

Emergency Data Exchange Language (EDXL) Common Types (CT) Version 1.0

Working Draft 07

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<http://docs.oasis-open.org/emergency/edxl-ct/v1.0/csd03/edxl-ct-v1.0-csd03.html>

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Additional artifacts:

This prose specification is one component of a Work Product that also includes:

* XML schemas: <http://docs.oasis-open.org/emergency/edxl-ct/v1.0/csd03/xsd/>

Declared XML namespaces:

* <http://docs.oasis-open.org/ns/emergency/edxl-ct/v1.0>
* urn:oasis:names:tc:emergency:edxl:ct:1.0
* urn:oasis:names:tc:emergency:EDXL:CT:1.0

Abstract:

This Common Types describes components and component types that can be reused across the suite of Emergency Data Exchange Language (EDXL) standards. These common components and types are intended for internal use by the Emergency Management Technical Committee and its subcommittees as they develop specific standards utilizing these types.

Status:

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[EDXL-CT]

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# Introduction

[All text is normative unless otherwise labeled]

This document describes common components and component types that can be reused across the suite of Emergency Data Exchange Language (EDXL) standards. This document is intended for internal use by the Emergency Management Technical Committee and its subcommittees as they develop specific standards utilizing these types. The goal is to enable reuse of components which are commonly used in specifications and which have been designed based on lessons learned from the development of the Common Alert Protocol 1.1, the Distribution Element 1.0, Hospital Availability and Resource Messaging. The first use of these common components is intended to be in Situation Reports 1.0 and the Distribution Element 2.0. The components will be used and expanded as needed for future EDXL specifications.

## Terminology

The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described in [RFC2119].

## Normative References

[RFC2119]

S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*, BCP 14, RFC 2119, March 1997. http://www.ietf.org/rfc/rfc2119.txt.

[RFC2046]

N. Freed, *Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types*, IETF RFC 2046, November 1996. http://www.ietf.org/rfc/rfc2046.txt.

[RFC3066]

H. Alvestrand, *Tags for the Identification of Languages*, IETF RFC 3066, January 2001. http://www.ietf.org/rfc/rfc3066.txt.

[WGS 84]

National Geospatial Intelligence Agency, Department of Defense, *World Geodetic System 1984*, NGA Technical Report TR8350.2, January 2000. http://earth-info.nga.mil/GandG/publications/tr8350.2/wgs84fin.pdf.

[XML 1.0]

T. Bray, *Extensible Markup Language* (*XML*) *1.0* (*Third Edition*), W3C REC-XML-20040204, (Fifth Edition), 26 November 2008. http://www.w3.org/TR/REC-xml/.

[namespaces]

T. Bray, *Namespaces in XML*, W3C REC-xml-names-19990114, (Third Edition) W3C Recommendation 8 December 2009. http://www.w3.org/TR/REC-xml-names/.

[dateTime]

N. Freed, *XML Schema Part 2: Datatypes* (*Second Edition*), W3C REC-xmlschema-2, October 2004. http://www.w3.org/TR/xmlschema-2/#dateTime.

## Non-Normative References

[EDXL GFR]

*EDXL General Functional Requirements*, OASIS Emergency Management TC, 4 November 2004 <http://www.oasis-open.org/committees/download.php/10031/EDXL%20General%20Functional%20Requirements.doc>,

[EDXL-DE IG]

*EDXL Distribution Element Implementer's Guide*, Edited by Patti Aymond, 19 Aug. 2005. OASIS Working Draft WD01. [http://www.oasis-open.org/committees/download.php/14120/EDXL\_Implementer%27sGuide.doc](http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer'sGuide.doc)

# Design Principles & Concepts (non-normative)

## Design Philosophy

Below are some of the guiding principles of the EDXL CT Specification:

1. Provide a method to capture and reuse xml types and elements for representing persons and organizations which are commonly needed across multiple EDXL standards.
2. Provide flexible mechanisms to update the EDXL CT Specification efficiently, without slowing down the EDXL standards development process.
3. Allow for easy updates to capture fixes or improvements.
4. Ease the reuse and understanding of the basic data components and protocols, important for emergency management and common across multiple specifications.
5. Speed the development of EDXL Standards through reuse of common components and thereby improve information sharing and data exchange across the local, state, tribal, national and non-governmental organizations of different professions that provide emergency response and management services.
6. Support the integration of data elements from profiles which enables efficient and effective reuse of other important open standards.

## Structural Summary

About multiplicity notation: “[l..h]” designates range from lower bound l to higher bound h, with both l and h Natural numbers, 0 ≤ l ≤ h, plus option “\*” (unbounded) for h.

### Simple Types

Type name depends on

* + EDXLDateTimeType xs:dateTime
  + EDXLStringType xs:token
  + PercentageType xs:float
  + ValueListURIType xs:anyURI
  + ValueType xs:string
  + CurrencyType xs:string
  + DegreesCType xs:float [-100 .. 70]
  + DegreesCircleType xs:float [0 .. 360]
  + WeatherQualifierType xs:string [*enumeration*]
  + WeatherDescriptorType xs:string [*enumeration*]
  + WeatherPrecipitationType xs:string [*enumeration*]
  + WeatherObscurationType xs:string [*enumeration*]
  + WeatherAddlPhenomType xs:string [*enumeration*]
  + SkyConditionType xs:string [*enumeration*]
  + RemarksType xs:string
  + EstimateType xs:boolean
  + LimitedString xs:string

