
The MATRIX

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1. Introduction

Following a JTC 1 agreement made in Japan in March 2018, a group was formed to study JTC 1's standards in connection to regulations and the communication and collaboration between the parties.

One of the outcomes of the initial findings was the results of a widespread JTC 1 subcommittee survey. This survey data, known now as the MATRIX linked the use of current JTC 1 standards with national, regional and international regulation and treaties. The first version of the MATRIX was published in association with the study group's official report, which has subsequently been revised and republished for general information and can be found on the jtc1info.org resources page.¹

Subsequent transformation of the group to *Advisory Group 15 on Standards and Regulations* extended their work between 2019 and 2023 where discussions uncovered some key points:

- a) Not only does ISO-IEC/JTC 1 develop and maintain several international standards which fully support international legal and regulatory requirements (LRR) but
- b) It also has many standards which are recognised and used globally, which have international "de facto" status, i.e., a jurisdictional domain while not referencing directly the ISO/IEC in its LRR does actually "mandate" the use of the ISO/IEC standard in its "government business and IT systems". (e.g., ISO/IEC 10646, ISO/IEC 7812, etc. – see MATRIX below)

Additionally work saw an updated version of the MATRIX, following a supplementary survey, to capture changes and current states in the relationships between standards and regulations.

This version became a valuable and reusable asset to JTC 1 and it was proposed that it should be a standalone document which would provide updated information to JTC 1 and have a rolling plan of updates to it.

Therefore by JTC 1/SCs completing the MATRIX below, one will identify "de jure" and "de facto"² ISO/IEC JTC 1 standards which are candidates for either,

- a) "de jure" recognition in jurisdictional domains, i.e., UN member states (as JTC1 P-members); and/or,
- b) as the "de facto default standard", i.e., as in government or non-government procurement (RFPs). This would mean that any bidder on a contract would need to provide a rationale as to why in its bid it will not use the identified ISO/IEC standards referenced (in the RFP).

¹ <https://jtc1info.org/wp-content/uploads/2022/10/JTC-1-Standards-and-Regulations-Report-external-v2.0.pdf>

² ISO/IEC definition of a "jurisdictional domain" (taken from ISO/IEC 15944-5).

"jurisdictional domain" is coined term because "jurisdiction" has multiple different meanings and uses in law. The basic "jurisdictional domain" is a UN member state. All (or the required majority) of UN member states develop and agree to abide by and international treaty, convention, etc. (e.g., WTO, ICAO, WCC, IMO, etc.). Another example of a level of jurisdictional is the European Union. Where a UN member state has a "federal" system, its component parts, i(e.g., states, provinces, territories), are "jurisdictional domains" For the ISO/IEC standard which provides the detailed international rules governing the legal and regulatory requirements of jurisdictional domains, see ISO/IEC 15944-5 "Information technology – Business Operational View –Part 5: Identification and referencing requirements of jurisdictional domains as sources or external constraints" (It is an ISO/IEC freely available standard).

2. Purpose

The purpose of this document includes the following,

- a) to serve as a vehicle for use by JTC 1 subcommittees and participants for identification and preliminary analysis of ISO/IEC standards from an standards and regulations perspective, as either both “de jure” or “de facto” standards in support of LRR;
- b) to provide a “value-added” approach, i.e., instead of just a “listing”;
- c) to have the latest version of this document serve as a referenceable and accessible document for use by JTC1; and,
- d) to serve as the basis template for updates by JTC1 and its SCs when other ISO/IEC standards of a standards and regulations nature are developed.

This ISO-IEC JTC 1 document is “informative” in nature only. This applies in particular to the codes used in the MATRIX in for Column 6 for “de jure” or “de facto” status.” of ISO-IEC/JTC 1 standards

This document serves as a survey report which is populated from input gathered from JTC 1/SCs.

Entries in the MATRIX of ISO/IEC standards should to be reviewed by the JTC 1/SC responsible and it is requested that JTC 1/SCs manage their list of standards at frequent intervals to keep the data current.

3. Explanatory information and references

3.1 Use of a matrix-based, i.e. “coded domain” approach

This supplemental survey and the matrices below are of the nature of a “macro” coded domain within which are nested several “mini” coded domains. This approach is very systematic, IT-enabled, maximizes semantic unambiguity, minimizes data collection and maintenance costs, enables the provision of multilingual Human Interface Equivalents (HIEs) as well as search and retrieval,³

3.2 Basis of (initial) Identification of JTC 1/SCs

The basis of the identification of JTC 1 subcommittees are those observed in various contributions to the JTC 1 group on standards and regulations, as well as those whose standards were raised during discussions during the original meetings of the standards and regulations group in 2018.

