, and licensed under the Creative Commons (CC-BY 4.0 or compatible license).

OR

Option 3:

One or more authorized repair providers shall be available for services including: troubleshooting, repair, and (if applicable) replacement of the product. The manufacturer shall publicly communicate a means to send or bring the product for such services.

15.3.2 Optional - 3TG minerals sourcing (Corporate criterion)

Where a 3TG mineral(s) is sourced in the supply chain for products covered by this standard, the manufacturer shall demonstrate one or more of the following for each 3TG mineral it is sourcing:

a) Recycled or scrap sources; or,

b) 90% of smelters and/or refiners which meet one or more of the following:

1) Appear on the list of validated smelters and refiners from the ~~Conflict Free Sourcing Initiative (CFSI)~~Responsible Minerals Initiative (RMI), Responsible Jewellery Council (RJC), London Bullion Market Association (LBMA), or equivalent; or

2) Independently verified by a third-party that the manufacturer, or a relevant industry or other association has conducted a Reasonable Country of Origin Inquiry (RCOI) regarding the source and chain of custody of the 3TG mineral and implemented the OECD due diligence guidance, where appropriate; or

3) Not sourcing 3TG minerals from a conflict-affected region as determined through an RCOI, including review of the chain of custody of the mineral and due diligence, where appropriate.

Points shall be awarded based on the number of 3TG minerals covered by this criterion that are addressed as listed in Table 15.2.

Due diligence measures implemented by the manufacturer shall include a review and update to the list of sources of 3TG minerals in the product, based on risk, at least annually.

This criterion is not applicable for instances where 3TG minerals are not necessary for the functionality or manufacture of the product.

Point value: maximum 6

16 Innovation ~~(Corporate criterion)~~

4. Restriction of pthalates

9.2.2 Optional - Restriction of ~~DEHP, DBP, and BBP~~phthalates in the product

~~DEHP, DBP, and BBP~~Phthalates listed in the Candidate List of Substances of Very High Concern (SVHC) and REACH Annex XIV (List of Substances Subject to Authorization) shall not exceed 1,000 ppm in homogeneous plastic materials used in the product.

Technical documentation, as required in Article 7(b) of the European Union RoHS Directive, can be generated per standard IEC 63000 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances or through product testing.

Manufacturers that declare products to conform to criterion 7.2.1 shall ~~declare this criterion as "Not applicable" and reduce the number of available optional points needed to achieve Silver or Gold by 4~~have two options to achieve points under this criterion:

Option 1: If product conforms to both 7.2.1 and 9.2.2. - 2 points

Option 2: Product conforms to 7.2.1 and 9.2.2 and manufacturer also demonstrates that phthalates listed in IEC 62474 Phthalates Selected Group 2 do not exceed 1000 ppm in homogenous plastic materials used in the product. - 4 points.

Point value: maximum 4

5. Ease of disassembling mobile phone

11.4.1 Required - Ease of disassembling mobile phone

Screws, snaps, latches, ~~and adhesives~~or other joining or sealing technique in the housing of the mobile phone shall be removable, detachable, or the attached parts separable with the use of standard torx, phillips, blade drivers, or non-proprietary tools, to allow access to the display assembly, primary circuit board, and battery that can provide primary power by a qualified repair service provider or authorized repair provider without causing functional damage that would preclude re-use or refurbishment of the mobile phone.

Exemption: An instance where an adhesive tape is used for electromagnetic compatibility (EMC) compliance does not fall under the requirements of this criterion.

BSR/UL 1088, Standard for Safety for Temporary Lighting Strings

1. Exception to Bonding of Metallic Lamp Guard

18.1.4 A metal lamp guard with or without a nonmetallic coating shall be positively bonded to the equipment grounding conductor of the string.

Exception No. 1: A metal lamp guard that is shipped separate from the lampholder shall be provided with instructions (see 44.17) for positive connection to the equipment grounding conductor of the string unless the bonding connection is automatically obtained.

Exception No. 2: A metal lamp guard that must be removed for relamping shall be designed so that the bonding connection is automatically provided on assembly to the lampholder.

Exception No. ~~3~~: ~~A metal lamp guard of a temporary lighting string employing non-replaceable light sources that is unlikely to become energized.~~

Exception No. 3.: This requirement does not apply to an optional metal lamp guard secured to the outer insulating enclosure of a temporary lighting string that complies with 9.3.