### Complex Types

Type name depends on

* + ValueListType ct:valueListURI, ct:value
  + ValueKeyType ct:valueListURI, ct:value
  + ValueKeyStringPairType ct:ValueKeyType, xs:string
  + ValueKeyIntPairType ct:ValueKeyType, xs:int
  + FreeTextType ct:LimitedString, xs:string
  + AlternateTextType ct:LimitedStriing, xs:string
  + TimePeriodType ct:EDXLDateTimeType
  + PersonTimePairType ct:PersonDetailsType, ct:EDXLDateTimeType
  + OrganizationInformationType xpil:OrganizationDetailsType
  + PersonDetailsType xpil:PersonDetailsType
  + METARType *sequence of elements*
    - stationID [1,1] xs:string *restricted*
    - observationTime [1,1] ct:EDXLDateTimeType
    - tempC [0,1] ct:DegreesCType
    - dewPointC [0,1] ct:DegreesCType
    - windDirDegrees [0,1] ct:DegreesCircleType
    - windSpeedkt [0,1] xs:int [0 .. 300]
    - windGustkt [0,1] xs:int [0 .. 300]
    - visibilityStatuteMI [0,1] xs:float [0.0 .. 10.0]
    - altimeterHP [0,1] xs:int [800 .. 1200]
    - seaLevelPressuremb [0,1] xs:int [800 .. 1200]
    - weatherPhenomenaReport [0,1] *sequence of elements*
      * qualifier [0,1] ct:WeatherQualifierType
      * descriptor [0,1] ct:WeatherDescriptorType
      * precipitation [0,1] ct:WeatherPrecipitationType
      * obscuration [0,1] ct:WeatherObscurationType
      * additional [0,1] ct:WeatherAddlPhenomType
    - skyCondition [0,1] ct:SkyConditionType
    - precip1HrIn [0,1] xs:float *restricted*
    - precip3HrIn [0,1] xs:float *restricted*
    - precip6HrIn [0,1] xs:float *restricted*
    - precip24HrIn [0,1] xs:float *restricted*
  + WeatherInfoType *sequence of elements*
    - METARString [0,1] xs:string
    - METARReadings [0,1] ct:METARType
    - weatherRemarks [0,1] xs:string
    - weatherConcerns [0,1] xs:string
  + EDXLGeoPoliticalLocationType *choice of elements*
    - address [1,1] xal:AddressType

**xor**

* + - geoCode [1,1] ct:ValueListType
  + EDXLLocationType *choice of elements*
    - EDXLGeoLocation [1,1] edxl-gsf:EDXLGeoLocationType

**xor**

* + - EDXLGeoPoliticalLocation [1,1] ct:EDXLGeoPoliticalLocationType

### Top Level Elements

Element name depends on

* + valueListURI ct:ValueListURIType
  + value ct:ValueType
  + weatherInfo ct:WeatherInfoType

# EDXL Common Types Structure (normative)

## Data Dictionary

Namespaces and prefixes used below include:

xs="http://www.w3.org/2001/XMLSchema"

ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"

xpil="urn:oasis:names:tc:emergency:edxl:ciq:1.0:xpil"

xal="urn:oasis:names:tc:emergency:edxl:ciq:1.0:xal"

xnl="urn:oasis:names:tc:emergency:edxl:ciq:1.0:xnl"

### EDXL Common Simple Types

|  |  |
| --- | --- |
| **Type** | EDXLDateTimeType |
| BaseType | Restricted xs:dateTime |
| Restriction | Pattern "\d\d\d\d-\d\d-\d\dT\d\d:\d\d:\d\d[-,+]\d\d:\d\d" |
| Usage | Use wherever you would otherwise use xs:dateTime |
| Definition | A restricted form of dateTime which requires the use of a timezone offset and thereby prohibits the use of “Z” without an offset. Also prohibited is the use fractional seconds. |
| Comments | 1. The uniform requirement for a timezone offset provides greater reliability and robustness for emergency systems. |
| Schema  Component | <xs:simpleType name=”EDXLDateTimeType">  <xs:restriction base="xs:dateTime">  <xs:pattern value="\d\d\d\d-\d\d-\d\dT\d\d:\d\d:\d\d[-,+]\d\d:\d\d"/>  </xs:restriction>  </xs:simpleType> |
| Used In | Top level type |
| Example | <dateTimeSent>2009-11-15T16:53:00-05:00</dateTimeSent> |

|  |  |
| --- | --- |
| **Type** | **EDXLStringType** |
| BaseType | Restricted xs:token |
| Restriction | minLength = 1, maxLength = 1023 |
| Usage | Use wherever you would otherwise use xs:string |
| Definition | A restricted form of string which is limited to 1023 characters (and must be at least 1 character) in length |
| Comments | 1. This common type provides a string type which is of long but limited length. Emergency systems shouldn't be required to manage indefinitely long string lengths. maxLength counts the maximum number of characters in the string. 2. This type does not exclude the use of the more general xs:string, but should be applied whenever length limitation is technically indicated, e.g.   - to prevent circumvention of REQUIRED usage by supplying an empty string (length 0), or  - for coding or transmission efficiency. |
| Schema  Component | <xs:simpleType name="EDXLStringType">  <xs:restriction base="xs:token">  <xs:maxLength value="1023"/>  <xs:minLength value="1"/>  </xs:restriction>  </xs:simpleType> |
| Used In | Top level type |
| Example | <senderID>mary.thompson@myagency.gov</senderID> |

