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Address
Specifications and Description Document

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Author: Valerie Smothers
Author email: valerie.smothers@medbiq.org

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The Universal Business Language (UBL) data model was reviewed in the creation of this schema. For more information about UBL, visit http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ubl.

Introduction

This document describes the MedBiquitous Address XML Schema in detail. It is intended for use by any one who wants to exchange address information based on this specification. The status of the document is indicated at the bottom of the page; draft documents are subject to review and approval through the MedBiquitous Process (seehttp://medbiq.org/working_groups/consortium_process/MedBiquitousANSIProcess.pdf).

The objective of this Address Schema is to provide a data structure that allows one to represent an address in a standard format. It can be used alone or imported into other XML schema that must represent addresses. It is designed to be highly reusable.

Address data is essential to professional medical societies, certifying boards, universities, and industry partners and is often exchanged among these entities for many purposes. A standard format for this data will simplify business processes for these organizations and could reduce administrative costs as well.

We encourage the use of this schema within other schema.

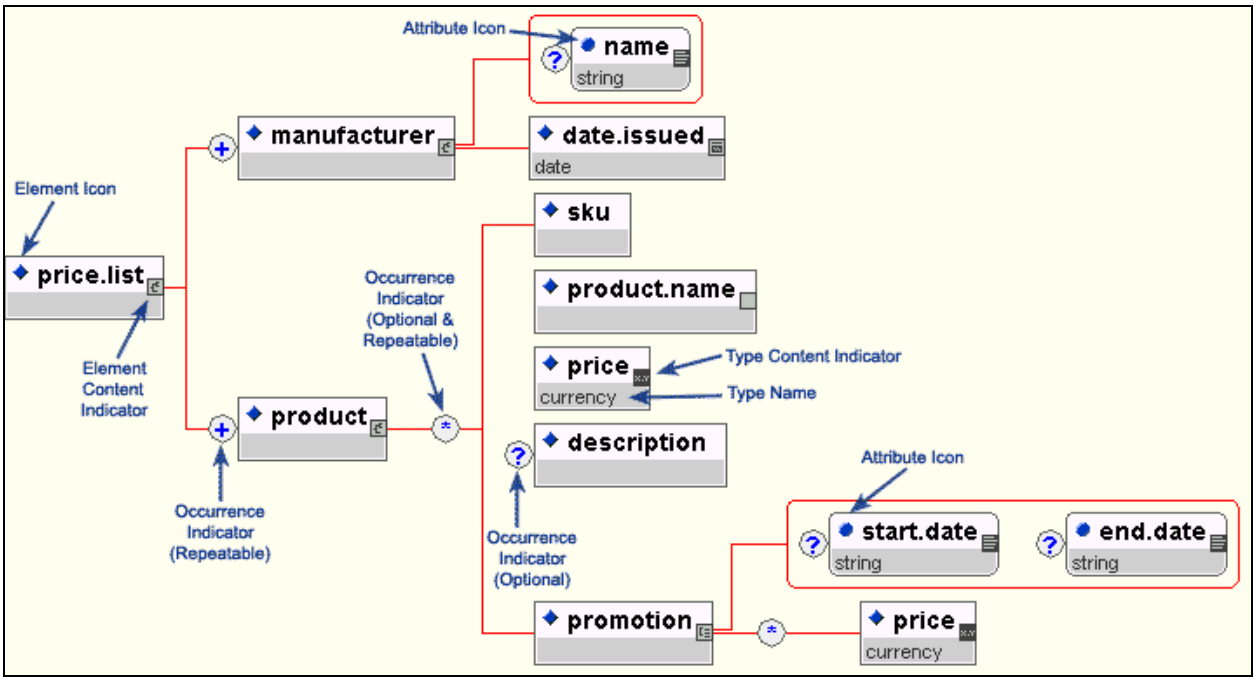
Documentation Conventions

This document uses the following conventions.

Documentation Conventions

Convention	Description
`monospaced type`	Sample XML tags, code, schema, or portion thereof
BoldText	When used with an XML tag name, indicates that the element contains sub-elements
Italicized Text	When used in an XML tag description, an attribute of the XML tag.
Tag description	Shading indicated that the tag is further described in a later part of the document

The following graphical standards are used for the XML diagrams in this document.



