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STANDING COMMITTEE ON INFORMATION TECHNOLOGIES STANDARDS AND DOCUMENTATION WORKING GROUP

**Eighth Session
Geneva, March 19 to 22, 2007**

WIPO STANDARD ST.66

Document prepared by the Secretariat

1. The Standards and Documentation Working Group (SDWG) of the Standing Committee on Information Technologies (SCIT), at its fourth session, in January 2004, created Task No.34 which was requested to prepare an XML (eXtensible Markup Language) standard for the electronic external process and exchange of trademark data". The SDWG also agreed then that the Trademark Standards Task Force should work in close cooperation with the Working Group (XML Standard for Trademarks) of the Office for Harmonization in the Internal Market (OHIM), the TM-XML OHIM's WG. (See document SCIT/SDWG/4/14, paragraph 43.)
2. At the fifth session of the SDWG, in November 2004, the Leader of the Trademark Standards Task Force reported that the Task Force and the TM-XML OHIM's WG had agreed, at their joint meeting on January 29, 2004, that once the OHIM XML Working Group had completed its work concerning an XML standard for trademarks, the Trademark Standards Task Force would take that work as input for its own work, i.e., that of preparing a draft standard to present, for consideration by the SDWG, as a proposal for the adoption of a new WIPO standard. (See document SCIT/SDWG/5/13, paragraph 33.)

3. At the seventh session, in May/June 2006, the SDWG noted that the TM-XML OHIM's WG had almost completed the work on the preparation of the XML standard for trademarks which would be forwarded in due course to the Trademark Standards Task Force as input to be included in a future WIPO standard. The SDWG welcomed the support offered by the International Bureau (IB) to share the leadership of the Trademark Standards Task Force with the Korean Intellectual Property Office and, in close collaboration with the OHIM, to lead discussions related to the XML standard for trademarks. (See document SCIT/SDWG/7/9, paragraphs 45 and 46.)

4. On the basis of the agreements referred to above for the preparation of the XML standard for trademarks, in June 2006, the IB set up the WIPO Standard ST.66 Forum within the framework of the Trademark Standards Task Force. The members of the Forum are the same as those of the Trademark Standards Task Force.

5. Taking into account of the input mentioned in above paragraph 3, the WIPO Standard ST.66 Forum has prepared a draft proposal for a new XML standard for trademarks, i.e., WIPO Standard ST.66. 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.66 will be made available separately and only in electronic form, also for consideration and approval by the SDWG, in the same area of WIPO's website, along with the working documents of the eighth session of the SDWG (http://www.wipo.int/meetings/en/details.jsp?meeting_id=12446).

6. With regard to the continuous revising and updating of the new WIPO Standard ST.66, 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.66, the ST.66 Forum proposes, for consideration and approval by the SDWG, the following:

(a) that the current ST.66 Forum within the Trademark Standards Task Force would now become the ST.66 Task Force with the IB as Task Force Leader;

(b) that any proposal to revise WIPO Standard ST.66 presented to the IB be forwarded directly to the ST.66 Task Force for consideration and approval;

(c) that the ST.66 Task Force be initially authorized to adopt revisions of WIPO Standard ST.66;

(d) that a proposal to revise WIPO Standard ST.66 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.66 Task Force members; and

(e) that the ST.66 Task Force Leader inform the SDWG of any revision of ST.66 adopted by the Task Force at the first occasion.

7. In light of the detailed technical nature of the proposed WIPO Standard ST.66, 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.66 be submitted in writing to the International Bureau in advance of the SDWG meeting to be held from March 19 to 22, 2007, in order to develop detailed technical answers.

8. *The SDWG is invited:*

(a) to formally adopt “WIPO Standard ST.66 - Recommendation for the Processing of Trademark Information Using XML (eXensible Markup Language)” as the name of the proposed standard;

(b) to consider and approve WIPO Standard ST.66, 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.66 referred to in paragraph 6, above.