BSR/UL 1989, Standard for Safety for Standby Batteries

1. Revision of 1.1 to clarify what types of batteries are covered by the standard.

1 Scope

1.1 These requirements cover valve regulated or vented batteries that can be used as instrument batteries, enclosed batteries, emergency lighting and power batteries and uninterruptible power supply batteries ~~of the valve regulated or vented type~~. A battery system composed of vented or valve regulated types with battery management controls and other battery system components, and other chemistries or battery types are covered by the Standard for Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications, UL 1973.

2. Revision of 1.3 to clarify that lithium batteries are excluded.

1.3 These requirements are intended to address aqueous electrolyte valve regulated or vented batteries such as lead acid or nickel cadmium, etc., and do not cover risks that may be unique to certain cell chemistries, such as the fire and explosion risks of lithium batteries. Lithium batteries are outside the scope of this standard. ~~Additional investigations are required to evaluate such risks.~~

3. Revision of terminology used in 4.2 and 4.3 to clarify that the standard covers lead acid and similar batteries.

CONSTRUCTION

4 General

4.2 A vented ~~cell or~~ battery shall be equipped with a flame arrester designed to prevent an external flame from propagating into the ~~cell~~ battery when the byproducts of electrolysis (which are vented through the arrester) are ignited.

4.3 A sealed ~~cell or~~ battery shall be equipped with a pressure-release vent to prevent excessive accumulation of gas pressure, or the battery ~~/cell~~ shall be constructed to prevent scatter of ~~cell~~ battery parts in the event of a ~~cell~~ battery explosion. See Pressure Release Test, Section 6.

4. Revision of flame arrestor tests in 7.3.2, 7.5.2, and 7.6.1.

7 Flame Arrester Vent Cap Tests

7.3 Vent cap tests

7.3.2 The test apparatus is to consist of the following:

a) A heavy wall plexiglass hydrogen test fixture as shown in Figure 7.2.

b) Equipment capable of supplying, monitoring and mixing hydrogen and oxygen in stoichiometric proportions.

c) A spark ignition source produced across a 6.4-mm (1/4-in) gap in the ~~10~~ 60 kV, 23 mA secondary of a transformer.

d) A test enclosure cover as shown in Figure 7.3. This test enclosure cover is to be fitted over the hydrogen test fixture as shown in Figure 7.4 for the test as described in 7.6.

e) A protective test room or chamber is to be used as needed for safety.

7.5 Test for sustained burning

7.5.2 One each of the conditioned samples are to be installed in the hydrogen test fixture, described in Figure 7.2, without the test enclosure cover, described in Figure 7.3, in place. The hydrogen test fixture is to be located in a protective room or test chamber as considered necessary for safety purposes. A mixture of hydrogen and oxygen gas is to be caused to flow through the fixture and vent cap and is to be adjusted to the appropriate maximum value as indicated in Table 7.1. Six attempts are to be made to ignite the gas mixture venting from the cap using the spark ignition source. Each attempt to ignite the gas is to consist of a single spark, and there is to be a 10-s interval between each ignition attempt. Since hydrogen gas can burn without visible flame, sustained burning is to be determined by using paper as an indicator.

7.6 Test for flame propagation

7.6.1 After the test described in 7.5.2 for sustained burning, one of each of the conditioned vent caps is to be installed as described in 7.5.2 with the test enclosure cover shown in Figure 7.3, in place as shown in Figure 7.4. The gas mixture is to be allowed to flow into the test fixture. Six attempts are to be made to ignite the gas venting from the cap, approximately 12.7 mm (1/2 in) from the vent cap opening, using the spark ignition source located in the path of the gas flow. Each attempt to ignite the gas is to consist of a single spark, and there is to be a 10-s interval between each ignition attempt.

BSR/UL 2225, Standard for Safety for Cables and Cable-Fittings for Use in *Hazardous (Classified) Locations*

1. This proposal provides revisions to the proposal document dated March 30, 2018 for Cable fittings for Class II, Division 1 only including the construction, testing, marking requirements per comments received.