3.3 Basis of (initial) Identification of relevant ISO/IEC standards supporting “SR”

³ For the nature and benefits of the use of coded domains, see further ISO/IEC 15944-10, *Information Technology — Business Operational View — Part 10: IT-enabled coded domains as semantic components in business transactions*

The basis of initial identification of ISO/IEC standard supporting applicable legal and regulatory requirements , in whole or in part, is a combination of a Canadian contribution in August 2018 and discussions and follow-up work done by Dr. Jake Knoppers(Canada).

3.4 Organization and presentation of columns in MATRIX

The organization and identification of the data elements in the columns of the MATRIX is provided in the following table:

Col. No.	Title	Use	
1	ISO/IEC JTC1/SC ID	ID of the ISO/IEC JTC1 Subcommittee	
2	JTC1/SC Title	Title of the ISO/IEC JTC1 Subcommittee	
3	Int'l Standard ID	The 5 digit identifier of the standard	
4	Title of Int'l Standard	The (English language) title of the standard	
5	Primary Source of Req'mts Code	Code assigned based on those available in Table 2	
5.a	Comments	Comments referring to code used in column 5 (reference to table 2 below)	
6	SR Status Code	Code assigned based on those available in Table 3	
6.a	Comments/Notes	Used to provide explanatory comments, references and related relevant information	

Table 1 - Organization and presentation of columns in MATRIX

Columns 5 and 6 refer to tables below which provide reference codes in the MATRIX

3.5 Primary source codes

Table represents primary sources of requirements of which development of JTC 1 standards is based:

Code Domain ID.	Source of requirements code	Use	
A.2	1	The primary source, i.e., as normative reference, of this standard are legal & regulatory requirements of a UN Convention or treaty	
A.2	2	The primary source, i.e., as normative reference, of the requirements this standard is an international UN organization mandated to set the (mandatory) rules and guidelines forming the basis for this standard.	
A.2	3	The primary sources, i.e., as normative reference, of the requirements for this standard are two or more international (and/or regional) sets of legal and regulatory requirements	
A.2	4	Evolved to support basic IT infrastructure requirements and its use	
A.2	5		

Table 2 – Primary source codes

3.6 Standards and regulations type codes

Codes representing JTC 1 standards and regulation type codes, for JTC 1 standards identified, i.e., Identification of ISO/IEC “de jure” and/or “de facto” standards.

Code Domain ID.	SR type code	Use	
A.3	1	“de jure” legally recognized international standard	
A.3	2	“de facto” internationally legally recognized standard	
A.3	3	Developed to support relevant and applicable international legal and regulatory requirements.	
A.3	4	Other?	
A.3	5		

Table 3 – SR type code representing standards use

4. MATRIX

ISO/IEC SC or ISO, IEC, ITC ID	Title of Standards Sub-committee or Technical Committee	Int'l Standard ID	Int'l Standards Title	Prim ary Sour ce of Req' mts	Comment	SR typ e cod e	Comments/Notes
1	2	3	4	5	5a	6	6a
JTC1/SC02	Coded Character Sets	ISO/IEC 10646	Information technology – Universal Multiple-Octet Codes Character Set(UCS)	4		2	Results of ITC developments and needs as identified by JTC1/SC2 experts (over20+ years), with additional contributions of various jurisdictional domain as well as application domain experts (e.g., sign language, musical notation, chemical symbols, etc.). This standard evolved with the increasing capability of ITC to support eventually multiple octet character sets.
JTC1/SC06	Telecommunication s and Information Exchange Between Systems						None reported
JTC1/SC07	Software and System Engineering						None reported
JTC1/SC17	Identification Cards and Related Devices	ISO/IEC 7501-1,-2, -3	Identification cards Machine- readable travel documents – Part 1: Machine readable passport, Part 2: Machine readable visa, Part 3: Machine readable official travel documents	1	The ISO/IEC 7501 series of standards is prepared by the International Civil Aviation Organization (as ICAO Doc 9303, Part 1, sixth edition. 2006) and was adopted, under a special "fast-track	1	

					procedure" via JTC1/SC17. ⁴		
JTC1/SC17	Identification Cards and Related Devices	ISO/IEC 7812	Identification cards – Identification of issuers –Part 1: Numbering system, Part 2: Application and registration procedures	4		2	This standard is the de facto base standard for the issuance of any debit, credit, identity, etc. card, as well as identity cards, affinity cards, as well as driver's licences (via ISO TC 204), etc. The world-wide recognized source authority for the registration of "identification card" issuers is the American Bankers Association (ABA).
JTC1/SC22	Programming Languages, Their Environments and System Software Interfaces						There are no standards referenced in law or regulation
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 10149	Information technology — Data interchange on read-only 120 mm optical data disks (CD-ROM)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 12862	Information technology — 120 mm (8,54 Gbytes per side) and 80 mm (2,66 Gbytes per side) DVD recordable disk for dual layer (DVD-R for DL)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 16448	Information technology — 120 mm DVD — Read-only disk	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information	ISO/IEC 17341	Information technology — Data interchange on 120 mm and 80 mm optical disk using +RW format	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations

⁴ The **International Civil Aviation Organization (ICAO)** is a UN specialized agency, established by States in 1944 to manage the administration and governance of the Convention on International Civil Aviation (Chicago Convention). At least 192 UN member states are member of ICAO. ISO/IEC JTC1/SC17 is the JTC1/SC responsible here. It works closely with ICAO. and for many JTC1/SC17 P-members, its delegates are representatives of the passport authority of that UN member state

	interchange and storage		— Capacity: 4,7 Gbytes and 1,46 Gbytes per side (recording speed up to 4X)				
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 17342	Information technology — 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD re-recordable disk (DVD-RW)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 17344	Information technology — Data interchange on 120 mm and 80 mm optical disk using +R format — Capacity: 4,7 Gbytes and 1,46 Gbytes per side (recording speed up to 16X)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 17592	Information technology — 120 mm (4,7 Gbytes per side) and 80 mm (1,46 Gbytes per side) DVD rewritable disk (DVD-RAM)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC23	Digitally recorded media for information interchange and storage	ISO/IEC 23912	Information technology — 80 mm (1,46 Gbytes per side) and 120 mm (4,70 Gbytes per side) DVD Recordable Disk (DVD-R)	4		4	The corresponding JIS standard (IDT) is referenced in the Japan Enforcement Laws and Regulations
JTC1/SC24	Computer Graphics and Image processing						None reported
JTC1/SC25	Interconnection of Information Technology Equipment						None reported
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27001	Information security management system - Requirements	3		1	Referenced by government and regulatory bodies: Australia, Germany, India, Italy, Lithuania, Luxembourg, Malaysia, Mexico, New Zealand, Norway, Peru, Poland,

							Sweden, Switzerland, UK (see SC 27/WG 1 standing document SD7)
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27002	Information security controls	3		1	Referenced by government and regulatory bodies: Australia, Germany, India, Italy, Lithuania, Luxembourg, Malaysia, Mexico, New Zealand, Norway, Peru, Poland, Sweden, Switzerland, UK (see SC 27/WG 1 standing document SD7)
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27003	Information security management systems — Guidance	3		1	Referenced by government and regulatory bodies in Asia and Europe
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27005	Guidance on managing information security risks	3		1	Referenced by government and regulatory bodies in Asia and Europe
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27006-1	Requirements for bodies providing audit and certification of information security management systems — Part 1: General	3		1	Used by national accreditation bodies, certification bodies and regulatory bodies
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27014	Governance of information security	3		1	Referenced by government and regulatory bodies in Asia, and Europe
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27021	Competence requirements for information security management systems professionals	3		1	Referenced by government and regulatory bodies in Asia and Europe
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 15408	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security	3		1	Supporting the EU Cybersecurity Act EUCC
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 18045	Information security, cybersecurity and privacy protection — Evaluation criteria for IT security — Methodology for IT security evaluation	3		1	Supporting the EU Cybersecurity Act EUCC
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 19896	IT security techniques — Competence requirements for information security testers and evaluators	3		1	Supporting the EU Cybersecurity Act EUCC

JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC TS 23532	Information security, cybersecurity and privacy protection — Requirements for the competence of IT security testing and evaluation laboratories	3		1	Supporting the EU Cybersecurity Act EUCC
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29147	Information technology — Security techniques — Vulnerability disclosure	3		1	Supporting the EU Cybersecurity Act EUCC
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 30111	Information technology — Security techniques — Vulnerability handling processes	3		1	Supporting the EU Cybersecurity Act EUCC
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 20889	Privacy enhancing data de-identification terminology and classification of techniques	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 24760-1	IT Security and Privacy — A framework for identity management — Part 1: Terminology and concepts	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 24760-2	Information technology — Security techniques — A framework for identity management — Part 2: Reference architecture and requirements	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 24760-3	Information technology — Security techniques — A framework for identity management — Part 3: Practice	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC TS 27006-2	Requirements for bodies providing audit and certification of information security management systems — Part 2: Privacy information management systems	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC TS 27018	Information technology — Security techniques — Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data

JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC TR 27550	Information technology — Security techniques — Privacy engineering for system life cycle processes	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 27701	Security techniques — Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management — Requirements and guidelines	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29100	Information technology — Security techniques — Privacy framework	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29101	ISO/IEC 29101:2018 Information technology — Security techniques — Privacy architecture framework	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29115	Information technology — Security techniques — Entity authentication assurance framework	3		2, 3	Supporting Regulation (EU) No 910/2014 on electronic identification and trust services for electronic transactions in the internal market
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29134	Information technology — Security techniques — Guidelines for privacy impact assessment	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC27	Information security, cybersecurity and privacy protection	ISO/IEC 29184	Information technology — Online privacy notices and consent	3		2, 3	Supporting Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and the free movement of such data
JTC1/SC29	Coding of Audio, Picture Multimedia and Hypermedia Information						None reported
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15417	Information technology -- Automatic identification and data capture techniques -- Code 128 bar code symbology specification	4		2	This standard has evolved over the past 20+ years. Its is the common de facto "default" standard for use world-wide for bar code applications
JTC1/SC31	Automatic Identification and	ISO/IEC 15420	Information technology – Automatic identification and data	4		2	The EAN/UPC is the "de facto" world wide source authority for the assignment of these bar codes.

	Data Capture Techniques		capture techniques – EAN/UPC bar code symbology specification				
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15434	Automatic identification and data capture techniques -- Syntax for high-capacity ADC media	1	As part of EU regulation on electronic tagging for marine life	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15418	Automatic identification and data capture techniques -- GS1 Application Identifiers and ASC MH10 Data Identifiers and maintenance	1	As part of EU regulation on electronic tagging for marine life	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 18000-8	Radio frequency identification for item management -- Part 6: Parameters for air interface communications at 860 MHz to 960 MHz	1	As part of EU regulation on electronic tagging for marine life	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15022	Automatic identification and data capture techniques -- Data Matrix bar code symbology specification	1	As part of EU regulation on electronic tagging for marine life	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15459-2	Automatic identification and data capture techniques -- Unique identification -- Part 2: Registration procedures	1	FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES SUBCHAPTER H-- MEDICAL DEVICES, part 830, unique device identifiers	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15459-4	Automatic identification and data capture techniques -- Unique identification -- Part 4: Individual products and product packages	1	FOOD AND DRUG ADMINISTRATION DEPARTMENT OF HEALTH AND HUMAN SERVICES SUBCHAPTER H-- MEDICAL DEVICES, part 830, unique device identifiers	1	
JTC1/SC31	Automatic Identification and	ISO/IEC 15459-6	Automatic identification and data capture techniques -- Unique identification -- Part 6: Groupings	1	FOOD AND DRUG ADMINISTRATION DEPARTMENT OF	1	

	Data Capture Techniques				HEALTH AND HUMAN SERVICES SUBCHAPTER H-- MEDICAL DEVICES, part 830, unique device identifiers		
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15415	Automatic identification and data capture techniques -- Bar code symbol print quality test specification -- Two-dimensional symbols	1	EU references for Traceability system for tobacco products	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15416	Automatic identification and data capture techniques -- Bar code print quality test specification -- Linear symbols	1	EU references for Traceability system for tobacco products	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15459-1	Automatic identification and data capture techniques -- Unique identification -- Part 1: Individual transport units	1	EU references for Traceability system for tobacco products	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 15459-4	Automatic identification and data capture techniques -- Unique identification -- Part 4: Individual products and product packages	1	EU references for Traceability system for tobacco products	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 18004	Automatic identification and data capture techniques -- QR Code bar code symbology specification	1	EU references for Traceability system for tobacco products	1	
JTC1/SC31	Automatic Identification and Data Capture Techniques	ISO/IEC 16022	Automatic identification and data capture techniques -- Data Matrix bar code symbology specification	1	EU references for Traceability system for tobacco products	1	
JTC1/SC32	Data Management and Interchange	ISO/IEC 5218	Information technology – Codes for the representation of human sexes/ Technologies de l'information – Codes de représentation des sexes humains	3		2	This standard is used world-wide as the normative basis for basis for many other world-wide standards (e.g. ISO 7501 series)
JTC1/SC32	Data Management and Interchange	ISO/IEC 14662	Information technology – Open-edi reference model	4		4	Serves as the basis for the ISO. IEC, ISO,/IEC, ITU Memorandum of understanding (MOU) on o electronic business (eBusiness)

