

ISO/IEC 29187-1:2013-02 (E)

Information technology - Identification of privacy protection requirements pertaining to learning, education and training (LET) - Part 1: Framework and reference model

Contents		Page
Foreword	vii
0	Introduction	ix
0.1	Purpose and overview	ix
0.3	Informed consent and learning transaction	x
0.4	Use of "jurisdictional domain", jurisdiction, country	xi
0.5	Use of "Person", "individual", "organization", "public administration" and "person" in the context of a learning transaction	xii
0.6	Importance of definitions and terms	xiii
0.7	Standard based on rules and guidelines	xiv
0.8	Size of document and role of "Part 1 Framework and Reference Model"	xiv
0.9	Use of "identifier" (in a learning transaction)	xv
0.10	Use of "privacy protection" in the context of a commitment exchange and learning transaction	xv
0.11	Organization and description of document	xv
1	Scope	1
1.2	Statement of scope - part 1: Framework and Reference Model	1
1.3	Exclusions	1
1.3.1	Functional services view (FSV)	1
1.3.2	Overlap of and/or conflict among jurisdictional domains as sources of privacy protection requirements	2
1.3.3	Publicly available personal information	2
1.4	Aspects currently not addressed	3
1.5	IT-systems environment neutrality	6
2	Normative references	7
2.2	Referenced specifications	9
3	Terms and definitions	9
4	Symbols and acronyms	39
5	Fundamental principles and assumptions governing privacy protection requirements in learning transactions involving individual learners (external constraints perspective)	41
5.1	Introduction and sources of requirements	41
5.2	Exceptions to the application of the privacy protection principles	43
5.3	Fundamental Privacy Protection Principles	44
5.3.1	Privacy Protection Principle 1: Preventing Harm	44
5.3.2	Privacy Protection Principle 2: Accountability	44
5.3.3	Privacy Protection Principle 3: Identifying Purposes	48
5.3.4	Privacy Protection Principle 4: Informed Consent	48
5.3.5	Privacy Protection Principle 5: Limiting Collection	50
5.3.6	Privacy Protection Principle 6: Limiting Use, Disclosure and Retention	51
5.3.7	Privacy Principle 7: Accuracy	55
5.3.8	Privacy Protection Principle 8: Safeguards	56
5.3.9	Privacy Protection Principle 9: Openness	57
5.3.10	Principle 10: Individual Access	57
5.3.11	Privacy Protection Principle 11: Challenging Compliance	59
5.4	Requirement for tagging (or labelling) data elements in support of privacy protection requirements	60

6	Collaboration space and privacy protection	63
6.1	Introduction	63
6.2	Privacy collaboration space: Role of individual learner, LET provider and regulator	63
6.3	Learning collaboration space (of a learning transaction)	65
7	Public policy requirements of jurisdictional domains	67
7.1	Introduction	67
7.2	Jurisdictional domains and public policy requirements	67
7.2.1	Privacy protection	68
7.2.2	Consumer protection	69
7.2.3	Individual accessibility	70
7.2.4	Human rights	71
7.2.5	Privacy as a right of an "individual" and not right of an organization or public administration	72
7.2.6	Need to differentiate between "privacy protection" and "confidentiality", "security", etc .	72
8	Principles and rules governing the establishment, management and use of identities of an individual (and "individual learner")	73
8.1	Introduction	73
8.2	Rules governing the establishment of personae, identifiers and signatures of an individual	74
8.3	Rules governing the assignment of unique identifiers to an individual by Registration Authorities (RAs)	80
8.4	Rules governing individual identity (ies), authentication, recognition, and use	80
8.5	Legally recognized individual identity(ies) (LRIs)	85
9	Person component - individual sub-type	87
9.1	Introduction	87
9.2	Role qualification of a Person as an individual (learner)	87
9.3	Persona and legally recognized names (LRNs) of an individual	88
9.4	Truncation and transliteration of legally recognized names of individuals	88
9.5	Rules governing anonymization of individuals in a learning transaction	89
9.6	Rules governing pseudonymization of personal information in a learning transaction	91
10	Process component	93
10.1	Introduction	93
10.2	Planning	93
10.3	Identification	94
10.4	Negotiation	94
10.5	Actualization	94
10.6	Post-Actualization	95
11	Data (element) component of a learning transaction	97
11.1	Introduction	97
11.2	Rules governing the role of Learning Transaction Identifier (LTI) in support of privacy protection requirements	97
11.3	Rules governing state of change management of learning transactions in support of privacy protection requirements	98
11.4	Rules governing records retention of personal information in a learning transaction	99
11.5	Rules governing time/date referencing of personal information in a learning transaction	99
12	Conformance statement	101
12.1	Introduction	101
Annex A (normative) Consolidated list of terms and definitions with cultural adaptability: ISO English and ISO French language equivalency		103
A.1	Introduction	103
A.2	ISO English and ISO French	103
A.3	Cultural adaptability and quality control	103
A.4	Organization of Annex A - Consolidated list of definitions in matrix form	104