|  |  |
| --- | --- |
| **Type** | **LimitedString** |
| BaseType | Restricted xs:string |
| Restriction | maxLength = 1024 |
| Usage | Use wherever you would otherwise use xs:string |
| Definition | Text block for preserving whitespace but limiting length to 1024 characters |
| Comments | 1. This common type provides a string type which is of long but limited length. Emergency systems shouldn't be required to manage indefinitely long string lengths. maxLength counts the maximum number of characters in the string. 2. This type does not exclude the use of the more general xs:string, but should be applied whenever whiespace needs to be preserved for formatting and length limitation is needed |
| Schema  Component | <xs:simpleType name="LimitedString">  <xs:restriction base="xs:string">  <xs:whitespace value="preserve"/>  <xs:maxLength value="1024"/>  </xs:restriction>  </xs:simpleType> |
| Used In | Top level type |
| Example |  |

|  |  |
| --- | --- |
| **Type** | **PercentageType** |
| BaseType | Restricted xs:float |
| Restriction | minInclusive=0, maxInclusive=100.0 |
| Usage | Use wherever you need to use a percentage |
| Definition | A restricted form of unsigned floating number ranging from 0.0 to 100.0 inclusive intended to represent a percentage |
| Comments | 1. Percentages are often used in emergency messages so this Percentage type facilitates a standardized format as opposed to ad hoc percentage formats. |
| Schema  Component | <xs:simpleType name="PercentageType">  <xs:restriction base="xs:float">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="100.0"/>  </xs:restriction>  </xs:simpleType> |
| Used In | Top level type |
| Example | <percentage>100<percentage> |

|  |  |
| --- | --- |
| **Type** | **ValueListURIType** |
| BaseType | Restricted xs:anyURI |
| Restriction | None. |
| Usage | Used to denote the URI of a valueList and related types |
| Definition | A URI referencing an externally-managed list of values. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueListType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a valueListURI providing a unique identifier for the external “list” and then followed by a value or values from that list. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. |
| Schema  Component | <xs:simpleType name="ValueListURIType">  <xs:restriction base="xs:anyURI"/>  </xs:simpleType> |
| Used In | Top level type |
| Examples |  |

|  |  |
| --- | --- |
| **Type** | **ValueType** |
| BaseType | Restricted xs:string |
| Restriction | None. |
| Usage | Used to denote the value(s) of a valueList and related types |
| Definition | A string value from an externally-managed list of values referenced by a valueListURI. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueListType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a valueListURI providing a unique identifier for the external “list” and then followed by a value or values from that “list”. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. |
| Schema  Component | <xs:simpleType name="Value">  <xs:restriction base="xs:string"/>  </xs:simpleType> |
| Used In | Top level type |
| Examples |  |

|  |  |
| --- | --- |
| **Type** | **RemarksType** |
| BaseType | Restricted xs:string |
| Restriction | None. |
| Usage |  |
| Definition | General comments or remarks associated with any applicable element. |
| Comments | 1. Initially used in EDXL-SitRep SituationInformation, ManagementReportingSummary” and CasualtyAndIllnes Summary Report Types. 2. Source: ICS 201 |
| Schema  Component | <xs:simpleType name="RemarksType">  <xs:restriction base="xs:string"/>  </xs:simpleType> |
| Used In | Top level type |
| Examples | ” Wildcat Canyon Mudslide”  Disaster declared by MyCounty was initially declared by MyTownship as “Pleasant Creek Neighborhood Sinkhole.” Incident. |

|  |  |
| --- | --- |
| **Type** | **EstimateType** |
| BaseType | xs:boolean |
| Restriction | None. |
| Usage |  |
| Definition | To designate whether a number or figure is actual or estimated.  Values include:  ‘Y” = Estimated  “N” = Not Estimated. |
| Comments | Source: ICS 209 |
| Schema  Component | <xs:simpleType name="EstimateType">  <xs:restriction base="xs:boolean"/>  </xs:simpleType> |
| Used In | Top level type |
| Examples |  |

|  |  |
| --- | --- |
| **Type** | **CurrencyType** |
| BaseType | xs:string |
| Restriction | Pattern "([0-9])+[.][0-9][0-9] [A-Z][A-Z][A-Z]" |
| Usage | Use wherever currency is used in a specification. |
| Definition | A CurrencyType is at least one number followed by 0 or more numbers, followed by an optional fractional part, and followed by three capital letters designating the currency code (ISO 4217). |
| Comments |  |
| Schema  Component | <xs:simpleType name="CurrencyType">  <xs:restriction base="xs:string">  <xs:pattern value="([0-9])+[.][0-9][0-9] [A-Z][A-Z][A-Z]"/>  </xs:restriction>  </xs:simpleType> |
| Used In | Top level type |
| Examples | <currency>45USD</currency>  <currency xsi:schemaLocation="urn:oasis:names:tc:emergency:edxl:ct:1.0: EDXL\_Common\_Types\_ver05.xsd" xmlns:xsi="<http://www.w3.org/2001/XMLSchema-instance>"xmlns:ct="urn:oasis:names:tc:emergency:EDXL:CT:1.0">099999999999999999.00 AAA</currency> |

|  |  |
| --- | --- |
| **Type** | **DegreesCType** |
| BaseType | Restricted xs:float |
| Restriction | minInclusive=-100.0, maxInclusive=70.0 |
| Usage | Use wherever degree Celsius is used in a specification. |
| Definition | A restricted form of floating number ranging from -100.0 to 70.0 inclusive, intended to represent a temperature in degrees centigrade |
| Comments |  |
| Schema  Component | <xs:simpleType name="DegreesCType">  <xs:restriction base="xs:float">  <xs:minInclusive value="-100.0"/>  <xs:maxInclusive value="70.0"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.tempC |
| Examples | <tempC>37.2</tempC> |

