

Document management —

Part 2: Metadata elements and information reference model

The European Standard EN 82045-2:2005 has the status of a
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National foreword

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The UK participation in its preparation was entrusted to Technical Committee GEL/3, Documentation and graphical symbols, which has the responsibility to:

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Document management
Part 2: Metadata elements and information reference model
(IEC 82045-2:2004)

Gestion de documents
Partie 2 : Eléments de métadonnées
et modèle d'information de référence
(CEI 82045-2:2004)

Dokumentenmanagement
Teil 2: Metadaten und
Informationsreferenzmodelle
(IEC 82045-2:2004)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 3/712/FDIS, future edition 1 of IEC 82045-2, prepared by IEC TC 3, Information structures, documentation and graphical symbols, in co-operation with SC 1, Basic conventions, and SC 8, Construction documentation, of ISO TC 10, Technical product documentation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 82045-2 on 2004-12-01.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2005-10-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2007-12-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 82045-2:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

ISO 7200	NOTE	Harmonized as EN ISO 7200:2004 (not modified).
ISO 9660	NOTE	Harmonized as EN 29660:1989 (not modified).
ISO 10303-11	NOTE	Harmonized as EN ISO 10303-11:1995 (not modified).
ISO 10303-31	NOTE	Harmonized as EN ISO 10303-31:1995 (not modified).
IEC 61286	NOTE	Harmonized as EN 61286:2002 (modified).
IEC 61360-1	NOTE	Harmonized as EN 61360-1:2002 (not modified).

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INTRODUCTION

This part of IEC 82045 presents information for the management of documents throughout their life cycle. It is based on the document concepts and the overall framework established in IEC 82045-1. It is composed of the following items:

- a) A table collecting metadata element identifiers and their language-dependent labels including their definitions etc., shown in Clause 8.
- b) Annex A: an EXPRESS based language-independent information model serving as an implementation-independent information reference model used in data exchange and for ease of implementation of document management systems. It provides the context of metadata elements associated with document management systems.
- c) Annex B: an XML (eXtensible Markup Language) DTD (Document Type Definition) based on the information reference model and the metadata collection.

These parts use different modelling methods, with different limitations:

- The EXPRESS modelling method, using entities, relations and attributes and by which a complex network of entities and relations can be modelled;
- The XML DTD modelling method, using elements and (XML) attributes, but with the limitation that it has to be hierarchical;
- The table of document attributes (metadata elements) with an entirely flat structure, incapable of expressing even hierarchical relations, but simple and sufficient for many purposes.

In order to make the resulting descriptions equivalent, starting from the EXPRESS model:

- to make the document attributes fit into the hierarchical DTD model some entities and relations must be specialised and also renamed to take account of their original relations.
- to make the attributes fit into the table structure, they need to be even further specialised and the complete structure hidden in the names (identifiers) of the attributes, to the extent necessary to make them unambiguous in the actual context.

Therefore the names (identifiers) used in the table are often slightly different, but related, to those used to identify corresponding attributes in the EXPRESS model or in the XML DTD.

Relation to ISO 10303

Within the ISO 10303 series, parts 212 [17] and 214 [18] ¹ have been developed using a common information model core. Both parts have been designed for the purpose of product data management in their respective application fields. Although the actual parts of ISO 10303 series contain some document related concepts they have not been developed focusing on document management requirements.

¹ Numbers in square brackets refer to the bibliography.

It was originally envisaged to extend the above model subset with respect to document management requirements whilst keeping the technology used within the ISO 10303 series. During the development of this part of IEC 82045 however, it was found that doing so would limit the application possibilities of this standard and would force system developers to implement implicitly also the technologies used within the ISO 10303 series.

Therefore, the EXPRESS reference model in this standard is independent of any part of ISO 10303, although relevant concepts have been reused where possible.

This standard provides a concept that allows establishing relations from the information model of this standard to any other object of interest available within an information model external to this standard. The approach chosen in this part of IEC 82045 allows establishing in a flexible way relationships to items of interest for a document management system, available in an external information system, for example a PDM (Product Data Management) system.

DOCUMENT MANAGEMENT –

Part 2: Metadata elements and information reference model

1 Scope

This part of IEC 82045 provides a comprehensive set of standardized metadata elements for document management in accordance with IEC 82045-1.

To enable this, a standardized EXPRESS-based information reference model [30] is provided in Annex A. The information reference model is the basis from which the metadata elements are derived.

The information reference model also provides a standardized framework for data exchange and a basis for the implementation of a document management system.

This document also provides a standardized DTD (Document Type Definition) based on the XML (eXtensible Markup Language) language for the purpose of document exchange, see Annex B.

It is directed towards end users of document management systems. The Annexes are in addition directed primarily to developers of software for such systems.

The document is intended as a general basic resource for document management.

This part of IEC 82045 does not specify physical locations nor arrangements of labels on documents, nor layouts of drawings, documents etc.

Physical implementation of the information reference model or exchange formats are not part of this standard.

NOTE Although sometimes closely related to the document management, the following items are outside of scope of this standard: planning, product data management, workflow management, configuration change management, and electronic file management. These items may, however, be referred to as external objects.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61346 (all parts), *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations*

IEC 61355:1997, *Classification and designation of documents for plants, systems and equipment*

IEC 82045-1:2001, *Document management – Part 1: Principles and methods*

ISO 31-0:1992, *Quantities and units – Part 0: General principles*

ISO 639-1:2002, *Codes for the representation of names of languages – Part 1: Alpha-2 code*

ISO/IEC 2382-1:1993, *Information technology – Vocabulary – Part 1: Fundamental terms*

ISO 3166-1:1997, *Codes for the representation of names of countries and their subdivisions – Part 1: Country codes*

ISO 5455:1979, *Technical drawings – Scales*

ISO 5457:1999, *Technical product documentation – Sizes and layout of drawing sheets*

ISO 8601:2000, *Data elements and interchange formats – Information interchange – Representation of dates and times*

ISO 10303-1:1994, *Industrial automation systems and integration – Product data representation and exchange – Part 1: Overview and fundamental principles*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this part of IEC 82045, the definitions of IEC 82045-1 and the following terms and definitions apply.