Graphical Standards from TIBCO's Turbo XML, Copyright TIBCO Software Inc.

Data Elements and Types

The Address schema includes the following data elements. Some of these elements have subelements.

1. Address
2. ID
3. Organization
4. StreetAddressLine
5. City
6. StateOrProvince
7. PostalCode
8. Region
9. District
10. Country

Address Schema Grammar

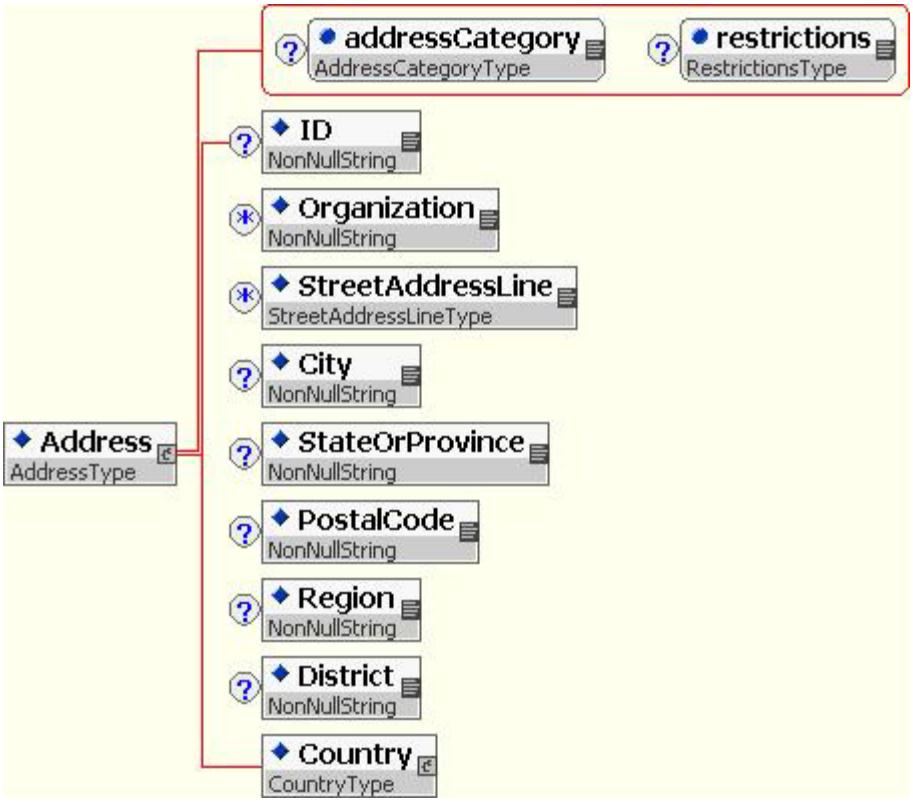
The following sections explain the Address schema grammar. Values in bold under XML Tags column indicate that the element has subelements.

The XML schema is available online at: http://ns.medbiq.org/address/v1/ .

Datatypes not otherwise defined in the document, such as date, refer to datatypes defined within the XML 1.0 technical specification. For information on these datatypes, see the W3C Extensible Markup Language (XML) 1.0 (Fourth Edition).

1 Address

Address is the root element of the schema. It contains subelements that define an address.



Address Information

Element	Description	Required	Multiplicity	Datatype
Address	Address is the root element. It contains sub-elements that define define a postal address in detail. Address has the following attribute: *addressCategory* indicates the type of address. Valid values are: Residential, Business, Undeliverable. *restrictions* Indicates whether this address is to be unrestricted, restricted, or confidential when sharing information with partner organizations or the general public. Valid values are: Unrestricted, Restricted, Confidential. Unrestricted indicates that a piece of data may be shared or published. Restricted indicates that a piece of data may be shared in some instances, but not published. Policies must be defined surrounding the use of restricted data. Confidential indicates that a piece of data may not be shared or published.	Required	1	Container
ID	ID is a subelement of the root Address. ID defines a unique identifier for a specific address.	Optional	0 or 1	Non-null String
Organization	Organization is a subelement of the root Address. Organization defines a company, institution, or department that is part of the address. For example, Department of Internal Medicine. When used multiple times, the order of appearance indicates the order in a formatted address.	Optional	0 or more	Non-null String