Annex B (normative) Learning Transaction Model (LTM): classes of constraints	149
B.1 Introduction	149
B.2 Fundamental components of a learning transaction	149
B.3 Learning Transaction Model (LTM) and its two classes of constraints	152
Annex C (normative) Integrated set of information life cycle management (ilcm) principles in support of information law compliance	155
C.1 Introduction	155
C.2 Purpose	155
C.3 Approach	156
C.4 Integrated set of information life cycle management (ILCM) principles	156
Annex D (normative) Coded domains for specifying state change and record retention management in support of privacy protection requirements	159
D.1 Introduction	159
D.2 State Changes	161
D.2.1 Introduction	161
D.2.2 Specification of state changes allowed to personal information	161
D.2.3 Store Change Type	163
D.3 Records retention	164
D.4 Records Destruction	168
E.1 Introduction	171
E.2 Relevance of Open-edi Reference Model	172
E.3 Basic aspects of Open-edi collaboration space: Buyer and seller	174
F.1 Introduction	177
F.2 Purpose	177
F.3 User requirements and issues identified by the SC36/AHP of sub-types of data in a LET context requiring privacy protection standard(s)	178
F.4 User requirements of specific LET needs pertaining to privacy issues	179
F.6 User requirements for Parts 2+ resulting from responses to JTC1/SC36/WG3 N360	179
Bibliography	181
2) Other	181
Figures	
Figure 1 -- Learning Transaction - Privacy Protection - Framework and Reference Model	xi
Figure 2 -- Primary Sources for Privacy Protection Principles	42
Figure 3 -- Privacy collaboration space (of a learning transaction) including the role of a regulator	.65
Figure 4 -- Learning collaboration space (of a learning transaction) including the role of a regulator (as well as "collective learner" and/or LET provider "consortium(s)")	66
Figure 5 -- Common public policy requirements, i.e., external constraints, applying to a learning transaction where the "buyer" is an "individual learner"	68
Figure 6 -- Illustration of relationships of links of a (real world) individual learner to (its) persona (e) to identification schemas and resulting identifiers to associated Person signatures -- in the context of different learning transactions and governing rules	75
Figure 7 -- Illustration of range of links between personae and identifiers of an individual identity (ies) of a learner	81
Figure 8 -- Illustration of two basic options for establishment of a recognized individual identity (rii)	84

Figure B.1 -- Learning Transaction Model - Fundamental components	150
Figure B.2 -- UML-based Representation of Figure B.1 - Learning Transaction Model	151
Figure B.3 -- Learning Transaction Model: Classes of constraints	154
Figure E.1 -- Open-edi environment - Open-edi Reference Model	171
Figure E.2 -- Learning Transaction - Privacy Protection - Framework Model	172
Figure E.3 -- Summary of 3 key roles in a learning transaction	173
Figure E.4 -- Concept of a Business Collaboration	175
Tables of Information Bundles and Semantic Components	162
Responsibility	166