[Annex follows]

ANNEX

WIPO STANDARD ST.66

Version 1.0

DRAFT RECOMMENDATION FOR THE PROCESSING OF TRADEMARK INFORMATION USING XML
(EXTENSIBLE MARKUP LANGUAGE)

*Proposal prepared by the WIPO Standard ST.66 Forum of the Trademark Standards Task Force
February 2007*

TABLE OF CONTENTS

WIPO STANDARD ST.66	2
INTRODUCTION.....	2
DEFINITIONS AND TERMINOLOGY	2
SCOPE OF THE STANDARD	3
REFERENCES.....	3
REQUIREMENTS OF THE STANDARD.....	3
Characters	4
General XML Constructs	4
Naming and Modeling Constraints	4
Reusability Scheme	5
Namespace Scheme.....	5
Naming Conventions	5
XML Tag Naming Rules.....	5
Acronyms and Abbreviations	6
XML Schema File naming Rules	6
Miscellaneous XSD Rules	7
Naming Office-Specific Types and Elements.....	7
External Entities.....	8
APPENDIX A - ST.66 XML Dictionary	9
APPENDIX B - ST.66 XML Schema	10
APPENDIX C - ST.66 Associated Class Diagram	11
APPENDIX D - List of Acronyms and Abbreviations.....	12
APPENDIX E - ST.36 Compatibility Form	13

WIPO STANDARD ST.66

DRAFT RECOMMENDATION FOR THE PROCESSING OF TRADEMARK INFORMATION USING XML (EXTENSIBLE MARKUP LANGUAGE)

*Proposal prepared by the WIPO Standard ST.66 Forum of the Trademark Standards Task Force
February 2007*

INTRODUCTION

1. This Standard recommends the XML (eXtensible Markup Language) resources used for filing, processing, publication, and exchange of all types of trademark information. It is based in large part on TM-XML, Trade Mark Model at <http://www.tm-xml.org/>, WIPO Madrid Electronic CommunicAtions (hereafter referred to as MECA) DTD and WIPO Standard 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 trademark document processing. Therefore, this Standard defines elements and their generic identifiers, or "tags", and attributes for marking up trademark 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 trademark 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 WIPO 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) "mark" means a trademark, a service mark or another type of distinguishing sign according to the definition of the mark in the legislation concerned, including but not limited to collective marks, certification marks or guarantee marks;
 - (b) "certificate" means the official document which is delivered to a mark owner certifying that his/her mark has been registered by the Office of the country or organization in question, or that such registration has been renewed or amended (this definition also covers "certificates" or "registry extracts" delivered by the Office, e.g., for the purposes of proceedings in court);
 - (c) "gazette" means an official publication containing announcements relating to marks and made in accordance with requirements under national industrial property laws or international industrial property conventions or treaties;
 - (d) "INID" is an 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 trademark applications or on registrations of trademarks.

12. This Standard is intended to provide XML resources for exchanging and processing trademark documents and trademark transaction records. See Appendix 2 for model schemas related to various types of trademark 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 Documents Using XML*;
- (c) WIPO Standard ST.60: *Recommendation Concerning Bibliographic Data Relating to Marks*;
- (d) WIPO Standard ST.62: *Recommendation Concerning Standard Abbreviation for "Vienna Classification"*;
- (e) WIPO Standard ST.63: *Recommendation Concerning the Content and Layout of Trademark Gazettes*;
- (f) WIPO Standard ST.64: *Recommended Search Files for Trademark Search*;
- (g) International Classification of Goods and Services for the Purposes of the Registration of Marks (Nice Classification);
- (h) International Classification of the Figurative Elements of Marks (Vienna Classification);
- (i) TM-XML (<http://www.tm-xml.org/>) version 1.0: *Specification, Dictionary and Design Rules*;
- (j) ISO/IEC 11179-5 *Information technology – Metadata registries (MDR) – Part 5: Naming and identification principles*;
- (k) ISO 3166-1 – *Codes for the representation of names of countries and their subdivisions – Country Codes*;
- (l) ISO 639-1 – *Codes for the representation of names of languages – Part 1: Alpha2-code*;
- (n) ISO 4217 – *Codes for the representation of currencies and funds*;
- (o) ISO 8601 – *Data elements and interchange formats – Information interchange – Representation of dates and times*;
- (p) ISO/IEC 10646 – *Information technology – Universal Multiple-Octet Coded Character Set (UCS)*;
- (q) 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⁾
- (r) UN/CEFACT- XML Naming and Design Rules, Version 2.0;
- (s) OASIS UBL Naming and Design Rules;
- (t) Internet Engineering Task Force (IETF) Request For Comments (RFC) 2119.

