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WIPO STANDARD ST.86

Document prepared by the Secretariat

1. The Standards and Documentation Working Group (SDWG) of the Standing Committee on Information Technologies (SCIT), at its eighth session, in March 2007, agreed to create a new Task to prepare a new WIPO Standard for the processing of industrial design information using XML (eXtensible Markup Language) and to establish the ST.86 Task Force to deal with this Task. As agreed by the SDWG, an informal meeting was held during the eighth session, to ensure harmony among the tasks dealing with XML issues (see paragraphs 65 to 71 of document SCIT/SDWG/8/14).
2. As a follow-up to the above decisions, the International Bureau (IB) issued Circular C.SCIT 2638, dated April 30, 2007, inviting those offices wishing to participate actively in the discussions of the ST.86 Task Force to nominate a representative thereto. The following 15 Offices appointed their representatives: AU, CA, DE, DK, EM, EP, GB, JP, KR, LT, RU, SE, US, VN and WO/IB.
3. The IB also issued Circular C.SCIT 2640, dated May 21, 2007, inviting industrial property offices to provide copies of materials related to the processing of industrial design information, as well as business practices, using XML technologies (e.g., XML Dictionary including description). This material would permit the ST.86 Task Force to obtain

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information on existing practices within industrial property offices with regard to the above-mentioned Task. The following eight Offices provided information: AT, AU, CA, DE, JP, RU, UA and US. Please consult the following web page for further details:

<http://www.wipo.int/scit/en/mailbox/index.html>.

4. To prepare and review the proposals of the said new WIPO Standard, two informal meetings of the ST.86 Task Force took place in Alicante in June 2007 and in Geneva in October 2007. The results of the meetings and copies of the presentations given to the meetings are available at the ST.86 Task Force web page:

<http://www.wipo.int/scit/en/taskforce/st86/background.htm>.

5. The ST.86 Task Force has prepared a draft proposal for a new XML standard for industrial designs, i.e., WIPO Standard ST.86. This proposal, including the List of Acronyms and Abbreviations (Appendix D), is reproduced in the Annex to this document, for consideration and approval by the SDWG. The XML Dictionary (Appendix A), the XML Schema (Appendix B), the Associated Class Diagram (Appendix C) and the ST.36 Compatibility Form (Appendix E) of the proposed WIPO Standard ST.86 will be made available separately and only in electronic form, also for consideration and approval by the SDWG, on the WIPO's website at http://www.wipo.int/standards/en/xml_material/st86/.

6. With regard to the continuous revising and updating of the new WIPO Standard ST.86, it would be convenient to set up a "fast track" procedure for the consideration and approval of the revisions of the main part and appendices of the Standard. To update and revise WIPO Standard ST.86, the IB proposes, for consideration and approval by the SDWG, a similar procedure as that agreed on for WIPO Standards ST.36 and ST.66, namely:

(a) that any proposal to revise WIPO Standard ST.86 presented to the IB be forwarded directly to the ST.86 Task Force for consideration and approval;

(b) that the ST.86 Task Force be temporarily authorized to adopt revisions of WIPO Standard ST.86;

(c) that a proposal to revise WIPO Standard ST.86 be forwarded to the SDWG for consideration whenever a proposed revision becomes controversial, i.e., that it is not possible to reach consensus among the ST.86 Task Force members; and

(d) that the ST.86 Task Force Leader inform the SDWG of any revision of WIPO Standard ST.86 adopted by the Task Force at the first occasion.

7. In light of the detailed technical nature of the proposed WIPO Standard ST.86, it is requested, exceptionally, that technical comments and questions concerning this document and the XML Dictionary, XML Schema, Associated Class Diagram and the ST.36 Compatibility Form of WIPO Standard ST.86 be submitted in writing to the International Bureau in advance of the SDWG meeting to be held from February 18 to 22, 2008, in order to develop detailed technical answers. Comments and questions should be sent to scit.mail@wipo.int, by February 2008.

