



TelFormFactory Datatypes

Namespace

It may be noticed that some of the Datatype names are prefixed by the 'colon-ised' 'tag' - 'xsd' and others are prefixed by 'tok'. A tag prefix is an abbreviation for the namespace of the Datatype: in this case xsd indicates the namespace of the W3C Recommendation - <http://www.w3.org/2001/XMLSchema> and tok stands for the namespace of <http://telform.net/ns/2009/telform>. Namespace is an important feature of XML. It may be thought of as referring to a dictionary that the XML Document refers to when decoding the document. It is a powerful feature but can cause problems - it means an XML phrase may be connected with other XML documents the other side of the world but which may not understand other phrases in the same paragraph. In theory any prefix can be used to refer to a namespace providing it has been defined in the document, but this should not be relied upon.

tok:TelFormRootType

The basis on which the TelForm is formed

xsd:string

The string datatype represents character strings in XML

tok:EmailFieldType

EmailFieldType is checked for valid Email address format

tok:PhoneFieldType

Telephone number field

xsd:integer

integer is derived from decimal by fixing the value of fractionDigits to be 0 and disallowing the trailing decimal point

xsd:decimal

decimal represents a subset of the real numbers, which can be represented by decimal numerals

tok:MultipleChoiceType

Allows a number of options to be chosen from a range of values

tok:MultipleChoiceItem

One of several MultipleChoiceType options

tok:ExclusiveChoiceType

Allows a single option to be chosen from a range of values

tok:ExclusiveChoiceItem

One of several ExclusiveChoiceType options

tok:GROUP

A sub-group of fields may be attached to this node

xsd:boolean

boolean has the value space required to support the mathematical concept of binary-valued logic: {true, false}

xsd:float

float is patterned after the IEEE single-precision 32-bit floating point type [IEEE 754-1985]

xsd:double

The double datatype is patterned after the IEEE double-precision 64-bit floating point type [IEEE 754-1985]

xsd:duration

duration represents a duration of time

xsd:dateTime

dateTime values may be viewed as objects with integer-valued year, month, day, hour and minute properties, a decimal-valued second property, and a boolean timezoned property

xsd:time

time represents an instant of time that recurs every day

xsd:date

The value space of date consists of top-open intervals of exactly one day in length

xsd:gYearMonth

gYearMonth represents a specific gregorian month in a specific gregorian year

xsd:gYear

gYear represents a gregorian calendar year

xsd:gMonthDay

gMonthDay is a gregorian date that recurs, specifically a day of the year such as the third of May

xsd:gDay

gDay is a gregorian day that recurs, specifically a day of the month such as the 5th of the month

xsd:gMonth

gMonth is a gregorian month that recurs every year

xsd:hexBinary

hexBinary represents arbitrary hex-encoded binary data

xsd:base64Binary

base64Binary represents Base64-encoded arbitrary binary data

xsd:anyURI

anyURI represents a Uniform Resource Identifier Reference (URI)

xsd:QName

QName represents XML qualified names

xsd:NOTATION

NOTATION represents the NOTATION attribute type from [XML 1.0 (Second Edition)]

xsd:normalizedString

normalizedString represents white space normalized strings

xsd:token

token represents tokenized strings

xsd:language

language represents natural language identifiers as defined by [RFC 3066]

xsd:NMTOKEN

NMTOKEN represents the NMTOKEN attribute type from [XML 1.0 (Second Edition)]

xsd:NMTOKENS

NMTOKENS represents the NMTOKENS attribute type from [XML 1.0 (Second Edition)]

xsd:Name

Name represents XML Names

xsd:NCName

NCName represents XML 'non-colonized' Names

xsd:ID

ID represents the ID attribute type from [XML 1.0 (Second Edition)]

xsd:IDREF

IDREF represents the IDREF attribute type from [XML 1.0 (Second Edition)]

xsd:IDREFS

IDREFS represents the IDREFS attribute type from [XML 1.0 (Second Edition)]

xsd:ENTITY

ENTITY represents the ENTITY attribute type from [XML 1.0 (Second Edition)]

xsd:ENTITIES

ENTITIES represents the ENTITIES attribute type from [XML 1.0 (Second Edition)]

xsd:nonPositiveInteger

nonPositiveInteger is derived from integer by setting the value of maxInclusive to be 0

xsd:negativeInteger

negativeInteger is derived from nonPositiveInteger by setting the value of maxInclusive to be -1

xsd:long

long is derived from integer by setting the value of maxInclusive to be 9223372036854775807 and minInclusive to be -9223372036854775808

xsd:int

int is derived from long by setting the value of maxInclusive to be 2147483647 and minInclusive to be -2147483648

xsd:short

short is derived from int by setting the value of maxInclusive to be 32767 and minInclusive to be -32768

xsd:byte

byte is derived from short by setting the value of maxInclusive to be 127 and minInclusive to be -128

xsd:nonNegativeInteger

nonNegativeInteger is derived from integer by setting the value of minInclusive to be 0

xsd:unsignedLong

unsignedLong is derived from nonNegativeInteger by setting the value of maxInclusive to be 18446744073709551615

xsd:unsignedInt

unsignedInt is derived from unsignedLong by setting the value of maxInclusive to be 4294967295

xsd:unsignedShort

unsignedShort is derived from unsignedInt by setting the value of maxInclusive to be 65535

xsd:unsignedByte

unsignedByte is derived from unsignedShort by setting the value of maxInclusive to be 255

xsd:positiveInteger

positiveInteger is derived from nonNegativeInteger by setting the value of minInclusive to be 1

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