JTC1/SC32	Data Management and Interchange	ISO/IEC 15944-1	Operational aspects of open-edi for implementation	2		3	Standard adopted by Canada CAN/CSA ISO/IEC 15944-1:13 (R2017), to support data transmission among open-edi connection points.
JTC1/SC32	Data Management and Interchange	ISO/IEC 15944-5	Information technology – Business Operational View(BOV)-Business Operational View- Part 5: Identification and referencing of jurisdictional domains as sources of external constraints	2		3	This standard uses as its primary normative reference the UN Convention of the Law of Treaties(1969
JTC1/SC32	Data Management and Interchange	ISO/IEC 15944-8:2012	Information technology – Business Operational View(BOV)-Business Operational View- Part 8: Identification of privacy requirements as external constraints on business transactions	2		3	This standard was developed to support international legal and regulatory privacy protection requirements as found in three primary normative reference, namely, > <i>OECD Guidelines on the Protection of Privacy and Transborder Data Flows</i> (1980); > <i>Directive 95/46/EC of the European Parliament and of the Council of 25 October 1995 on the protection of individuals with regard to process of personal data and the free movement of such data</i> ⁵ > <i>APEC Privacy Framework</i> (2005)
JTC1/SC32	Data Management and Interchange	ISO/IEC 15944-12	Information technology – Business Operational View(BOV)-Business Operational View- Part 12: Privacy protection requirements (PPR) on information life cycle management (ILCM) and EDI of personal information (PI)	2		3	This standard was developed to support international legal and regulatory privacy protection requirements as found in three primary normative reference, namely, > <i>OECD Guidelines on the Protection of Privacy and Transborder Data Flows</i> (1980); > <i>Directive 95/46/EC of the European Parliament and of the Council of 25 October 1995 on the protection of individuals with regard to process of personal data and the free movement of such data</i> ⁶

⁵ The 95/46 EC EU Directive has now been replaced by the May, 2018 EU General Data Protection Regulations (GDPR). . This standard is in process of being amended updated accordingly. It already supports 75%+ of the GDPR requirements

⁶ This standard was developed during the time the new EU GDPR was being developed. As such it already supports 85%+ of the applicable GDPR legal requirements. The 95/46 EC EU Directive has now been replaced by the May, 2018 EU General Data Protection Regulations (GDPR). . This standard is in process of being amended updated accordingly. It already supports 75%+ of the GDPR requirements

							> APEC Privacy Framework (2005)
JTC1/SC34	Document Description and Processing Languages (including SGML family of standards)						None reported
JTC1/SC35	User Interfaces						None reported
JTC1/SC36	Information technology for Learning, Education and Training (ITLET)	ISO/IEC 20016-1	Information technology for learning, education and training – Language accessibility and human interface equivalencies in e-learning applications – Part 1 Framework and reference model for semantic interoperability - Part 1: Framework and reference model for semantic interoperability				This standard takes as its primary normative reference and is focussed on supporting specific requirements of the “UN Convention of right of persons with disabilities (2006)”. See further “ https://www.un.org/development/desa/disabilities/convention-on-the-rights-of-persons-with-disabilities.html ”
JTC1/SC37	Biometrics	ISO/IEC 30107-1,2,3,4	Biometric presentation attack detection – Part 1: Framework, Part 2: Data Formats, Part 3: Testing and Reporting, Part 4: Profiles	1		1	The ISO/IEC 30107 series of standards is adopted by an international industrial consortium of FIDO.
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 17203:2017	Open Virtualization Format (OVF) specification	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 17826:2016	Cloud Data Management Interface (CDMI)	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 17963:2013	Web Services for Management (WS-Management) Specification	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 19086-1:2016	Service level agreement (SLA) framework -- Part 1: Overview and concepts	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01

JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 19086-3:2017	Service level agreement (SLA) framework -- Part 3: Core conformance requirements	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 19941:2017	Interoperability and portability	4		4	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 17788	Cloud computing -- Overview and vocabulary	4		4	Adopted in Japan as de facto standard for Cloud Computing and Cloud Security
JTC1/SC38	Cloud Computing and distributed platforms	ISO/IEC 17789	Cloud computing -- Reference architecture	4		4	Adopted in Japan as de facto standard for Cloud Computing and Cloud Security
JTC1/SC39	Sustainability, IT and data centres	ISO/IEC 21836:2020	Server energy effectiveness metric	4		3	Referenced in drafts of upcoming China CNIS GB/T Server Energy Efficiency Regulation. Possibly will be referenced in upcoming US EPA ENERGY STAR for Computer Servers v4.0.
JTC1/SC39	Sustainability, IT and data centres	ISO/IEC 30134-1:2016	Part 1: Overview and general requirements	4		2	30134-1, 2, and 3 are referenced in ANSI/BICSI 002 & 009 standard which is referenced by the US Dept of Agriculture Departmental Regulation 3300-001-K - https://www.usda.gov/sites/default/files/documents/DR3300-001-K_Installation_of_Telecomm_Cables_in_Federal_Bldgs_final.pdf
JTC1/SC39	Sustainability, IT and data centres	ISO/IEC 30134-2:2016	Part 2: Power usage effectiveness (PUE)	4		2	
JTC1/SC39	Sustainability, IT and data centres	ISO/IEC 30134-3:2016	Part 3: Renewable energy factor (REF)	4		2	
JTC1/SC39	Sustainability for and by Information Technology						
JTC1/SC40	IT service management and IT Governance	ISO/IEC 20000-2	Information technology — Service management — Part 2: Guidance on the application of service management systems	4		2	This standard meets the criteria of the financial IT audit of Financial Supervisory Service, a government agency. (ex) Procedure, Role & Responsibility, Security related to supporting IT Service
JTC1/SC41	Internet of Things and related technologies						None reported