8. *The SDWG is invited:*

(a) to formally adopt “WIPO Standard ST.86 - Recommendation for the Processing of Industrial Design Information Using XML (eXtensible Markup Language)” as the name of the proposed standard;

(b) to consider and approve WIPO Standard ST.86, reproduced in the Annex to this document, along with the XML Dictionary (Appendix A), XML Schema (Appendix B), Associated Class Diagram (Appendix C), the List of Acronyms and Abbreviations (Appendix D) and the ST.36 Compatibility Form (Appendix E) of the Standard referred to in paragraph 5, above; and

(c) to consider and approve the “fast track” procedure for the continuous revising and updating of WIPO Standard ST.86 referred to in paragraph 6, above.

[Annex follows]

ANNEX

STANDARD ST.86

RECOMMENDATION FOR THE PROCESSING OF INDUSTRIAL DESIGN INFORMATION USING XML
(EXTENSIBLE MARKUP LANGUAGE)

Proposal for Version 1.0 by the ST.86 Task Force

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APPENDICES

The Appendices are available at: http://www.wipo.int/standards/en/xml_material/st86/

- Appendix A – ST.86 XML Dictionary
- Appendix B – ST.86 XML Schema
- Appendix C – ST.86 Associated Class Diagram
- Appendix D – List of Acronyms and Abbreviations
- Appendix E – ST.36 Compatibility Form

WIPO STANDARD ST.86

Version 1.0 (Final Draft)

RECOMMENDATION FOR THE PROCESSING OF INDUSTRIAL DESIGN INFORMATION USING XML (EXTENSIBLE MARKUP LANGUAGE)

Proposal for Version 1.0 by the ST.86 Task Force

INTRODUCTION

1. This Standard recommends the XML (eXtensible Markup Language) resources used for filing, processing, publication, and exchange of all types of industrial design information. It is based in a large part on the WIPO Standards ST.66 and ST.36.
2. The term "XML resources" is intended to refer to any of the components used to create and operate an XML implementation. For further information about the W3C (World Wide Web Consortium), see <http://www.w3c.org/>.
3. The term "XML Schema" is a language for describing the structure and constraining the contents of XML documents.
4. There are many schema languages based on XML. This Standard recommends only the W3C XML Schema language. The term "XML Schema Definition (XSD)" is an instance of an XML schema written in the W3C's XML Schema language. An XSD defines a class of XML document instances in terms of constraints upon what elements and attributes may appear, their relationship to each other, what types of data may be in them, etc.
5. XML cannot be used *per se* as the basis for industrial design document processing. Therefore, this Standard defines elements and their generic identifiers, or "tags", and attributes for marking up industrial design documents. That is, this Standard provides for some level of the semantics (meaning), the use, and the names of the types, elements and attributes that make up the various document types it discusses.
6. The purpose of the Standard is to provide logical, system-independent structures for industrial design document processing, whether for text or image data. This Standard refers to ISO Standards for country code (ISO3166), language code (ISO639), currency code (ISO4217) and ST.3 code as external schema.

