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*Pacific Northwest National Laboratory (PNL) administers the ISO/IEC JTC 1/SC 32 Secretariat on behalf of ANSI

**TITLE: International Standards Organization (ISO) 4217 Currency Codes
and XML Schema: Proposed tML ISO 4217 Standard**

Source: US TAG to JTC 1/SC 32/WG 1

[Prepared by Raymond E. Reeves, Sprint]

Status: Contribution to work on ISO/IEC 18022 (and 18038)

[See also a similar contributions on proposed tML ISO 3166 standard and on proposed tML ISO 10646/Unicode standard, the latter already contributed as JTC1/SC32/WG1 N177]

Action: For consideration in relation to work on 18022 (and 18038). The document represents a proposed standard of a telecommunications Markup Language (tML) schema following the rules and guidelines defined in the tML standard framework. The document was originally prepared to assist the ANSI Accredited Standards Committee T1 – Telecommunications, i.e. ANSI ASC - T1. Contribution will be modified to reflect progress of work on ISO/IEC 18022.

COMMITTEE T1 – TELECOMMUNICATIONS
Working Group T1M1
Kansas City, MO, September 10-11, 2001

T1M1.5/2001-116 R1

DRAFT STANDARD

TITLE: International Standards Organization (ISO) 4217 Currency Code:
UML Model & XML Schema
SOURCE*: Sprint
PROJECT: tML

ABSTRACT

This proposed standard presents a UML Model and telecommunications Markup Language (tML) schema for the current International Standards Organization (ISO) 4217 Codes for the representation of currencies and funds.

This document uses XML Schema's following the XML Schema Specifications (W3C Recommendation, 2 May 2001). This proposed standard follows the rules and guidelines defined in the tML standard Framework.

NOTICE

This contribution has been prepared to assist Accredited Standards Committee T1 – Telecommunications. This document is offered to the Committee as a basis for discussion and is not a binding proposal on Sprint or any other company. The requirements are subject to change in form and numerical value after more study. Sprint specifically reserves the right to add to, amend, or withdraw the statements contained herein.

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1. Introduction

As part of the work requested from the Digital Subscriber Line (DSL) forum to create standard XML Schemas for their service provisioning interfaces, some standardized data elements have been found. Some of these codes fall into the category of elements standardized by the International Standards Organization (ISO). The specific ISO standard referenced is the ISO-4217 standard for the representation of currencies and funds using Alpha 3 codes.

1.1 Purpose

This contribution presents a proposed standard XML Schema for the several ISO-4217 standardized currency code representations and considers the guidelines established by the telecommunication Markup Language (tML) Ad-Hoc Group (AHG).

1.2 Scope and issues

This proposed standard presents the XML Schema corresponding to the requirements set forth in ISO-4217 for Alpha 3 currency codes. The semantics expressed in the herein contained schema have the inherent limitations of the XML Schema description language.

Because the tML standards Framework is still a document in review, it is expected that some aspects of the propose schema might be subject to review. Especially subject to review are the namespace names and the location of some highly reusable tag names.

1.3 Conventions Used in this Document

The reader should be aware of several conventions used in this document. The most important one is that code (either XML Schema `-.xsd-`, XML instance document `-.xml-`) will be shown in `tahoma 8 point font`.

The XML Schema version used is <http://www.w3.org/2001/XMLSchema>, May 2nd, 2001 XML Schema Recommendation.

1.4 References

At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; all users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below.

- [1] Extensible Markup Language (XML) 1.0, Second Edition, Tim Bray et al., eds., W3C, 6 October 2000. See <http://www.w3.org/TR/2000/REC-xml-20001006>.
- [2] Namespaces in XML, Tim Bray et al., eds., W3C, 14 January 1999. See <http://www.w3.org/TR/1999/REC-xml-names-19990114>.
- [3] XML Schema Part 0: Primer. David C. Fallside, et al., eds., W3C Recommendation, 2 May 2001. See <http://www.w3.org/TR/2001/REC-xmlschema-0-200010502>.
- [4] XML Schema Part 1: Structures. Henry Thompson et al., eds., W3C Recommendation, 2 May 2001. See <http://www.w3.org/TR/2001/REC-xmlschema-1-200010502>.
- [5] XML Schema Part 2: Datatypes . Paul Biron et al., eds., W3C Recommendation, 2 May 2001. See <http://www.w3.org/TR/2001/REC-xmlschema-2-200010502>.
- [6] ISO-4217, Codes for the Representation of Names of Countries. International Standards Organization (ISO)
- [7] T1M1/2001-100R2: tML Guidelines for mapping UML notation to XML Schemas and vice versa
- [8] T1M1/2001-002 R6: tML Framework Document

2. Definition of the XML Schema

The following sections provide the proposed standard implementation of XML Schemas and XML tags corresponding to the current ISO-4217 standard country codes. All XML Schemas presented in this document have been validated and could be revalidated, with minimum changes, by any XML Schema validating editor.