PROPOSAL

PART II - EXPLOSIONPROOF CABLE SEALING FITTINGS AND DUST-IGNITIONPROOF CABLE ~~SEALING~~ FITTINGS

12.1 ~~Cable sealing~~ Explosionproof cable sealing fittings and dust igntionproof cable fittings shall comply with the applicable construction requirements in the Standard for Conduit, Tubing, and Cable Fittings, UL 514B, ~~and with~~ in addition to the construction requirements in this standard~~, except as modified by this standard~~. Where requirements conflict, the requirements in this standard shall apply.

14.2 Non-metal parts relied upon to create compression to maintain the bonding path between the cable fitting and the Type MC metal-clad cable armor shall be determined to comply with the Current ~~t~~Test requirements of the Standard for Conduit, Tubing, and Cable Fittings, UL 514B after being aged. The Air-Oven aging temperature shall use~~ing~~ the maximum rated temperature of the cable fitting as the maximum service temperature of the cable fitting, in accordance with the Table 4.3 of Standard for Gaskets and Seals, UL 157.

17.1 A seal shall be provided between the end of the ~~connector~~ fitting intended for the connection of the cable and the end of the ~~connector~~ fitting intended for connection to the explosionproof or flameproof equipment as indicated in 17.2 - 17.5.

36.8.1.2 The samples shall each satisfy the requirements shown in Table 36.1.

~~Table 36.1~~

~~Level of protection, equipment group and ingress protection (IP) relationship~~

~~Intended Zone of Application~~	~~Zone 20~~	~~Zone 21~~	~~Zone 22~~
~~Type of Protection~~	~~"ta"~~	~~"tb" or "tD"~~	~~"tc" or "tD"~~
~~Ingress Test~~	~~IP6X~~	~~IP6X~~	~~IP5X~~

Intended Zone of Application	Level of Protection	Group IIIC	Group IIIB	Group IIIA
Zone 21	"tb" or "tD"	IP6X	IP6X	IP5X
Zone 22	"tc" or "tD"	IP6X	IP5X	IP5X

37.3 AEx marking for explosive gas atmospheres shall be marked with the following:

a) Class I;

b) The applicable Zone marking - i.e. Zone 0, Zone 1, or Zone 2;

c) The symbol AEx;

d) The symbol for each type of protection used:

1) "d" or "db": flameproof;

2) "e" or "eb": increased safety;

e) The symbol of the group:

1) IIA, IIB or IIC for electrical equipment for places with an explosive gas atmosphere other than mines susceptible to firedamp.

2) When the electrical equipment is for use only in a particular gas, the chemical formula or the name of the gas in parentheses.

3) When the electrical equipment is for use in a particular gas in addition to being suitable for use in a specific group of electrical equipment, the chemical formula shall follow the group and be separated with the symbol "+", for example, "IIB + H_2".

f) For flameproof cable sealing fittings for use in Groups IIA, IIB, or IIC classified locations. The minimum ambient temperature rating when less than minus 20°C (minus 4°F).

The markings a) to e) shall be placed in the order in which they are given and shall each be separated by a small space.

To avoid the risk of explosion due to confusion with explosionproof cord and cable fittings marked "Class I, Division 2" in accordance with 37.2, cord or cable fittings complying only with the requirements for flameproof "d" or increased safety "e" cable fittings shall not be additionally marked "Class I, Division 2".

NOTE In accordance with NEC Article 501, cable sealing fittings marked "d" or "e" are permitted to be used for the connection of general purpose assemblies acceptable for Class I, Division 2 locations.

Special Note: 37.4 proposed revisions deleted and text revised back to what is currently in the standard.

37.4 AEx marking for explosive dust atmospheres are marked with the following:

a) The applicable Zone marking - i.e. Zone 20, Zone 21, or Zone 22;

b) The symbol AEx;

c) The symbol for each type of protection used:

1) "ta", "tb", "tc", or "tD": dust ignition protection by enclosure.

To avoid the risk of explosion due to confusion with explosionproof cord and cable fittings marked "Class I, Division 2" in accordance with 37.2, cord or cable fittings complying only with

the requirements for protection by enclosure “ta”,“tb”, “tc” or “tD” cable fittings shall not be additionally marked Class I, Division 2 or Class II, Division 2.

NOTE Where acceptable per NEC Section 502.6, cable fittings for Zone 21 or Zone 22 locations are permitted to be installed in Class II, Division 2 locations.