REQUIREMENTS OF THE STANDARD

15. ST.66 XML Dictionary in Appendix A is the foundation of this Standard.

⁽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).

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 built 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 trademark 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 and seniority country.

23. ISO 3166 MUST be used for address 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, even though XML permits other character encodings. It may be useful to add character entities for characters not yet in Unicode, such as those listed in wipo.ent (located at <http://www.wipo.int/pct-safe/epct/schemaDocs/1.4/schemaDocs.htm>). This entity file provides general entity names that can be used in instances in place of the code points from the encodings that they are mapped to in wipo.ent. 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 the following processing instruction as the first line in the file. Note that only UTF-8 is supported in this Standard.

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

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. An example is as below:

```
<?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, use the binary switch attribute: `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)
- GoodsServicesDescription: GoodsServices(Object Class) + Description(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.

SCIT/SDWG/8/11
Annex, page 6

46. Element, attribute and type names and all their components MUST be in singular form unless the concept itself is plural. For example, `GoodsServices`, `TotalMarkSeries`.
47. Element, attribute and type names MUST only contain nouns, adjectives and eventually verbs. Words like “and”, “of”, “the” MUST be removed. For example, `GoodsServices`.
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 (WIPO Standard ST.3 code). It is to be omitted for an office generic version. For organizations not identified in ST.3 or companies, they SHOULD not use two letter-codes but rather composed of three or four UCCs.
-	Delimiter.	A single dash.

SCIT/SDWG/8/11
Annex, page 7

[Domain]	Indication of the domain.	Aaa (variable length name, maximum length of 8 characters). Example: CTM = Community Trade Mark RCD = Registered Community Design
-	Delimiter.	A single dash.
Message or Service Name		Message or Service Name in UCC Example: CTMDownload 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. ccy-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-CTM-Keyin-V1-0.xsd

[Office]	[Domain]	Message Service	Version	Extension
EM-	CTM-	Keyin-	V1-0	.xsd
		CTMDownload-	V3-2	.xsd
	RCD	eFiling	V1-1	.xsd
		CTMDownload	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.

Miscellaneous XSD Rules

65. Restriction on field length MUST not be defined for the ST.66 XML Schema, but MAY be done for implementation schemas.

66. The <any> element SHOULD be used to offer extension and to keep the ST.66 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.

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

Naming Office-Specific Types and Elements

69. 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.

70. 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 trademark offices, types SHOULD be prefixed by the two-letter office code as specified in WIPO Standard ST.3.

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

72. 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

73. 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 a trademark document. Without them, the XML instance cannot be parsed, rendered, or understood successfully.

74. In the trademark domain, an external entity is most frequently an image, usually of the mark. External entities that are images of the mark SHALL conform to one or the other of the following profiles published by WIPO on its website.

JPEG

PNG

TIFF

GIF

(Include actual URL for each type.)

[Appendix A follows]

APPENDIX A

[ST.66 XML DICTIONARY](#)

The ST.66 XML Dictionary is provided in a separate document.

[Appendix B follows]

APPENDIX B

[ST.66 XML SCHEMA](#)

The ST.66 XML Schema is provided in a separate document.

[Appendix C follows]

APPENDIX C

[ST.66 ASSOCIATED CLASS DIAGRAM](#)

The ST.66 Associated Class Diagram is provided in a separate document.

[Appendix D follows]

APPENDIX D

LIST OF ACRONYMS AND ABBREVIATIONS

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.66 Dictionary:

CV2	:	Card Verification Value
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

[Appendix E follows]

APPENDIX E

[ST.36 COMPATIBILITY FORM](#)

The ST.36 Compatibility Form is provided in a separate document.

[End of Standard]

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