DEFINITIONS AND TERMINOLOGY

7. The keywords MUST, MUST NOT, SHALL, SHOULD, SHOULD NOT, MAY, and OPTIONAL, when they appear in this document, are to be interpreted as described in Internet Engineering Task Force (IETF) Request For Comments (RFC) 2119. Non-capitalized forms of these words are used in the regular English sense.
 - (a) Example – A representation of a definition or a rule. Examples are informative.
 - (b) [Note] – Explanatory information. Notes are informative.
8. For the purpose of this recommendation, the expression:
 - (a) "industrial designs" includes two-dimensional and three-dimensional features of shape and surface of objects, and thus covers both concepts of "designs" and "models" where a distinction is made between the former and the latter; the term "industrial designs" does not include design patents, for which WIPO Standard [ST.9](#) is applicable;
 - (b) "design documents" means published documents relating to industrial design registrations or deposits, and published applications therefore;
 - (c) "design certificate" means the official document which is delivered to a design owner certifying that his or her design has been registered or renewed, i.e., has been entered in the design register of the country or organization in question, or has been renewed (this definition also covers "certificates" or "registry extracts" delivered by the industrial property office, e.g., for the purposes of proceedings in court);
 - (d) "official gazette" means an official publication containing announcements with respect to industrial designs made in accordance with requirements under national or regional industrial property legislation or international industrial property conventions or treaties;
 - (e) "entry in an official gazette" means a comprehensive announcement, including bibliographic data, made in an official gazette regarding an industrial design registration or a deposit or an application therefor;
 - (f) "INID" is the acronym for "Internationally agreed Numbers for the Identification of (bibliographic) Data."

9. Markup is defined as text that is added to the content of a document and that describes the structure and other attributes of the document in a non-system-specific manner, independently of any processing that MAY be performed on it.
10. For other definitions see the XML specification at <http://www.w3c.org/TR/2004/REC-xml11-20040204/>.

SCOPE OF THE STANDARD

11. This Standard is aimed at providing guidance to national, regional and international authorities who, on the basis of national industrial property laws or international industrial property conventions, publish announcements, either on industrial design applications or on registrations of industrial designs.
12. This Standard is intended to provide XML resources for exchanging and processing industrial design documents and industrial design transaction records. See Appendix 2 for model schemas related to various types of industrial design documents and transaction records.
13. This guideline covers only W3C XML Schema. Although an XMLDTD can be generated automatically from an XML Schema that does conform to this Standard, by definition, no DTD can conform to this Standard. See <http://www.w3.org/XML/Schema#dev> for the XML Schema specification.

REFERENCES

14. The following standards and documents are of relevance to this Standard:
- (a) WIPO Standard ST.3: *Recommended Standard on two-Letter Codes for the Representation of States, Other Entities and Intergovernmental Organizations*;
 - (b) WIPO Standard ST.36: *Recommendation for the Processing of Patent Information Using XML*;
 - (c) WIPO Standard ST.66: *Recommendation for the Processing of Trademark Information Using XML*;
 - (d) WIPO Standard ST.80: *Recommendation Concerning Bibliographic Data Relating to Industrial Designs*;
 - (e) WIPO Standard ST.81: *Recommendation Concerning the Content and Layout of Industrial Designs*;
 - (f) International Classification for Industrial Designs under the Locarno Agreement;
 - (g) ISO/IEC 11179-5 *Information technology – Metadata registries (MDR) – Part 5: Naming and identification principles*;
 - (h) ISO 3166-1 – *Codes for the representation of names of countries and their subdivisions – Country Codes*;
 - (i) ISO 639-1 – *Codes for the representation of names of languages – Part 1: Alpha2-code*;
 - (j) ISO 4217 – *Codes for the representation of currencies and funds*;
 - (k) ISO 8601 – *Data elements and interchange formats – Information interchange – Representation of dates and times*;
 - (l) ISO/IEC 10646 – *Information technology – Universal Multiple-Octet Coded Character Set (UCS)*;
 - (m) ebXML (Electronic Business using XML) sponsored by UN/CEFACT (United Nations Centre for Trade Facilitation and Electronic Business) and OASIS (Organization for the Advancement of Structured Information Standards) is a modular suite of specifications for e-Business over the Internet.⁽¹⁾
 - (n) UN/CEFACT- XML Naming and Design Rules, Version 2.0;
 - (o) OASIS UBL Naming and Design Rules;
 - (p) Internet Engineering Task Force (IETF) Request For Comments (RFC) 2119.

⁽¹⁾ Editorial notes: ebXML was published in 1999 as an initiative of the [United Nations Centre for Trade facilitation and Electronic Business](#) (UN/CEFACT) and the [Organization for the Advancement of Structured Information Standards](#) (OASIS).