3.1.1

information model

conceptual model that describes a specific organization of data to provide communication for a given application context

[ISO 10303-1, 3.2.21, modified]

3.1.2

application reference model

information model that formally describes the information requirements and constraints for an application area

[ISO 10303-1, 3.2.8, modified]

3.1.3

data

representation of facts, concepts, or instructions in a formalized manner suitable for communication, interpretation, or processing by human beings or by automatic means

[ISO/IEC 2382-1, 01.01.02, modified]

3.1.4

context

frame of reference in which a construct is specified

[ISO 10303-1, 3.2.4, modified]

3.1.5

construct

concept or fact that is modelled

3.1.6

metadata element label

context-dependent word or phrase (string of characters) associated with a metadata element in a given language and intended for visual presentation

3.1.7

metadata element identifier

unambiguous language-independent name of the data element composed of a string of characters, based on the English language

3.2 Abbreviations

The following abbreviations are used in this document:

EDM	Electronic Document Management
EDMS	Electronic Document Management Systems
CC	Conformance Class
CR	Conformance Requirements
DMA	Document Management Activity
DTD	Document Type Definition
GUI	Graphical User Interface
IRV	International Reference Version
PDM	Product Data Management
PDMS	Product Data Management System
PICS	Protocol Implementation Conformance Statement
RFC	Request For Comment
XML	eXtensible Markup Language

4 Structure of the Metadata collection table

4.1 General

Table 4 (in Clause 8) serves as an information resource for document management. It is roughly structured following the lifecycle (see the number of DMA in 4.2) of a document from its initiation until deletion of a document in accordance with the phases defined in IEC 82045-1.

The table gathers the following information:

- No. (sequential number for reference purposes);
- DMA (Document Management Activity, see 4.2);
- Obl. (Obligation, see 4.3);
- the metadata element identifier (based on the English language but considered to be language-independent in order to be usable as identifier and therefore not to be translated), see 4.4;

- the label which is language-dependent; synonyms are separated by the character semicolon (;), see 4.5;
- definition of the metadata element, see 4.6;
- assigned predefined data values, if available; predefined values are identical to those occurring within the information reference model of Annex A, see 4.7;
- reference to the EXPRESS information reference model in Annex A, see 4.8;
- reference to the XML-based implementation in Annex B, see 4.9;
- references to other standards (if any); see 4.10.

The *metadata element identifiers* are *language-independent* and intended to be used as field identifiers in the communication of metadata and as identifiers for fields used for the entry of data. The concept structure behind each metadata element reflects the semantically correct mapping to the information reference model in Annex A.

The associated *labels* are *language-dependent* and normally used for the human readable, visual presentation of document management concepts, mostly occurring on documents and on the user interface of systems. They can be adapted to different language requirements, but need to be strictly adhered to each concept shown in the table, as otherwise the underlying common semantic is lost.

A wide variety of data element concepts, consequently also labels, shown in this table may occur repetitively.

As the information reference model describes the generic overall context of a document management system, it allows for a variety of possible combinations. Therefore neither the collection of data element identifiers nor the associated labels are considered to be complete with respect to the possibilities offered by the information reference model. However, the table gathers the most applied concepts.

4.2 No. and DMA (Document Management Activity)

These numbers are used for ordering of Table 4. The DMA numbers are defined in accordance with the following list, corresponding to activities (and support function for activities). References to IEC 82045-1 are given in brackets.

- a) Identification (6.2.2);
- b) Description (6.2.3);
- c) Classification (6.2.3);
- d) Activities and status (6.2.2);
- e) Preparation (6.3 and 6.6);
- f) Review (6.4.2 and 6.6.1);
- g) Approval (6.4.2 and 6.6.1);
- h) Release and effectivity (6.4.3 and 6.6.2);
- i) Security and access (6.2.3);
- j) Document relations to other objects (6.2.3);
- k) Document version history (6.2.3 and 6.6.1);
- l) Document references to other documents (6.2.3);

- m) Organizations persons and roles (6.2.2);
- n) File representation (6.5.2);
- o) Subscription (6.5.1);
- p) Distribution (6.5.1);
- q) Archiving (6.7).

4.3 Obl. (Obligation)

This table entry indicates with a letter M (Minimal set) those metadata considered as an absolute minimum for the implementation of a document management system, irrespective of process or application area. For further information on conformance requirements to this standard, refer to Clause 7.

4.4 Metadata identifier

4.4.1 General

The identifier of the metadata element is a string of characters, based on the English language. The identifier shall be unambiguous in the document management context.

The identifier is composed of one or more terms each starting with an upper case letter, followed by lower-case letters. Characters are limited to upper case and lower-case Latin letters (A – Z, a – z). The different terms are concatenated without any intermediate character.

4.4.2 Applied naming conventions

The information model provides entities with associated attributes. In order to reflect the different context-dependent semantics, the metadata identifier is in most cases composed of the entity name followed by the relevant attribute name, concatenated without any intermediate character. Each term starts with an upper-case letter.

Example:

Entity name:	Document
Associated attribute:	Id
Resulting metadata identifier:	DocumentId

In the case that the metadata identifier needs to be further qualified, the following method is used.

Example:

Generic metadata name:	DocumentId<qualifier> (or <Qualifier>DocumentId)
Resulting metadata name:	DocumentIdCustomer

Identifiers created in accordance with this convention are marked with an asterisk (*).

4.5 Metadata label

4.5.1 General

The label associated with a metadata element is a context dependent word or phrase (string of characters) in a given language and is intended for visual presentation, for example on documents and graphical user interfaces (GUI), for example on a screen menu.