|  |  |
| --- | --- |
| **Type** | **DegreesCircleType** |
| BaseType | Restricted xs:float |
| Restriction | minInclusive= 0.0, maxInclusive=360.0 |
| Usage | Use wherever an angle measurement in degrees is used in a specification. |
| Definition | A restricted form of unsigned floating number ranging from 0.0 to 360.0 inclusive, intended to represent an angle measurement in degrees. |
| Comments |  |
| Schema  Component | <xs:simpleType name="DegreesCircleType">  <xs:restriction base="xs:float">  <xs:minInclusive value="0.0"/>  <xs:maxInclusive value="360.0"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.windDirDegrees |
| Examples | <windDirDegrees>32.3</windDirDegrees> |

### EDXL Enumerated Types

|  |  |
| --- | --- |
| **Type** | **WeatherQualifierType** |
| BaseType | Enumeration |
| Values | “Light”, “Moderate”, “Heavy” |
| Usage |  |
| Definition | A selection of qualifiers to categorize types of weather. |
| Comments |  |
| Schema  Component | <xs:simpleType name="WeatherQualifierType">  <xs:restriction base="xs:string">  <xs:enumeration value="Light"/>  <xs:enumeration value="Moderate"/>  <xs:enumeration value="Heavy"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.weatherPhenomenaReport.qualifier |
| Examples | <qualifier>Light</qualifier> |

|  |  |
| --- | --- |
| **Type** | **WeatherDescriptorType** |
| BaseType | Enumeration |
| Values | “Shallow”, “Blowing”, “Patches”, “Showers”, “Partial”, “Drifting”, “Thunderstorm”, “Freezing” |
| Usage |  |
| Definition | A selection of weather characteristics. |
| Comments |  |
| Schema  Component | <xs:simpleType name="WeatherDescriptorType">  <xs:restriction base="xs:string">  <xs:enumeration value="Shallow"/>  <xs:enumeration value="Blowing"/>  <xs:enumeration value="Patches"/>  <xs:enumeration value="Showers"/>  <xs:enumeration value="Partial"/>  <xs:enumeration value="Drifting"/>  <xs:enumeration value="Thunderstorm"/>  <xs:enumeration value="Freezing"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.weatherPhenomenaReport.descriptor |
| Examples | <descriptor>Showers</descriptor> |

|  |  |
| --- | --- |
| **Type** | **WeatherPrecipitationType** |
| BaseType | Enumeration |
| Values | “Drizzle”, “Ice Crystals”, “Unknown”, “Rain”, “Ice Pellets”, “Snow”, “Hail”, “Snow Grains”, “Snow Hail” |
| Usage |  |
| Definition | A selection of precipitation characteristics. |
| Comments |  |
| Schema  Component | <xs:simpleType name="WeatherPrecipitationType">  <xs:restriction base="xs:string">  <xs:enumeration value="Drizzle"/>  <xs:enumeration value="Ice Crystals"/>  <xs:enumeration value="Unknown"/>  <xs:enumeration value="Rain"/>  <xs:enumeration value="Ice Pellets"/>  <xs:enumeration value="Snow"/>  <xs:enumeration value="Hail"/>  <xs:enumeration value="Snow Grains"/>  <xs:enumeration value="Snow Hail"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.weatherPhenomenaReport.precipitation |
| Examples | <precipitation>Drizzle</precipitation> |

|  |  |
| --- | --- |
| **Type** | **WeatherObscurationType** |
| BaseType | Enumeration |
| Values | “Mist”, “Sand”, “Smoke”, “Haze”, “Volcanic Ash”, “Spray”, “Widespread Dust”, “Other” |
| Usage |  |
| Definition | A selection of qualifiers to categorize types of obscuration. |
| Comments |  |
| Schema  Component | <xs:simpleType name="WeatherObscurationType">  <xs:restriction base="xs:string">  <xs:enumeration value="Mist"/>  <xs:enumeration value="Sand"/>  <xs:enumeration value="Smoke"/>  <xs:enumeration value="Haze"/>  <xs:enumeration value="Volcanic Ash"/>  <xs:enumeration value="Spray"/>  <xs:enumeration value="Widespread Dust"/>  <xs:enumeration value="Other"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.weatherPhenomenaReport.obscuration |
| Examples | <obscuration>Other</obscuration> |

|  |  |
| --- | --- |
| **Type** | **WeatherAddlPhenomType** |
| BaseType | Enumeration |
| Values | “Squall”, “Funnel Cloud”, “Sandstorm”, “Tornado”, “Waterspout”, “Duststorm”, “Dust Whirls” |
| Usage |  |
| Definition | A selection of qualifiers for weather phenomena. |
| Comments |  |
| Schema  Component | <xs:simpleType name="WeatherAddlPhenomType">  <xs:restriction base="xs:string">  <xs:enumeration value="Squall"/>  <xs:enumeration value="Funnel Cloud"/>  <xs:enumeration value="Sandstorm"/>  <xs:enumeration value="Tornado"/>  <xs:enumeration value="Waterspout"/>  <xs:enumeration value="Duststorm"/>  <xs:enumeration value="Dust Whirls"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.weatherPhenomenaReport.additional |
| Examples | <additional>Dust Whirls</additional> |

|  |  |
| --- | --- |
| **Type** | **SkyConditionType** |
| BaseType | Enumeration |
| Values | “Sky Clear”, “Few”, “Scattered”, “Broken”, “Overcast” |
| Usage |  |
| Definition | A selection of qualifiers for sky conditions. |
| Comments |  |
| Schema  Component | <xs:simpleType name="SkyConditionType">  <xs:restriction base="xs:string">  <xs:enumeration value="Sky Clear"/>  <xs:enumeration value="Few"/>  <xs:enumeration value="Scattered"/>  <xs:enumeration value="Broken"/>  <xs:enumeration value="Overcast"/>  </xs:restriction>  </xs:simpleType> |
| Used In | METARType.skyCondition |
| Examples | <skyCondition>Overcast</skyCondition> |