2.1. tML-ISO-4217.xsd

2.1.1. Currency code and abbreviations

The current standard describes the following list of currencies and corresponding three character abbreviation¹:

Currency Name	Code	
	Alpha 3	Numeric 3
Afghani	AFA	004
Algerian Dinar	DZD	012
Andorran Peseta	ADP	020
Argentine Peso	ARS	032
Armenian Dram	AMD	051
Aruban Guilder	AWG	533
Australian Dollar	AUD	036
Azerbaijani Manat	AZM	031
Bahamian Dollar	BSD	044
Bahraini Dinar	BHD	048
Baht	THB	764
Balboa	PAB	590
Barbados Dollar	BBD	052
Belarussian Ruble	BYB	112
Belarussian Ruble	BYR	974
Belgian Franc	BEF	056
Belize Dollar	BZD	084
Bermudian Dollar	BMD	060
Bolivar	VEB	862
Boliviano	BOB	068
Brazilian Real	BRL	986
Brunei Dollar	BND	096
Bulgarian Lev	BGN	975
Burundi Franc	BIF	108
Canadian Dollar	CAD	124
Cape Verde Escudo	CVE	132
Cayman Islands Dollar	KYD	136

¹ http://www.bsi-global.com/Technical+Information/04_Publications+Catalogue_Publications/Publications/tig90x.doc is published by the BSI Currency Code Service ISO 4217 Maintenance Agency.

Currency Name	Code	
	Alpha 3	Numeric 3
Cedi	GHC	288
CFA Franc BCEAO	XOF	952
CFA Franc BEAC	XAF	950
CFP Franc	XPF	953
Chilean Peso	CLP	152
Colombian Peso	COP	170
Comoro Franc	KMF	174
Convertible Marks	BAM	977
Cordoba Oro	NIO	558
Costa Rican Colon	CRC	188
Croatian kuna	HRK	191
Cuban Peso	CUP	192
Cyprus Pound	CYP	196
Czech Koruna	CZK	203
Dalasi	GMD	270
Danish Krone	DKK	208
Denar	MKD	807
Deutsche Mark	DEM	276
Djibouti Franc	DJF	262
Dobra	STD	678
Dominican Peso	DOP	214
Dong	VND	704
Drachma	GRD	300
East Caribbean Dollar	XCD	951
Egyptian Pound	EGP	818
El Salvador Colon	SVC	222
Ethiopian Birr	ETB	230
Falkland Islands Pound	FKP	238
Fiji Dollar	FJD	242
Forint	HUF	348
Franc Congolais	CDF	976
French Franc	FRF	250
Gibraltar Pound	GIP	292
Gourde	HTG	332
Guarani	PYG	600
Guinea Franc	GNF	324
Guinea-Bissau Peso	GWP	624
Guyana Dollar	GYD	328
Hong Kong Dollar	HKD	344
Hryvnia	UAH	980
Iceland Krona	ISK	352
Indian Rupee	INR	356
Iranian Rial	IRR	364

Currency Name	Code	
	Alpha 3	Numeric 3
Iraqi Dinar	IQD	368
Irish Pound	IEP	372
Italian Lira	ITL	380
Jamaican Dollar	JMD	388
Jordanian Dinar	JOD	400
Kenyan Shilling	KES	404
Kina	PGK	598
Kip	LAK	418
Kroon	EEK	233
Kuwaiti Dinar	KWD	414
Kwacha	MWK	454
Kwacha	ZMK	894
Kwanza	AOA	973
Kyat	MMK	104
Lari	GEL	981
Latvian Lats	LVL	428
Lebanese Pound	LBP	422
Lek	ALL	008
Lempira	HNL	340
Leone	SLL	694
Leu	ROL	642
Lev	BGL	100
Liberian Dollar	LRD	430
Libyan Dinar	LYD	434
Lilangeni	SZL	748
Lithuanian Litus	LTL	440
Loti	LSL	426
Luxembourg Franc	LUF	442
Malagasy Franc	MGF	450
Malaysian Ringgit	MYR	458
Maltese Lira	MTL	470
Manat	TMM	795
Markka	FIM	246
Mauritius Rupee	MUR	480
Metical	MZM	508
Mexican Peso	MXN	484
Mexican Unidad de Inversion (UDI)	MXV	979
Moldovan Leu	MDL	498
Moroccan Dirham	MAD	504
Mvdol	BOV	984
Naira	NGN	566
Nakfa	ERN	232
Namibia Dollar	NAD	516