4.5.2 Applied naming conventions

The information model provides entities with associated attributes. In order to reflect the different context-dependent semantics, the metadata label is composed of the entity name and the relevant attribute name. A label shall start with upper-case letters and then follow normal language dependant writing style; each term separated by the character SPACE SIGN (). Trademarks and commonly used expressions with a fixed pattern shall be used in the way they are defined.

NOTE 1 In the English language, the label starts with upper-case letters normally followed by lower-case letters; each term separated by the character SPACE SIGN ().

Example:

Entity name:	Document
Associated attribute:	id
Resulting metadata label:	Document id

In the case that the metadata label needs to be further qualified, the relevant qualifier is added. The resulting label shall be clearly understandable to the reader.

Example:

Generic metadata label:	Document id <qualifier>
Resulting metadata label:	Document id of customer

NOTE 2 The label text is not normative but it is strongly recommended that the labels on documents follow the proposal.

4.6 Definition

This column provides the definition of the metadata element valid within the context of this standard and derived from the information reference model in Annex A.

4.7 Predefined values

This column provides information about possible predefined values, if available. They are either quantitative values, for example digits, a date, or non-quantitative, for example any sequence of textual and special characters.

The values are either predefined or user defined. Any predefined value shall be identical with those associated to attributes in Annex A.

4.8 Reference to the EXPRESS information model

This column gives a reference between the defined metadata element and the information model provided in Annex A, by listing the relevant attributes involved.

NOTE Since the EXPRESS model has a network structure, more than one reference path is sometimes possible involving several entities, attributes and actual values of these. Therefore, the involved attributes are only listed.

4.9 Reference to the XML Document Type Definition (DTD)

This column provides cross-references between the defined metadata element and the XML-implementation presented in Annex B.

NOTE Since the XML DTD is hierarchical, is it possible to make an unambiguous reference from the table to the DTD by a description of the path in the latter.

4.10 Cross-references to other standards or recommendations

This column provides cross-references to other main standards or recommendations in this area. For more information, see Annex C.

NOTE For the list of references, see the Bibliography.

5 Rules for the presentation of metadata on/in documents

Labels appearing on documents should follow the requirements established in Clause 8.

This part of IEC 82045 does not specify physical locations nor arrangements of labels on documents, nor layouts of drawings, documents, etc.

6 Relations between IEC 82045-2 and other information models

This part of IEC 82045 provides a concept that allows establishing relations from the information model of Annex A, to any other entities of interest within another information model.

Due to the huge variety of possible entities of interest for a document management system, it is not possible to predefine in a standardized reference information model all possible relationships that may occur in applications. Therefore, instead of fixed relationships, a generic solution by applying adaptable relationships is favoured.

The approach chosen in this part allows establishing a business-driven flexible relationship between an EDM (see 3.2) and for example PDM (see 3.2) system concerning the relevant objects of interest for a document management system. See Figure 1. For more details, see Annex A.

In order to access an entity of interest within another information model, the complete path from the relevant entity within IEC 82045-2 via the information model name wherein the accessed entity resides needs to be established.

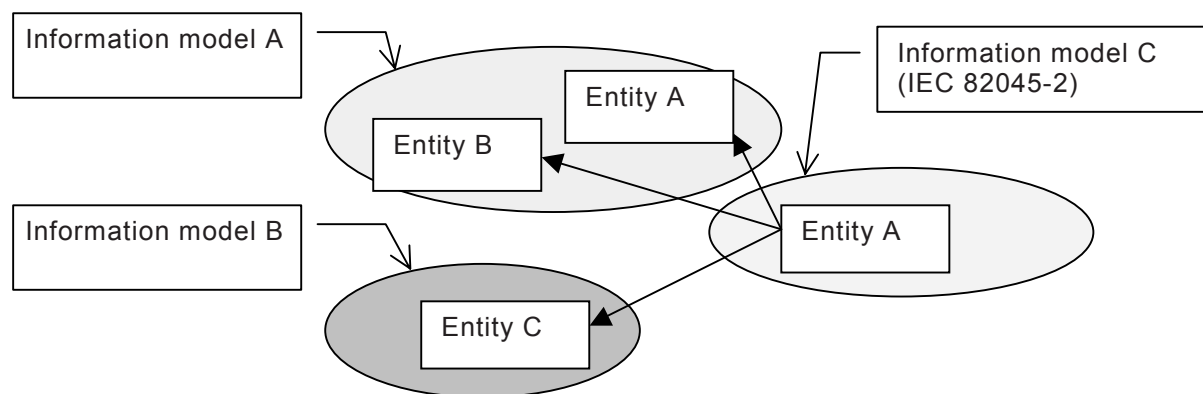


Figure 1 – Relations between IEC 82045-2 and other information models

7 Conformance requirements

7.1 General

Only within a defined process can the complete set of required data be defined. A *minimum set* is indicated in the column “Obl.” in Table 4.

The following subclauses provide the conformance classes specified within this part of IEC 82045. A user may select the appropriate conformance class according to his needs.

Each conformance class defines the degree of coverage with respect to the reference information model, including the associated metadata elements in accordance with Clause 8.

The implementation can on one hand refer to the implementation in a system and on the other to the extent a system can exchange metadata with other systems.

The conformance classes specified in this part of IEC 82045 specify a subset with relation to the information reference model, whereas the conformance requirements established in IEC 82045-1 (Clause 6) specify conformance to the document management process. The two types of conformance requirements are independent of each other and can be combined.

7.2 Conformance Class 1 (CC 1)

CC 1 supports a static document concept. It neither takes into account the life-cycle aspects of a document and its versions, nor the history nor the interrelations among documents and document versions. CC1 records document versions, however without providing information about their purpose and associated effectivity.

Table 1 provides an overview of the associated entities including its attributes as occurring in Annex A.