### EDXL Common Complex Types

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| --- | --- |
| **Type** | **ValueListType** |
| BaseType | xs:complexType |
| Restriction | None. |
| Usage | Use wherever a specification needs values from an externally managed list. |
| Definition | A ValueListType includes one valueListURI element and one or more value elements. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueListType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a valueListURI providing a unique identifier for the external “list” and then followed by a value or values from that “list”. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. 2. A lesson learned is that enumerated types provide a brittle, hard-to-change solution to a list of types which needs to satisfy the needs of many jurisdictions. |
| Schema  Component | <xs:complexType name="ValueListType">  <xs:sequence>  <xs:element ref="ct:valueListURI" minOccurs="1" maxOccurs="1"/>  <xs:element ref="ct:value" minOccurs="1" maxOccurs="unbounded"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <keyword>  <ct:valueListURI>urn:myagency:gov:sensors:keywords</ct:ValueListURI>  <ct:value>SNM Detection</ct:value>  <ct:value>XYZ</ct:value>  </keyword> |

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| --- | --- |
| **Type** | **ValueKeyType** |
| BaseType | xs:complexType |
| Restriction | None. |
| Usage | Use wherever a specification needs one single value from an externally managed list. |
| Definition | A ValueKeyType includes one valueListURI element and one and only one value element. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueKeyType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a valueListURI providing a unique identifier for the external “list” and then followed by a value from that “list”. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. 2. A lesson learned is that enumerated types provide a brittle, hard-to-change solution to a list of types which needs to satisfy the needs of many jurisdictions. 3. A lesson learned is that from some kinds of lists only one value is appropriate and multiple values would be an error. In this case, use ValueKeyType instead of ValueListType. |
| Schema  Component | <xs:complexType name="ValueKeyType">  <xs:sequence>  <xs:element ref="ct:valueListURI" minOccurs="1" maxOccurs="1"/>  <xs:element ref="ct:value" minOccurs="1" maxOccurs="1"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <DistributionDefType>  <ct:valueListURI>  urn:oasis:names:tc:emergency:EDXL:DE:2.0:Defaults:DistributionType  </ct:valueListURI>  <ct:value>Report</ct:value>  </DistributionDefType> |

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| --- | --- |
| **Type** | **ValueKeyStringPairType** |
| BaseType | xs:complexType |
| Usage | Use wherever a specification needs one single value from an externally managed list paired with a string. |
| Definition | A ValueKeyStringPairType includes one valueKeyURI (of type ValueKeyType containing a valueListURI and one single Value) followed by a pairValue of type xs:string. |
| Comments |  |
| Schema  Component | <xs:complexType name="ValueKeyStringPairType">  <xs:sequence>  <xs:element name="valueKeyURI" type="ct:ValueKeyType"  minOccurs="1" maxOccurs="1"/>  <xs:element name="pairValue" type="xs:string"  minOccurs="1" maxOccurs="1"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <aValueKeyStringPair>  <ct:valueKeyURI>  <ct:valueListURI><http://example.com/lists/mylist></ct:valueListURI>  <ct:value>OneSingleValue</ct:value>  </ct:valueKeyURI>  <ct:pairValue>A Paired String</ct:pairValue>  </aValueKeyStringPair> |

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| --- | --- |
| **Type** | ValueKeyIntPairType |
| BaseType | xs:complexType |
| Usage | Use wherever a specification needs one single value from an externally managed list paired with an integer. |
| Definition | A ValueKeyIntPairType includes one valueKeyURI (of type ValueKeyType containing a valueListURI and one single value) followed by a pairValue of type xs:int. |
| Comments |  |
| Schema  Component | <xs:complexType name="ValueKeyIntPairType">  <xs:sequence>  <xs:element name="valueKeyURI" type="ct:ValueKeyType"  minOccurs="1" maxOccurs="1"/>  <xs:element name="pairValue" type="xs:int"  minOccurs="1" maxOccurs="1"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <aValueKeyIntPair>  <ct:valueKeyURI>  <ct:valueListURI>  <http://example.com/lists/mylist>  </ct:valueListURI>  <ct:value>OneSingleValue</ct:value>  </ct:valueKeyURI>  <ct:pairValue>37</ct:pairValue>  </aValueKeyIntPair> |

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| --- | --- |
| **Type** | TimePeriodType |
| BaseType | xs:complexType |
| Usage | Use wherever a specification needs to represent a period of time. |
| Definition | A TimePeriodType includes one and only one fromDateTime of type ct:EDXLDateTimeType and one and only one toDateTime element of type ct:EDXLDateTimeType . |
| Comments | 1. Time periods are commonly needed in emergency standards. This type provides a simple and useful representation of a time period which can be used for uniformity throughout the EDXL specifications. |
| Schema  Component | <xs:complexType name="TimePeriodType">  <xs:sequence>  <xs:element name="fromDateTime" type="ct:EDXLDateTimeType"  minOccurs="1" maxOccurs="1"/>  <xs:element name="toDateTime" type="ct:EDXLDateTimeType"  minOccurs="1" maxOccurs="1"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level element |
| Examples | <aTimePeriod>  <ct:fromDateTime>2009-11-15T17:53:00-05:00</ct:fromDateTime>  <ct:toDateTime>2009-11-15T16:53:00-05:00</ct:toDateTime>  </aTimePeriod> |