JTC1/SC42	Artificial Intelligence						None reported
JTC1/SC43	Brain Computer Interfaces						None reported
CAN/CGSB	Canadian Border Service Agency	CAN/CGS B 72.11-93	Microfilm and Electronic Images as Documentary Evidence	4		4	Regional developed standard used for: "Imported Goods Records Regulations, SOR/86-1011" "Customs Brokers Licensing Regulations, SOR/86-1067"
CAN/CGSB	Canadian Border Service Agency	CAN/CGS B 72.11-79	Microfilm and Electronic Images as Documentary Evidence	4		4	Regional developed standard used for: "Exporters' and Producers' Records Regulations, SOR/97-71" "Persons Authorized to Account for Casual Goods Regulations, SOR/95-418"
CAN/CSA	Employment and Social Development Canada	CAN/CSA-S37-94	Antennas, Towers, and Antenna-Supporting Structures	4		4	Regional developed standard used for: "Canada Occupational Health and Safety Regulations, SOR/86-304"
CAN/CSA	NRCAN (Natural Resources Canada)	CAN/CSA C22.3 No.7-M86	Underground Systems	4		4	Power Line Crossing Regulations, SOR/95-500
CAN/CSA	Data Protection	CAN/CSA-Q830-96	Model Code for the Protection of Personal Information	4		4	Personal information protection, PIPEDA.
SAC		GB/T 32399-2015	Cloud computing—Reference architecture	4		2	Adopted as a national standard, taken from ISO/IEC 17789, developed by JTC 1 SC 38
SAC		GB/T 32400-2015	Cloud computing— Overview and vocabulary	4		2	Adopted as a national standard, taken from ISO/IEC 17788, developed by JTC 1 SC 38
ETSI	Human Factors	EN 301 549	Accessibility requirements for ICT products and services	1	A standard commissioned by the EU specifically to deliver the	3	

					requirements as laid out in EU Mandate 376.		
IEC	Health Canada	IEC 61000-4-8:2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-11:2004	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-5:2005	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-6:2008	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-4-3:2006	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-3-3:2008	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes,	4		2	Medical Devices Regulations, SOR/98-282

			voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection				
IEC	Health Canada	IEC CISPR 11:2009/A MD1:2010	Amendment 1 - Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61000-3-2:2005+A MD1:2008 +AMD2:2009 CSV/COR 1:2009	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 61326-2-6:2012	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 60601-2-43:2010	Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 60601-1-2:2014	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests	4		2	Medical Devices Regulations, SOR/98-282
IEC	Health Canada	IEC 60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for	4		2	Medical Devices Regulations, SOR/98-282

			basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests				
IEC	TC (Transport Canada)	IEC 60533	Electrical and electronic installations in ships — Electromagnetic compatibility	4		2	Navigation Safety Regulations, SOR/2005-134
IEC	TC (Transport Canada)	IEC 61097-3	Global maritime distress and safety system (GMDSS) — Part 3: Digital selective calling (DSC) equipment — Operational and performance requirements, methods of testing and required testing results	4		2	Ship Station (Radio) Technical Regulations, 1999, SOR/2000-265
IEC	TC (Transport Canada)	IEC 61097-8	Global maritime distress and safety system (GMDSS) — Part 8: Shipborne watchkeeping receivers for the reception of digital selective calling (DSC) in the maritime MF, MF/HF and VHF bands — Operational and performance requirements, methods of testing and required test results	4		2	Ship Station (Radio) Technical Regulations, 1999, SOR/2000-265
IEC	TC (Transport Canada)	IEC 61097-12	Global maritime distress and safety system (GMDSS) -- Part 12: Survival craft portable two-way VHF radiotelephone apparatus -- Operational and performance requirements, methods of testing and required test results	4		2	Ship Station (Radio) Technical Regulations, 1999, SOR/2000-265
IEC	TC (Transport Canada)	IEC 61097-9	Global maritime distress and safety system (GMDSS) -- Part 9: Shipborne transmitters and receivers for use in the MF and HF bands suitable for telephony, digital selective calling (DSC) and narrow band direct printing (NBDP) -- Operational and performance	4		2	Ship Station (Radio) Technical Regulations, 1999, SOR/2000-265
IEC	TC (Transport Canada)	IEC 61097-5	Global maritime distress and safety system (GMDSS) -- Part 5: Inmarsat-E -- Emergency position	4		2	Ship Station (Radio) Technical Regulations, 1999, SOR/2000-265