Table 1 – Entities assigned to CC 1

	Construct	List of entities as in Annex A
1	Identification	Document (see A.4.1); Document_id (see A.4.2); Document_id_domain (see A.4.3); Document_version (see A.4.5); Document_version_id (see A.4.6)
2	Release, Access, Security, Approval and Distribution management	RASAD_status (see A.4.45); RASAD_status_relationship (see A.4.46)
3	File representation	Digital_file (see A.4.25); Compound_document_file (see A.4.26); Stored_document_representation (see A.4.24); Date_and_time (see A.4.44)
4	Organizations, persons and roles associated with the preparation of documents within projects and contracts	Party (see A.4.13); Person (see A.4.14); Organization (see A.4.15); Party_role (see A.4.16); Address (see A.4.27); Postal_address (see A.4.28); Electronic_address (see A.4.29); Physical_address (see A.4.30); Party_to_address_relationship (see A.4.31); Party_relationship (see A.4.32); Contract (see A.4.17); Project (see A.4.18)
5	Description	Description (see A.4.11)
6	Classification	Document_class (see A.4.9); Classification system (see A.4.10)

As CC 1 neither provides implicit nor explicit information whether CC A or CC B as defined in IEC 82045-1 is used, a conformance statement CC 1 shall be accompanied with an explicit conformance statement with respect to IEC 82045-1.

NOTE Otherwise, the systematic used by the supplying organization in case of data exchange is not known.

7.3 Conformance Class 2 (CC 2)

CC 2 supports a dynamic document concept. It takes into account the life-cycle aspects of a document, its versions and revisions, the history and the interrelations among documents and its versions. In addition, it allows the referencing to objects of interest outside of the document management environment.

In addition to CC 1, the entities shown in Table 2 and associated attributes of the information model are required.

Table 2 – Additional entities assigned to CC 2

	Item	List of entities based on Annex A
1	Release of documents	Document_revision (see A.4.42)
2	Validity of documents	Effectivity (see A.4.41); Dated_effectivity (see A.4.42); time_interval_based_effectivity (see A.4.43)
3	Document relations to other objects	Document_version_external_object_reference_relationship (see A.4.33) external_object_reference (see A.5.1)
4	Relationship between documents	Document_relationship (see A.4.4); Document_version_relationship (see A.4.7)
5	Logbook	Logbook_entry (see A.4.12)

NOTE CC 2 provides explicit information about the usage of CC A or CC B as defined in IEC 82045-1 (via the usage of the document version relationships); therefore an explicit conformance statement with respect to IEC 82045-1 need not be given.

7.4 Conformance Class 3 (CC 3)

CC 3 supports distribution and subscription of documents according to a defined distribution profile with associated actions and included delivery confirmation. It supports the archiving of documents stored on any type of carrier medium at any location. In addition, it allows referring to any document managed outside the own document management system.

In addition to CC 2, the entities shown in Table 3 and associated attributes of the information model are required.

Table 3 – Additional entities assigned to CC 3

	Item	List of entities based on Annex A
1	References to external documents	External_document (see A.5.1)
2	Distribution and subscription	Distribution (see A.4.35); Subscription_list (see A.4.36), Party_in_subscription_list (see A.4.37); Document_version_distribution_relationship (see A.4.40); Recipient (see A.4.38); Recipient_action_on_document_version (see A.4.39)
3	Archiving	Carrier (see A.4.20); Location (see A.4.19); Medium (see A.4.21); Medium_characteristics (see A.4.22); Document_representation_carrier_relationship (see A.4.23)

The conformance class CC 3 uses the entire information model (content and structure) described in Annex A. CC 3 is intended to support advanced document management systems.

NOTE CC 3 provides explicit information about the usage of CC A or CC B as defined in IEC 82045-1 (via the usage of the document version relationships). Therefore an explicit conformance statement with respect to IEC 82045-1 need not be given.

8 Metadata resource for document management

Table 4 – Collection of metadata

For metadata identifiers marked with an asterisk, refer to 4.4.

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
1	1		DocumentIdDomainId*	Domain id	Identifier for a document identification system. The domain id defines to which identification system a DocumentId belongs. It can be defined globally for a document management system, for a subset of documents or for each document individually.		A.4.3.1	/Document/DocumentId[@DomainId] Attribute value of <i>DomainId</i> .	
2	1	M	DocumentId	Document id	Identifier for a document within a domain, which is either implicit or explicitly provided using the DocumentIdDomainId. NOTE A document may be associated with one or many identification systems. The leading identification system, i.e. the primary identification is that one from the organization managing the documents.		A.4.2.1	/Document/DocumentId or /Document/DocumentId[@DomainId] Element value of <i>DocumentId</i> .	ISO 7200:2004; Identification number ISO 15836: Identifier
3	1	M	DocumentVersionId	Version id; Version index	Identifier of the state of a document version within its life cycle. Applicable in addition to DocumentId.		A.4.6.1	/Document/DocumentVersion/DocumentVersionId Element value of <i>DocumentVersionId</i> .	
4	1	M	DocumentRevisionId	Revision id; Revision index	Identifier of a formally approved or intended to be approved document version. Applicable in addition to DocumentId.		A.4.34.3	/Document/DocumentVersion/DocumentRevision/RevisionId Element value of <i>RevisionId</i> .	ISO 7200:2004; Revision Index

