Terry Comms Ltd

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 'tel'. 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 tel stands for the namespace of http://telform.co/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.

Datatype name	Decription
tel:TelFormRootType	The basis on which the TelForm is formed.
xsd:string	The string datatype represents character strings in XML.
tel:EmailFieldType	EmailFieldType is checked for valid Email address format.
tel: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.
tel:MultipleChoiceType	Allows a number of options to be chosen from a range of values.
tel:MultipleChoiceItemType	One of several MultipleChoiceType options.
tel:ExclusiveChoiceType	Allows a single option to be chosen from a range of values.
tel:ExclusiveChoiceItemType	One of several ExclusiveChoiceType options.
tel:GROUP	A sub-group of fields may be attached to this node.
tel:RegEX	A holder for a datatype which contains a Regular Expression (RegEx). See link below.
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 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.

See XML Schema Regular Expressions (RegEx)