REQUIREMENTS OF THE STANDARD

15. ST.86 XML Dictionary in Appendix A is the foundation of this Standard.
16. The Dictionary **MUST** be used as defined in this Standard, that is, the types, elements, attributes and enumerations **MUST** be as indicated in the list of the Dictionary. However, some enumerations are defined as open and may be restricted or extended in the specific offices' implementation.
17. Implementation that conforms to this Standard **MUST** be carried out according to the guidelines in this Standard, or **MUST** be an extension of a conforming XSD according to the guidelines in this Standard.
18. XML instances that conform to this Standard **MUST** be well-formed XML and validated by the XSD in Appendix B.
19. It is understood that this Standard cannot possibly include all elements required by all industrial design offices; in such implementation schema, office-specific elements are allowed as described below in the "Naming Office-Specific Types and Elements" section.
20. The W3C XML Schema definition language has become the generally accepted schema language that is experiencing the most widespread adoption. Although other schema languages exist that offer their own advantages and disadvantages, all XML Schema design rules **MUST** be based on the W3C XML Schema Recommendations: XML Schema Part 1: Structures and XML Schema, Part 2: Datatypes. All schemas and messages **MUST** be based on the W3C suite of technical specifications holding recommendation status.
21. Redefinition of XSD built-in data types **SHOULD** be avoided.
22. WIPO Standard ST.3 **MUST** be used for priority country, contracting party, receiving Office and designated Office.
23. ISO 3166 **MUST** be used for address country codes, exhibition country codes and nationalities.
24. ISO/IEC 10646 – UCS – Unicode UTF-8 **MUST** be used for character set.
25. ISO 639-1 (2-Letter Language Codes) **MUST** be used for Language Codes.
26. ISO 8601 - International Standard Date and Time Notation **MUST** be used for Date and Time Notation. W3C Schema data types include date and time and **SHOULD** be used in preference to ISO 8601, where there is any conflict.
27. ISO 4217-Alpha (3-Letter Currency Codes) **MUST** be used for Currency Codes.

Characters

28. This Standard recommends Unicode exclusively. It may be useful to add character entities for characters not yet in Unicode, Use of these entities requires the creation of glyphs for presentation, which do not yet exist. See <http://www.w3.org/XML/Core/2002/10/charents-20021023> for further information about character entities.
29. Document instances **MUST** include an XML declaration as the first line in the file.

`<?xml version='1.0' encoding='utf-8' ?>`

Note that only UTF-8 is recommended in this Standard. However, in the case of ideographic scripts, Unicode in UTF-8 **MAY** produce exceptionally large files since the encoding **MAY** use up to four bytes per character. In such cases, national Offices **MAY** select an encoding that brings files to manageable sizes. Offices that elect to do so, **SHOULD** be prepared to consult with their exchange partners and to give adequate public notice.

30. The characters that are permitted to appear in an XML document are specified in the *XML 1.0 W3C Recommendation*, and are endorsed by this Standard with the following exception. The characters used in type, element, or attribute names described in this Standard are restricted to the following set: {a-z, A-Z, 0-9, period (.), dash (-) and underscore (_)}.

General XML Constructs

Naming and Modeling Constraints

Naming Constraints

31. Each dictionary entry name **MUST** define one and only one fully qualified path for an element or attribute.

Modeling Constraints

32. Libraries and Schemas **MUST** only use approved datatypes.

33. Mixed content MUST NOT be used in data centric schema except where contained in an xsd:documentation element.

Reusability Scheme

34. All type declaration MUST be global.

Namespace Scheme

Declaring Namespaces

35. Every schema module, except internal schema modules, MUST have a namespace declared using the xsd:targetNamespace attribute.