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
5	1	M	LanguageCode	Language code	Identifier of the language(s) used in the document version according to ISO 639-1. NOTE For multilingual documents, several codes in accordance with ISO 639-1 need be given.		A.4.11.1	/Document/DocumentVersion/ LanguageCode Element value of <i>LanguageCode</i> .	ISO 7200: 2004; Language code ISO 15836: Language
6	1		DocumentIdPrimary*	Primary document id	Identifier for the document in the identification system used by the managing organization.		A.4.1.2	/Document/DocumentId[@DomainId @IdType="Primary"] Element value of <i>DocumentId</i>	
7	1		DocumentIdCustomer*	Customer document id	Identifier for a document within an implicit organization acting in the role of a customer.		A.4.15.1 A.4.16.3 A.4.2.1 A.4.3.1	/Document/DocumentId[@DomainId="CustomerDomainId"] Element value of <i>DocumentId</i> .	ISO 7200: 2004; Identification number ISO 15836: Identifier
8	1		DocumentIdSupplier*	Supplier document id	Identifier for a document within an implicit organization acting in the role of supplier.		A.4.15.1 A.4.16.3 A.4.2.1 A.4.3.1	/Document/DocumentId[@DomainId="SupplierDomainId"] Element value of <i>DocumentId</i> .	ISO 7200: 2004; Identification number ISO 15836: Identifier
9	1		DocumentIdIsbn*	ISBN document id	Identifier of a document used within the domain of the International System for Book Numbering (ISBN).		A.4.15.1 A.4.16.3 A.4.2.1 A.4.3.1	/Document/DocumentId[@DomainId="ISBN"] Element value of <i>DocumentId</i> .	ISO 7200: 2004; Identification number ISO 15836: Identifier
10	1		DocumentVersionIdEdms*	EDMS version id	Identifier for a managed document version based on the identification system used in within the domain "EDMS".		A.4.6.1 A.4.3.1	/Document/DocumentVersion/DocumentVersionId[@DomainId="EDMS"] Element value of <i>DocumentVersionId</i> .	

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
11	1		DocumentPartId	Document part id; page number	Identifier of a document as a logical part of an aggregated document. See IEC 82045-1, Clause 4.3.3. This identifier is used together with the identifier of the aggregated document.		A.4.2.1	/Document/DocumentPartId Element value of the <i>DocumentId</i> .	ISO 7200: 2004; Segment/she et number; Page number
12	2	M	Title	Title	Short clear text description of the content of the document. NOTE A title may have different language variants.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/Description/Title[@LanguageCode] Element value of <i>Title</i> .	ISO 7200: 2004; Title ISO 15836: Title
13	2	M	Summary	Summary; Abstract	Long clear text description of the content of the document. NOTE A summary may have different language variants.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/Description/Summary[@LanguageCode] Element value of <i>Summary</i> .	ISO 15836: Description
14	2	M	Keywords	Keywords	Free list of words associated with the document content, intended for retrieval of the document. These keywords may be based on a maintained thesaurus. Compare classification. NOTE A Keyword may have different language variants.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/Description/Keywords[@LanguageCode] Element value of <i>Keywords</i> .	ISO 7200: 2004; Classification /Key words ISO 15836: Subject or Key words
15	2	M	RevisionText	Revision text	Short description of the changes made to the document at an identified revision. NOTE A revision text may have different language variants.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/DocumentRevision/RevisionText[@LanguageCode] Element value of <i>RevisionText</i> .	
16	3		DocumentClassificationSystemId	Document classification system	Identifier of the document classification system.		A.4.10.1	/Document/DocumentClassification[ClassificationSystemId] Attribute value of <i>ClassificationSystemId</i>	
17	3		DocumentClassId	Document class code	Identifier of a document class according to a classification scheme as specified by the <i>DocumentClassificationSystemId</i> .		A.4.9.1	/Document/DocumentClassification[ClassificationSystemId]/ClassId Element value of <i>ClassId</i> .	

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
18	3		DocumentClassName	Document class name	Document classification description according to a classification scheme identified by the DocumentClassificationSystemId.		A.4.9.3 A.4.11.1	/Document/DocumentClassification[@ClassificationSystemId]/ClassName[@LanguageCode] Element value of <i>ClassName</i> .	ISO 7200: 2004; Document type; ISO 15836: Type
19	3		DocumentClassIdIEC61355*	IEC 61355 document class code; Document kind code; DCC	Identifier of a document classification in accordance with IEC 61355.		A.4.9.1	/Document/DocumentClassification[@ClassificationSystemId="IEC61355"]/ ClassId Element value of <i>ClassId</i> .	
20	3		DocumentClassNameIEC61355*	IEC 61355 document class; Document kind	Document classification description based on the classification scheme of IEC 61355.		A.4.9.3 A.4.11.1	/Document/DocumentClassification[@ClassificationSystemId="IEC61355"]/ ClassName[@LanguageCode] Element value of <i>ClassName</i> .	ISO 7200: 2004; Document type; ISO 15836: Type
21	3		DocumentClassIdISO5457*	Coded presentation size; Sheet size	Identifier of a document classification code for the intended physical paper sheet size of a document in accordance with ISO 5457.		A.4.9.1	/Document/DocumentClassification[@ClassificationSystemId="ISO5457"]/ ClassId Element value of <i>ClassId</i> .	ISO 7200: 2004; Paper size
22	3		DocumentClassIdISO5455*	Coded representation scale	Identifier of a document classification with regard to the intended scaling factor applied in the document based on ISO 5455		A.4.9.1	/Document/DocumentClassification[@ClassificationSystemId="ISO5455"]/ ClassId Element value of <i>ClassId</i> .	
23	3		DocumentClassNameExportRestrictions*	Export restrictions	Document classification with regard to a classification system focusing on export restrictions, issued by an implicit Export Restrictions body		A.4.9.3 A.4.11.1 A.4.10.1	/Document/DocumentClassification[@ClassificationSystemId="(Export Restrictions system name)"]/ClassName[@LanguageCode] Element value of <i>ClassName</i> .	



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
24	4		Status	Status	Status with regard to the result of an activity associated with the document.	Initiated; InPreparation; InReview; Approved; Released; Withdrawn; Deleted; Rejected; Accepted with comments; Accepted; Not approved; Approved with comments; Replaced by; Replaced for; Request for ...	A.4.45.10	The generic RASAD status is in the DTD split in specialized types, e.g. <i>LifeCycleStatus</i> : /Document/DocumentVersion/LifeCycleStatus Element value of <i>LifeCycleStatus</i>	
25	4		StatusLifeCycle*	Life cycle status	Status of the document version with respect to its life cycle.	Initiation; Preparation; Establishment; Use; Revision; Withdrawal; Deletion	A.4.45.10	/Document/DocumentVersion/LifeCycleStatus Element value of <i>LifeCycleStatus</i>	ISO 7200:2004; Document status
26	4		Purpose	Purpose	Reason for performing the activity.		A.4.45.2	/Document/DocumentVersion/LifeCycleStatus/[@Purpose] Attribute value of <i>Purpose</i> .	
27	4		Date	Date	Date when the status was set.		A.4.45.4	/Document/DocumentVersion/LifeCycleStatus/[@SetDate] Attribute value of <i>SetDate</i> .	



