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Information technology — Business ~~Operational View —~~ operational view —

Part 12: Privacy protection requirements (PPR) on information life cycle management (ILCM) and EDI of personal information (PI)

Technologies de l'information — Vue opérationnelle d'affaires —

Partie~~-~~ 12: Exigences en matière de protection de la vie privée (PPR) relatives à la gestion du cycle de vie de l'information (ILCM) et de l'EDI des renseignements personnels (PI)

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Foreword

ISO (the International Organization for Standardization) is a and IEC (the International Electrotechnical Commission) form the specialized system for worldwide federation of national standardsstandardization. National bodies (that are members of ISO member bodies). The workor IEC participate in the development of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. Internationalby the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documentsdocument should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 32, *Data management and interchange*.

This second edition cancels and replaces the first edition (ISO/IEC 15944-12:2020), of which has been technically revisedit constitutes a minor revision.

The main changes are as follows:.

— — Annex AAnnex A was revised to coordinate with other parts of ISO/IEC 15944

— — The whole document was updated and revised according to changes in the ISO/IEC Part 2 Directives and the introduction of the ISO House Style.

A list of all parts in the ISO/IEC 15944 series can be found on the ISO websiteand IEC websites.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.htmlwww.iso.org/members.html and www.iec.ch/national-committees.

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Introduction

NOTE This document is intended to be used in conjunction with ISO/IEC 14662, ISO/IEC 15944-1, ISO/IEC 15944-5 and ISO/IEC 15944-8.

0.1 0.1 Purpose and overview

Modelling business transactions using scenarios and scenario components includes specifying the applicable constraints on the data content using explicitly stated rules. ISO/IEC 14662 identifies two basic classes of constraints, "internal constraints" and "external constraints". External constraints apply to most business transactions. External constraints have governance over any processing of personal information including that exchanged among parties to a business transaction and doing so from an information life cycle management (ILCM) requirements perspective.

Jurisdictional domains are the primary source of external constraints on business transactions (see Annex C).Annex C). Privacy protection requirements in turn are a common requirement of most jurisdictional domains, although they may also result from explicit scenario demands from or on the parties involved in a business transaction. (Requirements for secrecy or confidentiality are not addressed in this document, unless they are implicitly needed to apply privacy protection requirements to data).

The focus of this document is on any kind of recorded information concerning identifiable living individuals as buyers in a business transaction or whose personal information is used in a business transaction or any type of commitment exchange.

This document describes the added business semantic descriptive techniques needed to support information life-cycle management (ILCM)ILCM aspects as part of privacy protection requirements when modelling business transactions using the external constraints of jurisdictional domains. ILCM aspects are central to the ability to ensure that privacy protection requirements (PPR) are passed on and supported among all the parties to a business transaction using EDI.

This document applies to any organization which receives, creates, process, maintains, communicates, etc. personal information (PI) and, in particular, to those who receive, create, capture, maintain, use, store or dispose of sets of recorded information (SRIs) electronically. This document applies to private and public sector activities of Persons irrespective of whether such activities are undertaken on a for-profit or not-for-profit basis.

This document is intended for use by those organizations to which privacy protection requirements apply and who therefore need to ensure that the recorded information (electronic records and transactions) in their IT Systems is trustworthy, reliable and recognized as authentic. Typical users of this document include:

a) a) managers of private and public sector organizations;

b) b) IT systems and records/information management system professionals;

c) c) privacy protection officers (PPOs) and other personnel in organizations, including those responsible for risk management; and

d) d) legal professionals and others within an organization responsible for information law compliance by the organization.

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0.2 Use of ISO/IEC 14662 and ISO/IEC 15944

0.2.1 ISO/IEC 14662: Open-edi reference model[1)]

ISO/IEC 14662[2)] states the conceptual architecture necessary for carrying out electronic business transactions among autonomous parties. That architecture identifies and describes the need to have two separate and related views of the business transaction.

The first is the business operational view (BOV). The second is the functional service view (FSV). Figure 1, taken from ISO/IEC 14662:2010, Figure 1, illustrates the Open-edi environment. (For definitions of the terms used, see Clause 3.)3.