			indicating radio beacon (EPIRB) operating through the Inmarsat System -- Operational and performance requirements, methods of testing and required test results				
IEC	TC (Transport Canada)	IEC 60872-1	Maritime Navigation and Radiocommunication Equipment and Systems - Radar Plotting Aids - Part 1: Automatic Radar Plotting Aids (ARPA) - Methods of Testing and Required Test Results	4		2	Navigation Safety Regulations, SOR/2005-134
IEC	TC (Transport Canada)	IEC 60872-3	Maritime Navigation and Radiocommunication Equipment and Systems - Radar Plotting Aids - Part 3: Electronic Plotting Aid (EPA) - Performance Requirements - Methods of Testing and Required Test Results	4		2	Navigation Safety Regulations, SOR/2005-134
IEC	TC (Transport Canada)	IEC 60936-1	Maritime navigation and radiocommunication equipment and systems Radar Part 1: Shipborne radar Performance requirements Methods of testing and required test results	4		2	Navigation Safety Regulations, SOR/2005-134
IEC	TC (Transport Canada)	IEC 60872-2	Marine Navigation and radiocommunication Equipment and Systems - Radar Plotting Aids - Part 2: Automatic Tracking AIDS (ATA) - Methods of Testing and Required Test Results	4		2	Navigation Safety Regulations, SOR/2005-134
IEC	Assessment of electric, magnetic and electromagnetic fields associated with human exposure	EN 50360:2017	Demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Radio Equipment Directive 2014/53/EU and applied to all 28 member states.
IEC	Assessment of electric, magnetic and	EN 50385:2017	Demonstrate the compliance of base station equipment with radiofrequency electromagnetic	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Radio Equipment

	electromagnetic fields associated with human exposure		field exposure limits (110 MHz - 100 GHz), when placed on the market.				Directive 2014/53/EU and applied to all 28 member states.
IEC	Assessment of electric, magnetic and electromagnetic fields associated with human exposure	EN 50401:2017	Demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when put into service	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Radio Equipment Directive 2014/53/EU and applied to all 28 member states.
IEC	Assessment of electric, magnetic and electromagnetic fields associated with human exposure	EN 50566:2017	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Radio Equipment Directive 2014/53/EU and applied to all 28 member states.
IEC	Assessment of electric, magnetic and electromagnetic fields associated with human exposure	IEC 62479-1	Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Low Voltage Directive 2014/35/EU and applied to all 28 member states.
IEC	Assessment of electric, magnetic and electromagnetic fields associated with human exposure	IEC 62232	Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure	4		2	IEC standard adopted globally and implemented in countries including Australia, Canada, South Africa and Japan.
IEC	Safety of electronic equipment within the field of audio/video, information technology and communication technology	IEC 60950-1	General requirements applied to mains-powered or battery-powered information technology equipment, including electrical business equipment and associated equipment, with a rated voltage not exceeding 600V	2		4	Original IEC TC 108 standard adopted and transposed by CENELEC in the EU for application under the EU Low Voltage Directive 2014/35/EU and applied to all 28 member states.

IEC	Safety of electronic equipment within the field of audio/video, information technology and communication technology	IEC 62368-1	Audio/video, information and communication technology equipment. Safety requirements	2		4	Original IEC TC 108 standard adopted and transposed by CENELEC in the EU for application under the EU Low Voltage Directive 2014/35/EU and applied to all 28 member states.
IEC	Power electronic systems and equipment	IEC 62040-1	Uninterruptible power systems (UPS) - Part 1: Safety requirements	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Low Voltage Directive 2014/35/EU and applied to all 28 member states.
IEC	Optical radiation safety and laser equipment	IEC 60825-1	Safety of laser products - Part 1: Equipment classification and requirements	2		4	Original IEC standard adopted and transposed by CENELEC in the EU for application under the EU Low Voltage Directive 2014/35/EU and applied to all 28 member states.
IEC	Performance of household and similar electrical appliances	IEC 62301	Household electrical appliances - Measurement of standby power	2		4	EU adopted standard under the Ecodesign for energy related products regulation, 2009/125/EU
IEC	Power electronic systems and equipment	IEC 62040-3	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	3		3	Original IEC standard adopted under US regulation "Energy Conservation Program: Energy Conservation Standards for Battery Chargers"
IEC	Nuclear Instrumentation	IEC 61513	computerized instrumentation and control systems of nuclear facilities	4		2	Russian Federation incorporate IEC 61513 in to their nuclear energy legislation NP-026 (2016)
IEC	Nuclear Instrumentation	IEC 60880	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category A functions	4		2	Russian Federation incorporate IEC 60880 in to their nuclear energy legislation NP-026 (2016)
IEC	Nuclear Instrumentation	IEC 62138	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category A functions	4		2	Russian Federation incorporate IEC 62138 in to their nuclear energy legislation NP-026 (2016)