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
28	4		Person	Person	Name of the individual person acting on behalf of a defined organization having performed the specified activity with regard to the setting of the status.		A.4.14.3 A.4.15.2 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus/Party[@Role="PerformedBy"]/Person[@PersonName] Attribute value of <i>PersonName</i> .	
29	4		Organization	Organization	Name of the organization having set the status.		A.4.15.2 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus/Party[@Role="PerformedBy"]/Organization[@OrganizationName] Attribute value of <i>OrganizationName</i> .	
30	4		OrganizationalUnit*	Organizational unit	Designation of the organizational unit within a specified organization		A.4.15.2	/Document/DocumentVersion/LifeCycleStatus/Party[@Role="PerformedBy"]/Organization[@OrganizationalUnit] Attribute value of <i>OrganizationalUnit</i> .	ISO 7200: 2004; Responsible department
31	4		BasedOn	Based on	Reference to document(s) providing the procedure for the setting of the status.		A.4.4.5	/Document/DocumentVersion/LifeCycleStatus/[@BasedOnProcedure] Attribute value of <i>BasedOnProcedure</i> .	ISO 15836: Source
32	4		Comments	Comments	Clear text description of observations associated with the setting of the status.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/LifeCycleStatus[@Comments] Attribute value of <i>Comments</i> .	
33	4		EffectiveDate	Effective date	Date when the status will come into force.		A.4.42.1	/Document/DocumentVersion/LifeCycleStatus/Effectivity[EffectiveDate] Attribute value of <i>EffectiveDate</i> .	ISO 15836: Coverage
34	4		ExpiredDate	Expire date	Date when the status will cease to be in force.		A.4.42.2	/Document/DocumentVersion/LifeCycleStatus/Effectivity[ExpiredDate] Attribute value of <i>ExpiredDate</i> .	ISO 15836: Coverage
35	5		CreateDate*	Create date; Preparation date	Date when the preparation of the document version was finished.		A.4.45.4 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Initiated" @SetDate] Attribute value of <i>SetDate</i> .	ISO 15836: Date



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
36	5	M	CreatorName*	Creator; Author	Name of the individual person having created the document.		A.4.14.3 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Initiated"]/Party[@Role="PerformedBy"]/Person[@PersonName] Attribute value of <i>PersonName</i>	ISO 7200:2004; Creator ISO 15836:Creator
37	5	M	CreatorOrganization*	Creator organization; Author organization	Name of the organization acting in the role of the creator of the document.		A.4.15.2 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Initiated"]/Party[@Role="PerformedBy"]/Organization[@OrganizationName] Attribute value of <i>OrganizationName</i> .	
38	6		ReviewStatus*	Review status	Status with regard to the result of the review of the document version.	Rejected; Accepted with comments; Accepted	A.4.45.10	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="InReview"]/Establishment/ReviewStatus [@StatusValue] Attribute value of <i>StatusValue</i> .	
39	6		ReviewPurpose*	Review purpose	Reason for performing the review.		A.4.45 A.4.45.2	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="InReview"]/Establishment/ReviewStatus[@Purpose] Attribute value of <i>Purpose</i> .	
40	6		ReviewDate*	Review date	Date of the finishing of the review of the document version.		A.4.45.4 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="InReview"]/Establishment/ReviewStatus [@SetDate] Attribute value of <i>SetDate</i> .	



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
41	6		ReviewedByPerson*	Reviewer; Reviewed by; Checked by	Name of the individual person having reviewed the document version.		A.4.14.3 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="InReview"]/Establishment/ReviewStatus/Party[@Role="PerformedBy"]/PersonName Attribute value of <i>PersonName</i> .	
42	6		ReviewedByOrganization*	Reviewer organization	Name of the organization acting in the role of the reviewer of the document version.		A.4.15.2 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="InReview"]/Establishment/ReviewStatus/Party[@Role="PerformedBy"]/OrganizationName Attribute value of <i>OrganizationName</i> .	
43	6		ReviewBasedOn*	Review based on	Reference to document(s) describing the procedure on which the review is based.		A.4.45.7	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="InReview"]/Establishment/ReviewStatus[@BasedOnProcedure] Attribute value of <i>BasedOnProcedure</i> .	
44	6		ReviewComments*	Review comments	Clear text description of required modifications associated with the reviewed document version.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="InReview"]/Establishment/ReviewStatus[@Comments] Attribute value of <i>Comments</i> .	
45	7		ApprovalStatus*	Approval status	Status of the document version with respect to approval(s).	Not approved; Approved with comments; Approved;	A.4.45.10	/Document/DocumentVersion/LifeCycleStatus/Establishment/ApproveStatus[@StatusValue] Attribute value of <i>StatusValue</i> .	
46	7		ApprovalPurpose*	Approval purpose	Reason for performing the approval.		A.4.45.2 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="Approved"]/@Purpose Attribute value of <i>Purpose</i> .	