36. All XML schemas MUST declare the W3C schema namespace. Schemas MUST declare a target namespace.

37. Namespace qualification MUST be used for W3C schema construct.

38. Every defined or used schema set version MUST have its own unique namespace.

39. Published namespaces MUST never be changed.

40. There SHALL be no default namespaces. That is, for example, both the XMLSchema and targetNamespace MUST be explicitly qualified. This approach, even though quite cluttered, is more consistent for all types of schema with no, one, or multiple targetNamespaces. For example:

```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            targetNamespace="http://www.wipo.int/standards/XMLSchema"
            xmlns:lib="http://www.wipo.int/standards/XMLSchema"
            elementFormDefault="qualified">
<xsd:include schemalocation="xxx.xsd"/>
</xsd:schema>
```

41. To hide or expose Namespaces in instance documents, the binary switch attribute SHOULD be used: elementFormDefault of the element <xsd:schema> (qualified or unqualified).

42. External schema references SHOULD use the "Include" construct. The including and included schemas MUST have the same target namespace.

43. For simplicity, a single namespace configuration SHOULD be preferred. Multiple namespaces MAY be used for extension purposes (nationalization).

Naming Conventions

XML Tag Naming Rules

44. The XML tag naming conventions are based on the concepts as defined in ISO 11179 Part 5. Element, attribute and type names SHOULD consist of the Object Class, the name of the Property Term and the name of a Representation Term.

(a) An Object Class identifies the primary concept of the element. It refers to an activity or an object within a business context and MAY consist of one, two or three words.

(b) The Property Term identifies the characteristics of the object class. The name of a Property Term SHALL occur naturally in the tag definition and MAY consist of one, two or three words. A name of a Property Term SHALL be unique within the context of an Object Class but MAY be reused across different Object Classes.

(c) If the Representation Term uses the same word as the last one used by the Property Term, the Representation Term SHALL be omitted.

(d) Object class and Representation Terms SHOULD be omitted when the Property Term alone is commonly used and sufficient to express the concept without confusion in its context.

(e) For example (Object Class + Property Term + Representation Term):

- ApplicantNationalityCode: Applicant(Object Class) + Nationality(Property Term) + Code(Representation Term)
- ViewFilename: View(Object Class) + Filename(Property Term) + Text(Representation Term, omitted)
- FilingDate: Mark(Object Class, omitted) + FilingDate(Property Term)+ Date(Representation Term, omitted)

45. Element, attribute and type names **MUST** be unique. The names **SHOULD** be concise and **SHOULD NOT** contain consecutive redundant words, and **MUST** be as much as possible self-described and highly structured.
46. Element, attribute and type names and all their components **MUST** be in singular form unless the concept itself is plural.
47. Element, attribute and type names **MUST** only contain nouns, adjectives and eventually verbs. Words like “and”, “of”, “the” **MUST** be removed, except when this makes the name misleading. For example, `IndicationProduct`, `OpenToLicencingIndicator`.
48. Element, attribute and type names **MUST NOT** be translated, changed or replaced for any purpose.
49. Element, attribute and type names **MUST** be composed of words in the English language, using the primary English spellings provided in the Oxford English Dictionary, including office-specific tags (except see paragraph 57 below for acronyms).
50. Element names **MUST** be in upper camel case (UCC). UCC style capitalizes the first character of each word which compounds the name. For example, `AddressCountryCode`.
51. Type names **MUST** be in UCC + Suffix Type. For example, `LanguageCodeType`.
52. Attribute names **MUST** be in lower camel case (LCC). LCC style capitalizes the first character of each word except the first word. For example, `currencyCode="EUR"`.
53. Regarding the enumeration of values or code list text, it **SHOULD** be short but semantically sufficient and in English when there is no standard code list. The values and codes **SHOULD** be drawn from the common industrial property business language.
54. A limit of 35 characters for a name is recommended. When the same word is repeated in an element name, the second or following occurrences **SHOULD** be removed.
55. Element, attribute and type names **MUST NOT** include periods (.), spaces or other separators, or characters not allowed by W3C XML 1.0 for XML names except as specified in this Standard. For example, Office or domain prefixes (XX_UCC with XX in ST.3 code).
56. The characters used in enumeration value names described in this Standard are restricted to the following set: {a-z, A-Z, 0-9, period (.), comma (,), spaces, dash (-) and underscore (_)}.