IEC	Nuclear Instrumentation	IEC 62859	cyber security at nuclear facilities	4		2	Russian Federation incorporate IEC 62859 in to their nuclear energy legislation NP-026 (2016)
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 60945	General Requirements	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.694(17), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61023	Marine speed and distance measuring equipment	1	Applied as part of Speed and Distance Measuring Equipment (SDME), MSC.96(72), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-1	Radar transponder - Marine search and rescue	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.802(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-2	Satellite emergency position indicating radio beacon operating on 406 MHz	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.810(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-3	Digital selective calling (DSC) equipment	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.803(19), A.804(19), A.806(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication	IEC 61097-4	Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS),	1	

	n equipment and systems				A.807(19), United Nations, International Maritime Organization		
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-6	Narrowband direct-printing telegraph equipment for the reception of navigational and meteorological warnings and urgent information to ships (NAVTEX)	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), MSC.148(77), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-7	Shipborne VHF radiotelephone transmitter and receiver – Operational and performance requirements, methods of testing and required test results	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.803(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-8	Shipborne watchkeeping receivers for the reception of digital selective calling (DSC) in the maritime MF, MF/HF and VHF bands	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.803(19), A.804(19), A.806(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61097-9	Shipborne transmitters and receivers for use in the MF and HF bands suitable for telephony, digital selective calling (DSC) and narrow band direct printing (NBDP)	1	Applied as part of Global Maritime Distress and Safety Systems (GMDSS), A.806(19), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61108-1	Global positioning system (GPS)	1	Applied as part of Global Navigation Satellite Systems (GNSS), MSC.130(75), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication	IEC 61174	Electronic chart display and information system (ECDIS)	1	Applied as part of Electronic Chart Display and Information Systems (ECDIS),	1	

	n equipment and systems				MSC.232(82), United Nations, International Maritime Organization		
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61924-2	Modular structure for INS	1	Applied as part of Integrated Navigation Systems (INS), MSC.232(82), United Nations, International Maritime Organization	1	
IEC	Maritime navigation and radiocommunication equipment and systems	IEC 61993-2	Class A shipborne equipment of the automatic identification system (AIS)	1	Applied as part of Universal Automatic Identification Systems (UAIS), MSC.252(88), United Nations, International Maritime Organization	1	
ISO	Health Canada	ISO 14117:2012	Active implantable medical devices -- Electromagnetic compatibility -- EMC test protocols for implantable cardiac pacemakers, implantable cardioverter defibrillators and cardiac resynchronization devices	4		2	Medical Devices Regulations, SOR/98-282
IEEE	NRCAN (Natural Resources Canada)	IEEE 802.3-2008	Standard for Information Technology — Telecommunications and Information Exchange Between Systems — Specific requirements Part 3	4		2	Energy Efficiency Regulations, 2016, SOR/2016-311
OGF		OGF GFD-P-R.183	Open Cloud Computing Interface – Core	4		2	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
OGF		OGF GFD-P-R.184	Open Cloud Computing Interface - Infrastructure	4		2	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01
OGF		OGF GFD-P-R.185	Open Cloud Computing Interface - RESTful HTTP Rendering	4		2	US Adoption in to Information Technology Standards in the DoD regulation DoDI 8310.01

W3C	Web Content Accessibility Guidelines	WCAG 2.0	WCAG 2.0	4		1	De facto standard for web accessibility and applied to regulations including EU 2016/2102/EU "Accessibility of the websites and mobile applications of public sector bodies".
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5. Change history

Date	Version	Changes
November 2019	1.0	Initial version following first JTC 1 subcommittee survey
March 2023	2.0	Revision of document as standalone publication, with addition of supplementary survey data applied.
June 2023	2.1	Version approved by AG 15 and posted for JTC 1 general use.