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[1] The Memorandum of Understanding between ISO, IEC, ITU and UN/ECE (2000) concerning standardization in the field of electronic business is based on this *Model*.
See https://www.unece.org/fileadmin/DAM/oes/MOU/2000/24March2000_IEC_ISO_ITU.pdf.

1) The Memorandum of Understanding between ISO, IEC, ITU and UN/ECE (2000) concerning standardization in the field of electronic business is based on this *Model*.
See https://www.unece.org/fileadmin/DAM/oes/MOU/2000/24March2000_IEC_ISO_ITU.pdf.

[2] ISO/IEC 14662 is freely-available at https://standards.iso.org/ittf/PubliclyAvailableStandards/index.html.

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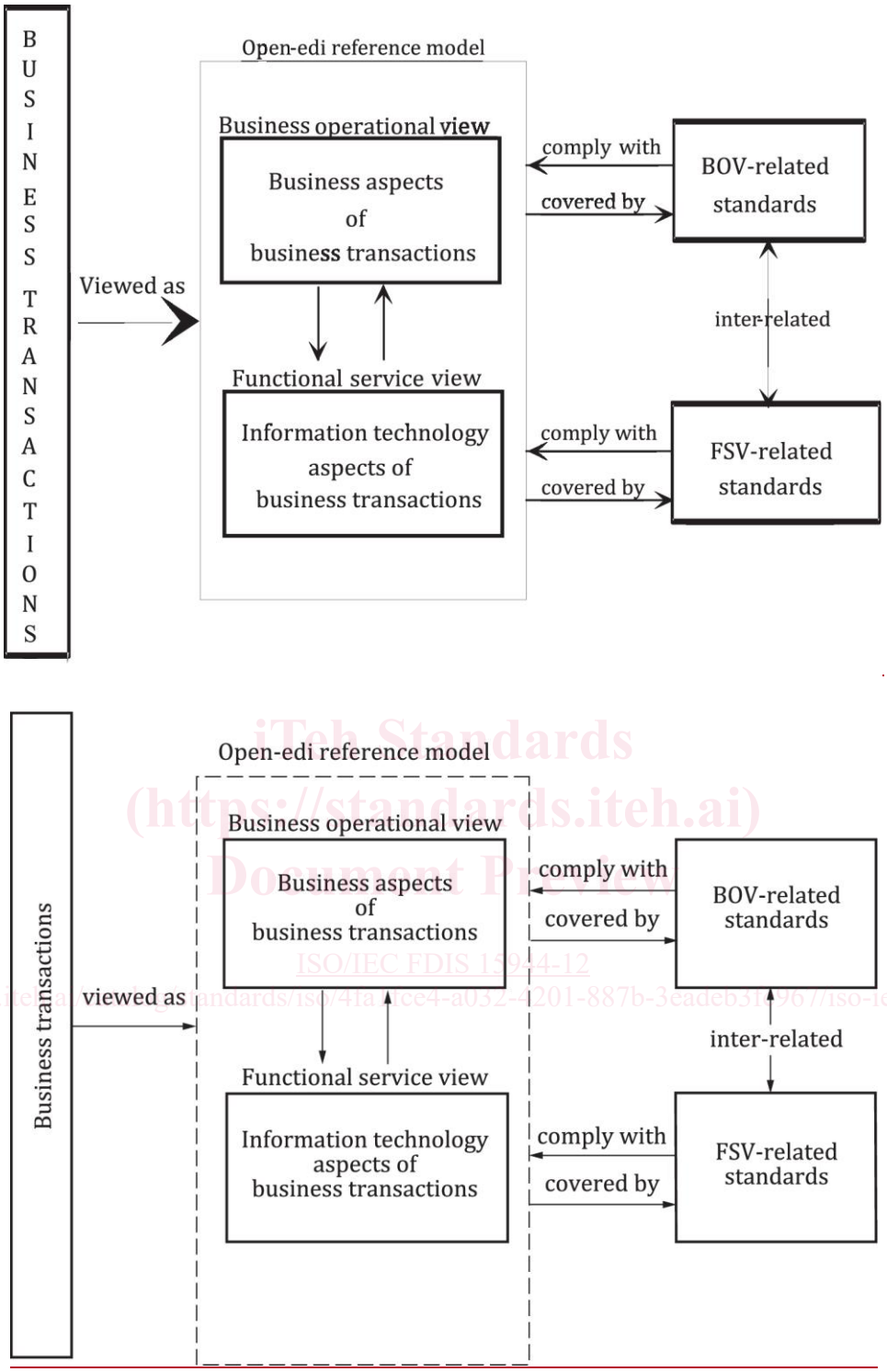