Currency Name	Code	
	Alpha 3	Numeric 3
Nepalese Rupee	NPR	524
Netherlands Antillian Guilder	ANG	532
Netherlands Guilder	NLG	528
New Israeli Sheqel	ILS	376
New Taiwan Dollar	TWD	901
New Zealand Dollar	NZD	554
Ngultrum	BTN	064
North Korean Won	KPW	408
Norwegian Krone	NOK	578
Nuevo Sol	PEN	604
Ouguiya	MRO	478
Pa'anga	TOP	776
Pakistan Rupee	PKR	586
Pataca	MOP	446
Peso Uruguayo	UYU	858
Philippine Peso	PHP	608
Portuguese Escudo	PTE	620
Pound Sterling	GBP	826
Pula	BWP	072
Qatari Rial	QAR	634
Quetzal	GTQ	320
Rand	ZAR	710
Rial Omani	OMR	512
Riel	KHR	116
Rufiyaa	MVR	462
Rupiah	IDR	360
Russian Ruble	RUB	643
Russian Ruble	RUR	810
Rwanda Franc	RWF	646
Saint Helena Pound	SHP	654
Saudi Riyal	SAR	682
Schilling	ATS	040
SDR	XDR	960
Seychelles Rupee	SCR	690
Singapore Dollar	SGD	702
Slovak Koruna	SKK	703
Solomon Islands Dollar	SBD	090
Som	KGS	417
Somali Shilling	SOS	706
Spanish Peseta	ESP	724
Sri Lanka Rupee	LKR	144
Sudanese Dinar	SDD	736
Suriname Guilder	SRG	740

Currency Name	Code	
	Alpha 3	Numeric 3
Swedish Krona	SEK	752
Swiss Franc	CHF	756
Syrian Pound	SYP	760
Tajik Ruble	TJR	762
Taka	BDT	050
Tala	WST	882
Tanzanian Shilling	TZS	834
Tenge	KZT	398
Timor Escudo	TPE	626
Tolar	SIT	705
Trinidad and Tobago Dollar	TTD	780
Tugrik	MNT	496
Tunisian Dinar	TND	788
Turkish Lira	TRL	792
UAE Dirham	AED	784
Uganda Shilling	UGX	800
Unidades de fomento	CLF	990
US Dollar	USD	840
Uzbekistan Sum	UZS	860
Vatu	VUV	548
Won	KRW	410
Yemeni Rial	YER	886
Yen	JPY	392
Yuan Renminbi	CNY	156
Yugoslavian Dinar	YUM	891
Zimbabwe Dollar	ZWD	716
Zloty	PLN	985
Afghani	AFA	004
Algerian Dinar	DZD	012
Andorran Peseta	ADP	020
Argentine Peso	ARS	032
Armenian Dram	AMD	051
Aruban Guilder	AWG	533
Australian Dollar	AUD	036
Azerbaijani Manat	AZM	031
Bahamian Dollar	BSD	044
Bahraini Dinar	BHD	048
Baht	THB	764
Balboa	PAB	590
Barbados Dollar	BBD	052
Belarussian Ruble	BYB	112
Belarussian Ruble	BYR	974
Belgian Franc	BEF	056

Currency Name	Code	
	Alpha 3	Numeric 3
Belize Dollar	BZD	084
Bermudian Dollar	BMD	060
Bolivar	VEB	862
Boliviano	BOB	068
Brazilian Real	BRL	986
Brunei Dollar	BND	096
Bulgarian Lev	BGN	975

2.1.2. UML Model

These code sets are defined within the ISO-4217 package and contains two enumeration datatypes, one for each currency code representation. Each enumeration contains a property-list with a series of “value” entries for each country code.

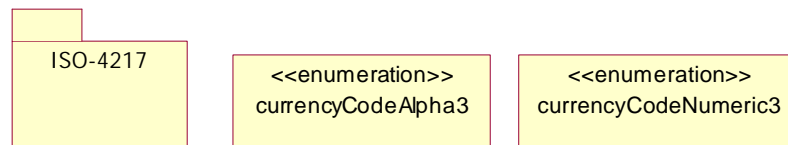


Figure 1. Currency codes model

2.1.3. XML Schema

These code types are controlled by a maintenance authority and lend themselves for an enumeration of the permitted or listed values in the standard. As a result, the corresponding XML Schema follows:

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XML Spy v4.0 NT (http://www.xmlspy.com) by Raymond E. Reeves (Sprint) -->
<schema
  targetNamespace="http://www.itu.int/tML/tML-ISO-4217"
  xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:tML-ISO-4217="http://www.itu.int/tML/tML-ISO-4217"
  elementFormDefault="qualified" attributeFormDefault="unqualified"
  version="1.2 2001/08/25 14:22:09" id="tML-ISO-4217.xsd"
>
  <annotation>
    <documentation>
      Based on ISO-4217
      A list of global currencies and the three-character currency code generally used to represent each currency are at:
      http://www.xe.com/iso4217.htm
      http://www.bsi-global.com/Technical+Information/04_Publications+Catalogue_Publications/_Publications/tig90.xhtml
    
```

Often, but not always, this code is the same as the ISO 4217 standard. In most cases, the ISO 4217 currency code is composed of the country's two-character ISO 3166 country code plus an extra character to denote the currency unit. For example, the code for Canadian Dollars is simply Canada's two-character ISO 3166 code ("CA") plus a one-character currency designator ("D").

Currency codes can be expressed as alpha 3 or numeric 3 codes. This standard schema only provides the Alpha 3 code. For the most current updates, refer to http://www.din.de/gremien/nas/nabd/iso4217ma/codlistp1/en_listp1.html.

```

    </documentation>
  </annotation>

```

```

<!--
2.1.3.1 currencyCodeAlpha3Type
-->
<simpleType name="currencyCodeAlpha3Type">
  <restriction base="string">
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