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| --- | --- |
| **Type** | **FreeTextType** |
| BaseType | xs:complexType |
| Usage | Use wherever you would otherwise use xs:string with limited length, preserving whitespace formatting. |
| Definition | The text value that uses the message default language (defined at in the defaultLanguage attribute). |
| Comments |  |
| Schema  Component | <xs:complexType name="FreeTextType">  <xs:sequence>  <xs:element name="defaultText" type="ct:LimitedString">  <xs:annotation>  <xs:documentation>The text value that uses the message default language (defined at in the defaultLanguage attribute).</xs:documentation>  </xs:annotation>  </xs:element>  <xs:element name="alternateText" type="ct:AlternateTextType" minOccurs="0" maxOccurs="unbounded">  <xs:annotation>  <xs:documentation>Alternate language representation.</xs:documentation>  </xs:annotation>  </xs:element>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples |  |

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| --- | --- |
| **Type** | AlternateTextType |
| BaseType | xs:complexType |
| Usage | Use wherever a specifiied alternate language needs to be used. |
| Definition | Language code for the text in this element. Code MUST comply with RFC3066. |
| Comments |  |
| Schema  Component | <xs:complexType name="AlternateTextType">  <xs:simpleContent>  <xs:extension base="ct:LimitedString">  <xs:attribute name="language" type="xs:string" use="required">  <xs:annotation>  <xs:documentation>Language code for the text in this element. Code MUST comply with RFC3066. </xs:documentation>  </xs:annotation>  </xs:attribute>  </xs:extension>  </xs:simpleContent>  </xs:complexType> |
| Used In | Top level type |
| Examples |  |

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| --- | --- |
| **Type** | **PersonTimePairType** |
| BaseType | xs:complexType |
| Usage | Use wherever a specification needs to represent a person paired with a time. |
| Definition | A PersonTimePairType includes one and only one personDetails element of type ct:PersonDetailsType and one and only one timeValue of type ct:EDXLDateTimeType. |
| Comments |  |
| Schema  Component | <xs:complexType name="PersonTimePairType">  <xs:sequence>  <xs:element name="personDetails" type="ct:PersonDetailsType"  minOccurs="1" maxOccurs="1"/>  <xs:element name="timeValue" type="ct:EDXLDateTimeType"  minOccurs="1" maxOccurs="1"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <aPersonTimePair>  <ct:personDetails>  <xnl:PersonName>  <xnl:NameElement>Mary Smith</xnl:NameElement>  </xnl:PersonName>  </ct:personDetails>  <ct:timeValue>2009-11-15T17:53:00-05:00</ct:timeValue>  </aPersonTimePair> |

|  |  |
| --- | --- |
| **Type** | **METARType** |
| BaseType | xs:complexType |
| Usage |  |
| Definition | A subset of the METAR weather data set. |
| Comments | This is a verbose form for reporting METAR weather information |
| Sub-elements | * stationID [1..1] of type xs:string restricted * observationTime [1..1] of type ct:EDXLDateTimeType * tempC [0..1] of type ct:DegreesCType * dewPointC [0..1] of type ct:DegreesCType * windDirDegrees [0..1] of type ct:DegreesCircleType * windSpeedkt [0..1] of type xs:int restricted * windGustkt [0..1] of type xs:int restricted * visibilityStatuteMI [0..1] of type xs:float restricted * altimeterHP [0..1] of type xs:int restricted * seaLevelPressuremb [0..1] of type xs:float restricted * weatherPhenomenaReport [0..1] of type xs:complexType * skyCondition [0..1] of type ct:SkyConditionType * precip1HrIn [0..1] of type xs:float restricted * precip3HrIn [0..1] of type xs:float restricted * precip6HrIn [0..1] of type xs:float restricted * precip24HrIn [0..1] of type xs:float restricted |
| Schema  Component | See schema  <xs:complexType name="METARType">  ..  </xs:complexType> |
| Used In | Top level type |
| Examples | <myMETAR>  <ct:stationID>KEYF</ct:stationID>  <ct:observationTime>2011-04-23T01:41:00+00:00</ct:observationTime>  <ct:tempC>37.2</ct:tempC>  <ct:dewpointC>10.0</ct:dewpointC>  <ct:windDirDegrees>32.3</ct:windDirDegrees>  <ct:windSpeedkt>20</ct:windSpeedkt>  <ct:windGustkt>50</ct:windGustkt>  <ct:visibilityStatuteMI>1.0</ct:visibilityStatuteMI>  <ct:altimeterHP>800</ct:altimeterHP>  <ct:seaLevelPressuremb>800</ct:seaLevelPressuremb>  <ct:weatherPhenomenaReport>  ...  </ct:weatherPhenomenaReport>  <ct:skyCondition>Overcast</ct:skyCondition>  <ct:precip1HrIn>00.01</ct:precip1HrIn>  <ct:precip3HrIn>01.00</ct:precip3HrIn>  <ct:precip6HrIn>01.23</ct:precip6HrIn>  <ct:precip24HrIn>02.25</ct:precip24HrIn>  </myMETAR> |