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Figure 1 1 — Open-edi reference model environment

ISO/IEC 15944 is a multipart eBusiness standard which is based on and focuses on the BOV perspective of the ISO/IEC 14662 Open-edi reference model. This document focuses on addressing commonly definable aspects of external constraints that relate to information life cycle management (ILCM) in a privacy and data

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protection~~3~~ 3) context when the source is a jurisdictional domain. A useful characteristic of external constraints is that, at the sectoral level, national and international levels, etc., focal points and recognized authorities often already exist. The rules and common business practices in many sectoral areas are already known. Use of this document (and related standards) addresses the transformation of these external constraints (business rules) into specified, registered, and re-useable scenarios and scenario components.

This document is based on ISO/IEC 14662 as well as existing parts of the ISO/IEC 15944 series, which serve as its key normative references and overall boundaries for the scope of this document. ISO/IEC 15944-5 and ISO/IEC 15944-8, in particular, serve as the basis for this document as they both focus on external constraints.

0.2.2 ~~0.2.2~~ ISO/IEC 15944-1: Business operational view (BOV) ~~— operational~~ — Operational aspects of Open-edi for implementation

ISO/IEC 15944-1 states the requirements of the BOV aspects of Open-edi in support of electronic business transactions. They are required to be taken into account in the development of business semantic descriptive techniques for modelling e-business transactions and components thereof as re-useable business objects. They include:

— ~~Commercial~~commercial frameworks and associated requirements~~.~~;

— ~~Legal~~legal frameworks and associated requirements~~.~~;

— ~~Public~~public policy requirements particularly which apply to individuals, i.e~~.,~~, are rights of individuals, which are of a generic nature such as consumer protection, privacy protection, and accessibility (see ISO/IEC 15944-5:2008, 6.3).

— ~~Requirements~~requirements arising from the need to support cultural adaptability. This includes meeting localization and multilingual requirements, (e.g~~.,~~, as can be required by a particular jurisdictional domain or desired to provide a good, service and/or right in a particular market). Here, one needs the ability to distinguish, the specification of scenarios, scenario components, and their semantics, in the context of making commitments, between:

a) ~~a)~~ the use of unique, unambiguous and linguistically neutral identifiers (often as composite identifiers) at the information technology interface level among the IT systems of participation parties on the one hand; and, on the other,

b) ~~b)~~ their multiple human interface equivalent (HIE) expressions in a presentation form appropriate to the Persons involved in the making of the resulting commitments.

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~~3 "Privacy protection" is the common set of worldwide requirements. In the European Union, "data protection" is the equivalent concept (used mainly due to historical reasons). In many other non-European countries, (Australia, Canada, New Zealand, USA, etc., "privacy" is the legal term used in applicable legislation and pursuant regulations. This is because "privacy" applies to not just "data" but any form of recorded information containing "personal information". Thus from an international standards perspective "privacy protection" integrates "privacy" and "data protection" requirements. In many other countries, "privacy" is the legal term used in applicable legislation and pursuant regulations.~~

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Figure 2,Figure 2, based on ISO/IEC 15944-1:2025, Figure 3, shows an integrated view of these business operational requirements. Since the focus of this document is that of external constraints for which jurisdictional domains are the primary source, these primary sources have been shaded in Figure 2.Figure 2.

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