Acronyms and Abbreviations

57. XML element, attribute and type names **MUST NOT** use acronyms, abbreviations, or other word truncations, except as specified in this Standard or listed in Appendix D.
58. The acronyms and abbreviations listed in Appendix D **MUST** always be used instead of the complete extended name.
59. Acronyms and abbreviations at the beginning of an attribute declaration **MUST** appear in all lower case. All other acronym and abbreviation usage in an attribute declaration **MUST** appear in upper case.
60. Acronyms **MUST** appear in all upper case for all element declarations and type definitions.

XML Schema File naming Rules

61. These conventions will ensure that objects will be stored in a manner that will ensure consistency, uniformity, and comprehensiveness, and will be suitable for all aspects of storage and reuse.
62. Schema and style sheet filenames are recommended to follow a six-part naming rule. The six-part naming rule is illustrated below:

Part	Description	Syntax
[Office]	Use in case of office-specific artifact or union of several offices' codes.	AA (ST.3 code). It is to be omitted for an office generic version. For organizations not identified in WIPO Standard ST.3 or companies, they SHOULD not use two letter-codes but rather be composed of three or four UCCs.
-	Delimiter.	A single dash.
[Domain]	Indication of the domain.	Aaa (variable length name, maximum length of 8 characters). Example:

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Part	Description	Syntax
		RCD = Registered Community Design
-	Delimiter.	A single dash.
Message or Service Name		Message or Service Name in UCC Example: RCDDownload ClassTerm
-	Delimiter.	A single dash.
Version	There are two options: 1. Version and sub-version (separated from the previous part by a dash). 2. Version by date (e.g., ccyy-mm-dd).	
.	Delimiter.	A single period.
Extension	File extension (separated from the previous part by a dot).	Aaa (two to four characters). Example: xsd, xml, xsl

Example: EM-RCD-Keyin-V1-0.xsd

[Office]	[Domain]	Message Service	Version	Extension
EM-	RCD	eFiling	V1-1	.xsd
		RCDDownload	2007-02-25	.xml

Note: Field in square brackets [] is OPTIONAL.

63. File names SHOULD follow the above-mentioned tag naming rules. However a mapping can be defined locally if the rules cannot be applied due to technical constraints. Such local rules MUST be well defined and published for all potential users.

64. Schema file names SHOULD have their versions changed when an included modular schema is updated. With regard to the latest version of the XML schema, offices MAY provide two types of the latest version on their web site: a versioned schema which has an appropriated version number (e.g., WIPOST3Code-V2005-05-21.xsd, st36for66-V1-0.xsd) and a non-versioned schema without version number (e.g., WIPOST3Code.xsd, st36for66.xsd), which is a copy of (or refers to) the latest version of the XML schema. Other offices can refer to the latest version by indicating either the versioned schema with the latest version number or the non-version schema which is a copy of the latest version to avoid changing office's implemented codes whenever the schema is updated.

Miscellaneous XSD Rules

65. Restriction on field length MUST not be defined for the ST.86 XML Schema, but MAY be done for implementation schemas.

66. The <any> element SHOULD be used to offer extension and to keep the ST.86 XML Schema (Appendix B) opened to additional elements. It MUST not be used in implementation schema.