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| --- | --- |
| **Sub-Element** | [METARType.]stationID |
| Type | xs:string restricted |
| Restriction | Pattern "[A-Z]{4}" |
| Usage | [1..1] |
| Definition | Identifies the reporting station |
| Comments | Four-character ICAO Location Indicator |
| Schema  Component | <xs:element name="stationID" minOccurs="1">  <xs:simpleType>  <xs:restriction base="xs:string">  <xs:pattern value="[A-Z]{4}"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:stationID>KEYF</ct:stationID> |

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| --- | --- |
| **Sub-Element** | [METARType.]windSpeedkt |
| Type | xs:int restricted |
| Restriction | Range [0 .. 300] |
| Usage | [0..1] |
| Definition | Wind speed in knots |
| Comments |  |
| Schema  Component | <xs:element name="windSpeedkt" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="300"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:windSpeedkt>20</ct:windSpeedkt> |

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| --- | --- |
| **Sub-Element** | [METARType.]windGustkt |
| Type | xs:int restricted |
| Restriction | Range [0 .. 300] |
| Usage | [0..1] |
| Definition | Speed of wind gusts in knots |
| Comments |  |
| Schema  Component | <xs:element name="windGustkt" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:minInclusive value="0"/>  <xs:maxInclusive value="300"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:windGustkt>50</ct:windGustkt> |

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| --- | --- |
| **Sub-Element** | [METARType.]visibilityStatuteMI |
| Type | xs:float restricted |
| Restriction | Range [0 .. 10.0] |
| Usage | [0..1] |
| Definition | Visibility in Statute Miles |
| Comments |  |
| Schema  Component | <xs:element name="visibilityStatuteMI" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:float">  <xs:minInclusive value="0.0"/>  <xs:maxInclusive value="10.0"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:visibilityStatuteMI>1.0</ct:visibilityStatuteMI> |

|  |  |
| --- | --- |
| **Sub-Element** | [METARType.]altimeterHP |
| Type | xs:int restricted |
| Restriction | Range [800 .. 1200] |
| Usage | [0..1] |
| Definition | Altimeter measurement in hectopascal |
| Comments |  |
| Schema  Component | <xs:element name="altimeterHP" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:minInclusive value="800"/>  <xs:maxInclusive value="1200"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:altimeterHP>800</ct:altimeterHP> |

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| --- | --- |
| **Sub-Element** | [METARType.]seaLevelPressuremb |
| Type | xs:int restricted |
| Restriction | Range [800 .. 1200] |
| Usage | [0..1] |
| Definition | Atmospheric pressure at sea level in millibar |
| Comments | 1 mb = 1 hPa |
| Schema  Component | <xs:element name="seaLevelPressuremb" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:minInclusive value="800"/>  <xs:maxInclusive value="1200"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:seaLevelPressuremb>800</ct:seaLevelPressuremb> |

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| --- | --- |
| **Sub-Element** | [METARType.]weatherPhenomenaReport |
| Type | xs:complexType |
| Usage | [0..1] |
| Definition |  |
| Comments |  |
| Sub-elements | * qualifier [0..1] of type ct:WeatherQualifierType * descriptor [0..1] of type ct:WeatherDescriptorType * precipitation [0..1] of type ct:WeatherPrecipitationType * obscuration [0..1] of type ct:WeatherObscurationType * additional [0..1] of type ct:WeatherAddlPhenomType |
| Schema  Component | <xs:element name="seaLevelPressuremb" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:int">  <xs:minInclusive value="800"/>  <xs:maxInclusive value="1200"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:weatherPhenomenaReport>  <ct:qualifier>Light</ct:qualifier>  <ct:descriptor>Showers</ct:descriptor>  <ct:precipitation>Drizzle</ct:precipitation>  <ct:obscuration>Other</ct:obscuration>  <ct:additional>Dust Whirls</ct:additional>  </ct:weatherPhenomenaReport> |

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| --- | --- |
| **Sub-Element** | [METARType.]precip1HrIn |
| Type | xs:float restricted |
| Restriction | Pattern "[0-9][0-9].[0-9][0-9]" |
| Usage | [0..1] |
| Definition | Amount of rain fall in 1 h, in inches |
| Comments |  |
| Schema  Component | <xs:element name="precip1HrIn" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:float">  <xs:pattern value="[0-9][0-9].[0-9][0-9]"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:precip1HrIn>00.01</ct:precip1HrIn> |

|  |  |
| --- | --- |
| **Sub-Element** | [METARType.]precip3HrIn |
| Type | xs:float restricted |
| Restriction | Pattern "[0-9][0-9].[0-9][0-9]" |
| Usage | [0..1] |
| Definition | Amount of rain fall in 3 h, in inches |
| Comments |  |
| Schema  Component | <xs:element name="precip3HrIn" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:float">  <xs:pattern value="[0-9][0-9].[0-9][0-9]"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:precip3HrIn>01.00</ct:precip3HrIn> |

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| --- | --- |
| **Sub-Element** | [METARType.]precip6HrIn |
| Type | xs:float restricted |
| Restriction | Pattern "[0-9][0-9].[0-9][0-9]" |
| Usage | [0..1] |
| Definition | Amount of rain fall in 6 h, in inches |
| Comments |  |
| Schema  Component | <xs:element name="precip6HrIn" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:float">  <xs:pattern value="[0-9][0-9].[0-9][0-9]"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:precip6HrIn>01.23</ct:precip6HrIn> |