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
47		7	ApprovalDate*	Approval date	Date of approval of the document version		A.4.45.4	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Approved" @SetDate] Attribute value of SetDate.	
48		7	ApprovedByPerson*	Approved by; Approver	Name of the individual person having approved the document version		A.4.14.3 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Approved"] / Party [@Role="PerformedBy"] / PersonName Attribute value of PersonName.	ISO 7200: 2004; Approval person
49		7	ApprovedByOrganization*	Approver organization	Name of the organization acting in the role of the approver of the document version.		A.4.15.2 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Approved"] / Party [@Role="PerformedBy"] / OrganizationName Attribute value of OrganizationName.	
50		7	ApprovalBasedOn*	Approval based on	Reference to document(s) on which the approval is based.		A.4.45.7 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Approved" @BasedOnProcedure] Attribute value of BasedOnProcedure.	
51		7	ApprovalComments*	Approval comments	Comments on behalf of the person acting in the role of the approver of the document version.		A.4.11.1 A.4.11.2 A.4.11.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Approved" @Comments] Attribute value of Comments.	
52		8	ReleasePurpose*	Release purpose; Issue purpose, Maturity level	Reason for the release of the document version.	For ...	A.4.45.2 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released" @Purpose] Attribute value of Purpose.	
53		8 M	ReleaseDate*	Release date; Date of issue	Date of the setting of the release status.		A.4.45.4 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released" @SetDate] Attribute value of SetDate.	ISO 7200: 2004 Date of issue

No	D M A	O b l.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
54	8		ReleasedByPerson*	Released by; Releaser	Name of the individual person having released the document version.		A.4.14.3 A.4.16.3	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released"]/Party[@Role="PerformedBy"]/PersonName Attribute value of <i>PersonName</i> .	
55	8		ReleasedByOrganization*	Releasing organization	Name of the organization acting in the role of the releaser of the document version.		A.4.15.2 A.4.16.3 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus[@StatusValue="Released"]/Party[@Role="PerformedBy"]/OrganizationName Attribute value of <i>OrganizationName</i> .	ISO 15836: Publisher
56	8		ReleaseBasedOn*	Release based on	Reference to document(s) on which the release is based.		A.4.45.7 A.4.45.10	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released"] BasedOnProcedure Attribute value of <i>BasedOnProcedure</i>	
57	8		ReleaseComments*	Release comments	Comments on behalf of the person acting in the role of the releaser of the document version.		A.4.11.1 A.4.11.2 A.4.11.3	//Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released"] @Comments Attribute value of <i>Comments</i> .	
58	8		ReleaseEffectiveDate*	Release effective date	Date when the release status will come into force.		A.4.42.1	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released"]/Effectivity[@EffectiveDate] Attribute value of <i>EffectiveDate</i> .	ISO 15836: Coverage
59	8		ReleaseExpireDate*	Release expire date	Date when the release status will cease to be in force.		A.4.42.2	/Document/DocumentVersion/LifeCycleStatus [@StatusValue="Released"]/Effectivity[@ExpireDate] Attribute value of <i>ExpireDate</i> .	ISO 15836: Coverage



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
60	9		AccessRightsProfile	Authorization; Access rights profile	Person or group and their associated allowed operations on the document. NOTE The access rights associated to a document might change during the life cycle of the document.		A.4.13.2 A.4.14.3 A.4.15.2 A.4.45.3	/Document/DocumentVersion/Authorization[@AccessRight="Read Write ..."]/Party[@Role="AffectedBy"]/PersonName or .../OrganizationName Attribute value of <i>PersonName</i> or <i>OrganizationName</i>	
61	9	M	SecurityLevel*	Security level; Security grading	Degree of required protection against fraudulent access to the document. NOTE The security level might change over time without changing the document version.		A.4.45.3	/Document/DocumentVersion/SecurityLevel[@SecurityStatus] Attribute value of <i>SecurityStatus</i> .	
62	9		SecurityLevelByPerson*	Security level set by	Name of the individual person that has set the security level.		A.4.14.3 A.4.45.3	/Document/DocumentVersion/SecurityLevel[@SecurityStatus]/Party[@Role="PerformedBy"]/Person[@PersonName] Attribute value of <i>PersonName</i> .	
63	9		SecurityLevelByOrganization*	Security level set by	Name of the organization that has set the security level.		A.4.15.2 A.4.45.3	/Document/DocumentVersion/SecurityLevel[@SecurityStatus]/Party[@Role="PerformedBy"]/Organization[@OrganizationName] Attribute value of <i>OrganizationName</i> .	ISO 15836: Rights
64	9		SecurityLevelBasedOn*	Security level based on	Reference to document(s) on which the security level is based.		A.4.45.7	/Document/DocumentVersion/SecurityLevel[@SecurityStatus @BasedOnprocedure] Attribute value of <i>BasedOnProcedure</i> .	
65	9		SecurityLevelEffectiveDate*	Security level effective date	Date when the security level will come into force.		A.4.42.1	/Document/DocumentVersion/SecurityLevel[@SecurityStatus/Effectivity @EffectiveDate] Attribute value of <i>EffectiveDate</i> .	ISO 15836: Date

No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
66	9		SecurityLevel ExpireDate*	Security level Expire date	Date when the assigned security level will cease to be in force.		A.4.42.2	/Document/DocumentVersion/SecurityLevel[@SecurityStatus]/Effectivity[@ExpireDate] Attribute value of <i>ExpireDate</i> .	ISO 15836: Date
67	10		ReferencedObjectId	Reference to object id	Identifier of an object being described in or by the document.		A.5.1.1	/Document/DocumentVersion/ReferencedObjectId[@Type] Element value of <i>ReferencedObjectId</i>	
68	10		ReferencedObjectIdURL*	Reference to object id URL	Identifier of an object being described by the URL		A.5.1.1 A.5.1.3	/Document/DocumentVersion/ReferencedObjectId[@Type="URL"] Element value of <i>ReferencedObjectId</i>	
69	10		ProjectId*	Project id	Identifier of a project within an organization.		A.4.18.2	/Document/DocumentVersion/ReferencedObjectId[@Type="Project"] Element value of <i>ReferencedObjectId</i> .	
70	10		ProjectName*	Project name	Clear text description of a project shared by all involved organizations within a project.		A.4.18.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Project"] @Description Attribute value of <i>Description</i> .	
71	10		OwnerProjectId*	Owner project id	Organization-bound identifier of a project within an organization acting in the role of the owner.		A.4.18.2 A.4.15.2 A.4.16.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Project"] @ReferenceQualifier="Owner" Element value of <i>ReferencedObjectId</i> .	
72	10		CustomerProjectId*	Customer project id	Organization-bound identifier of a project within an organization acting in the role of the customer.		A.4.18.2 A.4.15.2 A.4.16.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Project"] @ReferenceQualifier="Customer" Element value of <i>ReferencedObjectId</i> .	
73	10		SupplierProjectId*	Supplier project id	Organization-bound identifier of a project within an organization acting in the role of the supplier.		A.4.18.2 A.4.15.2 A.4.16.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Project"] @ReferenceQualifier="Supplier" Element value of <i>ReferencedObjectId</i> .	