67. Elements SHOULD be declared with occurrence indicators. The occurrence indicators should not be declared explicitly when the required value is the default value. For example:

```
<xs:element name="RegistrationNumber" type="xs:string" minOccurs="0"/>

<xs:element name="DesignRepresentationSheet" type="RepresentationSheetType"
maxOccurs="unbounded"/>
```

68. The content or value within tags and attributes may be in any language, except enumerations.

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69. A revision history of schema SHOULD not be inserted in the schema itself. The reference to the revision history, and the latest version number and date of the schema SHOULD be only given in the XML schema. The revision history SHOULD document changes with a date and description of each change, in reverse chronological order and published via the Office's web site. For example:

```
<xs:annotation>
  <xs:documentation>WIPO Standard ST.86 Model Schema Version 1.0, published in 2008-03-
  02. The revision history is available on WIPO website at
  http://www.wipo.int/standards/XMLSchema/designs/revision-history-st86model-schema.doc
</xs:documentation>
</xs:annotation>
```

70. Contact points SHOULD be included in the prologue. For example:

```
<!-- Author   : SDWG ST.86 Task Force   -->
<!-- Contact  : xml.standards@wipo.int  -->
```

Naming Office-Specific Types and Elements

71. A namespace SHOULD be established for office-specific elements, where the office code (ST.3) becomes the prefix for identifying elements that are in that namespace. For example:

```
xmlns:kr=" http://www.kipo.go.kr "

<kr:element name="Bibliographic">
  < kr:complexType mixed="true">
    <kr:choice minOccurs="0" maxOccurs="unbounded">
      <kr:element ref="DocumentCode" />
      <kr:element ref="DocumentName" minOccurs="0" />
      <kr:element ref="ReceiveOffice" minOccurs="0" />
      <kr:element ref="ApplicationDate" minOccurs="0" />
    </kr:choice>
  </kr:complexType>
</kr:element>
```

72. Types that are not defined in the Standard can be defined as office-specific. Type names SHOULD have a prefix specific to the organization followed by a single dash. In the case of industrial design offices, types SHOULD be prefixed by the two-letter office code as specified in WIPO Standard ST.3.

73. For organizations/offices not identified in WIPO Standard ST.3 or companies, they SHOULD not use two-letter codes but rather codes composed of three or four uppercase letters.

74. As an alternative, a unique namespace SHOULD be established for office-specific elements, where the country code or company symbol becomes the prefix for identifying elements that are in that namespace.

External Entities

75. An external entity is any object that accompanies an XML document instance that is referenced from within the document instance. External entities are an integral part of an industrial design document. Without them, the XML instance cannot be parsed, rendered, or understood successfully.

76. In the industrial design domain, an external entity is most frequently a view, usually of the representation of industrial designs. External entities that are views of the industrial designs SHALL conform to one or the other of the following profiles published by WIPO on its website. ⁽²⁾

JPEG
PNG
TIFF
GIF

⁽²⁾ At present, the SDWG Trademark Standards Task Force is preparing, for adoption as a WIPO Standard, a recommendation for the electronic management of the figurative elements of trademarks. This recommendation may also be applicable to industrial designs.

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77. Views can be embedded in a XML document instance as embedded binary images encoded in base64Binary that is the W3C XML Schema standard data type as well as references to external image files, i.e., external entities. However images SHOULD be referenced as external entities.

[Proposals of Appendices A, B, C and E are available at: http://www.wipo.int/standards/en/xml_material/st86/]

[Appendix D follows]

APPENDIX D

LIST OF ACRONYMS AND ABBREVIATIONS

Proposal for Version 1.0 by the ST.86 Task Force

The following constitutes a list of acronyms and abbreviations that MUST be used within XML tag names when these words are part of the ST.86 Dictionary:

BW	:	Black and White
CV2	:	Card Verification Value
IPR	:	Intellectual Property Right
ISO	:	International Standard Organization
PKCS7	:	Public Key Cryptography Standard 7
ST3	:	WIPO Standard ST.3
URI	:	Uniform Resource Identifier
URL	:	Uniform Resource Locator
XSD	:	XML Schema Definition

[End of Appendix D]

[End of Annex and of document]