Element	Description	Required	Multiplicity	Datatype
StreetAddressLine	StreetAddressLine is a subelement of the root Address. It defines a single line of a street address. For example, 10 Kensington High Street. When used multiple times, the order of appearance indicates the order for the address lines in a formatted address. StreetAddressLine has the following attribute: *restrictions* Indicates whether this street address is to be unrestricted, restricted, or confidential when sharing information with partner organizations or the general public. Valid values are: Unrestricted, Restricted, Confidential. Unrestricted indicates that a piece of data may be shared or published. Restricted indicates that a piece of data may be shared in some instances, but not published. Policies must be defined surrounding the use of restricted data. Confidential indicates that a piece of data may not be shared or published.	Optional	0 or more	Non-null String
City	City is a subelement of the root Address. City defines the name of the city, town, or village included in the address. For example, London.	Optional	0 or 1	Non-null String
StateOrProvince	StateOrProvince is a subelement of the root Address. It defines the name of the state, province, or territorial division within a country. For example, British Columbia.	Optional	0 or 1	Non-null String
PostalCode	PostalCode is a subelement of the root Address. It defines the zipcode or other postal code used to facilitate the sorting of mail. For example, 21202.	Optional	0 or 1	Non-null String

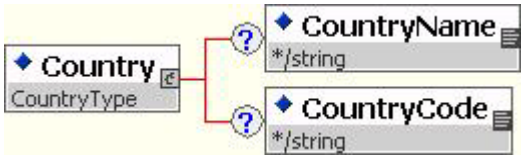
Element	Description	Required	Multiplicity	Datatype
Region	Region is a subelement of the root Address. Region defines a non-administrative division of a country, or a commonly used name for a grouping of countries. For example, Central America.	Optional	0 or 1	Non-null String
District	District is a subelement of the root Address. District defines a non-administrative division of a city, state, province, or country, as part of an address.	Optional	0 or 1	Non-null String
Country	Country is a subelement of the root Address. It contains elements that define the country name and country code.	Required	1	Container

Example:

```
   <Address addressCategory = "Business" restrictions = "Unrestricted">
      <Organization>Department of Cardiac Surgery</Organization>
      <Organization>Johns Hopkins School of Medicine</Organization>
      <StreetAddressLine restrictions = "Unrestricted">Blalock
618</StreetAddressLine>
      <StreetAddressLine restrictions = "Unrestricted">600 N. Wolfe
Street</StreetAddressLine>
      <City>Baltimore</City>
      <StateOrProvince>MD</StateOrProvince>
      <PostalCode>21287</PostalCode>
      <Country>
         <CountryCode>US</CountryCode>
      </Country>
   </Address>
```

2 Country

Country contains subelements that define a country name and ISO 3166 alpha country code.



Country Element Information

Element	Description	Required	Multiplicity	Datatype
Country	Country is a subelement of the root Address. It contains elements that define the country name and country code.	Required	1	Container
CountryName	CountryName is a subelement of Country. It defines the name of the country included in the address. For example, Switzerland.	Optional	0 or 1	Non-null String
CountryCode	CountryCode is a subelement of Country. It defines the ISO 3166 alpha code for a particular country. For Switzerland, the country code is CH.	Optional	0 or 1	Non-null String

Example:

```
   <Country>
      <CountryName>Switzerland</CountryName>
      <CountryCode>CH</CountryCode>
   </Country>
```

References

ISO 3166 Codes for the representation of names of countries and their subdivisions, http://www.iso.org/iso/country_codes/iso_3166_code_lists/

Sample XML Document

```
<?xml version = "1.0" encoding = "UTF-8"?>
<Address xmlns = "http://ns.medbiq.org/address/v1/"
xmlns:xsi = "http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation = "http://ns.medbiq.org/address/v1/
http://ns.medbiq.org/address/v1/address.xsd"
addressCategory = "Business" restrictions = "restricted">
   <StreetAddressLine>26-40 Kensington High Street</StreetAddressLine>
   <City>London</City>
   <PostalCode>W8 4PF</PostalCode>
   <Country>
      <CountryName>United Kingdom</CountryName>
   </Country>
</Address>
```