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
74	10		ContractId*	Contract id	Identifier of a contract shared by all involved organizations.		A.4.17.2	/Document/DocumentVersion/ReferencedObjectId[@Type="Contract"] Element value of <i>ReferencedObjectId</i> .	
75	10		WorkOrderId*	Work order id	Identifier of a work order based on a defined identification system used by a defined organization.		A.5.1.1 A.5.1.3	/Document/DocumentVersion/ReferencedObjectId[@Type="WorkOrder"] Element value of <i>ReferencedObjectId</i>	
76	10		ProductId*	Product id	Identifier of a product described in the document.		A.5.1.1 A.5.1.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Product"] Element value of <i>ReferencedObjectId</i> .	
77	10		OccurrenceIdIEC61346*	Reference designation	Identifier of an object occurrence within a system, for example a plant, described in the document in accordance with IEC 61346		A.5.1.1 A.5.1.3	/Document/DocumentVersion/ReferencedObjectId[@Type="IEC61346"] Element value of <i>ReferencedObjectId</i> .	
78	10		IndividualId*	Serial number	Identifier of an individual specimen of an object type described in the document.		A.5.1 A.5.1.3	/Document/DocumentVersion/ReferencedObjectId[@Type="Individual"] Element value of <i>ReferencedObjectId</i> .	
79	11		BasedOnDocumentId	Based on document id	Identifier of the document(s) on which the actual document version is based.		A.4.4.5	/Document/DocumentRelationship[@Type="BasedOn"]/DocumentId Element value of <i>DocumentId</i> .	ISO 15836: Source
80	11		BasedOnDocumentRevisionId	Based on document revision id	Revision index of the document on which the actual document version is based.		A.4.4.5	/Document/DocumentVersion/DocumentRelationship[@Type="BasedOn"]/RevisionId Element value of <i>RevisionId</i> .	
81			SupersedingDocumentId	Superseding; Replacing;	Identifier of a document which is superseded by the actual document.		A.4.4.5	/Document/DocumentRelationship[@Type="Superseding"]/DocumentId Element value of <i>DocumentId</i> .	



No	D M A	O bl.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
82	11		SupersededByDocumentId	Superseded by; Replaced by	Identifier of a document which supersedes the actual document.		A.4.4.5	/Document/DocumentRelationship[@Type="SupersededBy"]/DocumentId. Element value of DocumentId.	
83	12		DocumentRelationshipType	Document relationship type	Type of relationship between different documents.		A.4.4.5	/Document/DocumentRelationship[@Type="specified"] Attribute value of Type.	
84	12		ReferredDocumentId	Referred document id	Identifier of document(s) associated with the actual document version. NOTE References can be made to - Documents under the control of the document management system - (external) documents being not under control of the document management system.		A.4.4.4 A.4.4.3 A.4.4.5 Alternative: A.4.8.1	/Document/DocumentVersion/DocumentRelationship[@Type="Refersto"]/DocumentId Element value of DocumentId.	
85	12		ReferredDocumentRevisionId	Referred document revision id	Revision index of the document(s) associated with the actual document version. NOTE References can be made to document versions under the control of the document management system. References to (externally) managed document versions not being under the control of the document management system are not explicitly supported.		A.4.7.3 A.4.7.4 A.4.7.5	/Document/DocumentVersion/DocumentRelationship[@Type="Refersto"]/RevisionId Element value of RevisionId.	
86	13	M	OrganizationOwner*	Owner organization	Name of the organization being the legal owner of the document.		A.4.15.2 A.4.16.3	/Document/Party[@Role="Owner"]/Organization[@OrganizationName] Attribute value of OrganizationName.	ISO 7200: 2004; Legal owner



No	D M A	O b l.	Metadata identifier	Label (en); Synonyms	Definition	Predefined values	EXPRESS model in Annex A	Path to element in the DTD in Annex B (XPath notation)	References
87	13		OrganizationResponsible*	Responsible organization	Name of the organization being responsible of managing the document in a defined way.		A.4.15.2 A.4.16.3	/Document/Party[@Role="Responsible"]/ Organization[@OrganizationName] Attribute value of OrganizationName.	
88	13		OrganizationContributor*	Contributing organization	Name of the organization acting in the role of a contributor to the document.		A.4.15.2 A.4.16.3	/Document/Party[@Role="Contributor"]/ Organization[@OrganizationName] Attribute value of OrganizationName.	
89	13		OrganizationExploitationRightsHolder*	Exploitation rights holder	Name of organization(s) having defined exploitation rights according to a contract between organizations. NOTE This may change over time without changing the document version.		A.4.15.2 A.4.16.3	/Document/Party[@Role="ExploitationRightsHolder"]/ Organization[@OrganizationName] Attribute value of OrganizationName	
90	13		OrganizationDesignPatentsRightsHolder*	Design patent rights holder	Name of the organization holding design patent rights associated with the document.		A.4.15.2 A.4.16.3	/Document/Party[@Role="DesignPatentsRightsHolder"]/ Organization[@OrganizationName] Attribute value of OrganizationName	ISO 16016
91	13		OrganizationPatentRightsHolder*	Patent rights holder	Name of the organization holding patent rights associated with the document.		A.4.15.2 A.4.16.3	/Document/Party[@Role="PatentsRightsHolder"]/ Organization[@OrganizationName] Attribute value of OrganizationName	ISO 16016
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