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| --- | --- |
| **Sub-Element** | [METARType.]precip24HrIn |
| Type | xs:float restricted |
| Restriction | Pattern "[0-9][0-9].[0-9][0-9]" |
| Usage | [0..1] |
| Definition | Amount of rain fall in 24 h, in inches |
| Comments |  |
| Schema  Component | <xs:element name="precip24HrIn" minOccurs="0">  <xs:simpleType>  <xs:restriction base="xs:float">  <xs:pattern value="[0-9][0-9].[0-9][0-9]"/>  </xs:restriction>  </xs:simpleType>  </xs:element> |
| Used In | METARType |
| Examples | <ct:precip24HrIn>02.25</ct:precip24HrIn> |

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| --- | --- |
| **Type** | **WeatherInfoType** |
| BaseType | xs:complexType |
| Usage | Use wherever weather info is needed in a specification. |
| Definition | A container to transmit predefined weather info with free format remarks and concerns |
| Comments | 1. METAR string: raw METAR data, “the most popular format in the world for the transmission of weather data. It is highly standardized through [International Civil Aviation Organization](http://en.wikipedia.org/wiki/International_Civil_Aviation_Organization) (ICAO), which allows it to be understood throughout most of the world” [Wikipedia] 2. METAR readings: a more verbose formatted set of weather data |
| Sub-elements | * METARString [0..1] of type xs:string * METARReadings [0..1] of type ct:METARType * weatherRemarks [0..1] of type xs:string * weatherConcerns [0..1] of type xs:string |
| Schema  Component | <xs:complexType name="WeatherInfoType">  <xs:sequence>  <xs:element name="METARString" type="xs:string" minOccurs="0"/>  <xs:element name="METARReadings" type="ct:METARType" minOccurs="0"/>  <xs:element name="weatherRemarks" type="xs:string" minOccurs="0"/>  <xs:element name="weatherConcerns" type="xs:string" minOccurs="0"/>  </xs:sequence>  </xs:complexType> |
| Used In | Top level type |
| Examples | <ct:weatherInfo xsi:schemaLocation="urn:oasis:names:tc:emergency:edxl:ct:1.0 EDXL\_Common\_Types\_wd02\_dpm.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0">  <ct:METARString>KEYF 222355Z AUTO 00000KT 4SM BR 17/17 A3022 RMK AO2 T01700170</ct:METARString>  <ct:METARReadings>  <ct:stationID>KEYF</ct:stationID>  <ct:observationTime>2011-04-23T01:41:00+00:00</ct:observationTime>  <ct:tempC>37.2</ct:tempC>  <ct:dewpointC>10.0</ct:dewpointC>  <ct:windDirDegrees>32.3</ct:windDirDegrees>  <ct:windSpeedkt>20</ct:windSpeedkt>  <ct:windGustkt>50</ct:windGustkt>  <ct:visibilityStatuteMI>1.0</ct:visibilityStatuteMI>  <ct:altimeterHP>800</ct:altimeterHP>  <ct:seaLevelPressuremb>800</ct:seaLevelPressuremb>  <ct:weatherPhenomenaReport>  <ct:qualifier>Light</ct:qualifier>  <ct:descriptor>Showers</ct:descriptor>  <ct:precipitation>Drizzle</ct:precipitation>  <ct:obscuration>Other</ct:obscuration>  <ct:additional>Dust Whirls</ct:additional>  </ct:weatherPhenomenaReport>  <ct:skyCondition>Overcast</ct:skyCondition>  <ct:precip1HrIn>00.01</ct:precip1HrIn>  <ct:precip3HrIn>01.00</ct:precip3HrIn>  <ct:precip6HrIn>01.23</ct:precip6HrIn>  <ct:precip24HrIn>02.25</ct:precip24HrIn>  </ct:METARReadings>  <ct:weatherRemarks>This is weather</ct:weatherRemarks>  <ct:weatherConcerns>  I am concerned it may change, and that scares me...  </ct:weatherConcerns>  </ct:weatherInfo> |

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| --- | --- |
| **Type** | **OrganizationInformationType** |
| BaseType | Extends xpil:OrganisationDetailsType |
| Usage | Use wherever a specification needs to specify information about an organization. |
| Definition | The container type for organization information elements. The OrganizationInformationType includes at least one xnl:OrganisationName and optionally Addresses, ContactNumbers, ElectronicAddressIdentifiers and OrganisationInfo. See the OASIS EM CIQ Profile for details. |
| Comments | 1. Note that some elements use the American spelling “Organization” and some the English spelling “Organisation”. |
| Schema  Component | <xs:complexType name="OrganizationInformationType">  <xs:complexContent>  <xs:extension base="xpil:OrganisationDetailsType"/>  </xs:complexContent>  </xs:complexType> |
| Used In | Top level type |
| Examples | <anOrganizationInformation>  <xnl:OrganisationName>  <xnl:NameElement>Corporation XYZ</xnl:NameElement>  </xnl:OrganisationName>  </anOrganizationInformation> |

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| --- | --- |
| **Type** | **PersonDetailsType** |
| Type | xpil:PersonDetailsType |
| Usage | Used in the PersonTimePairType. |
| Definition | A container for defining the unique characteristics of a person only.  PersonDetailsType is an extension of xpil:PersonDetailsType which is defined in the OASIS EM TC CIQ profile xpil schema to include at least one PersonName, and optionally one Addresses, ContactNumbers, ElectronicAddressIdentifiers and Identifers. For more information, see the OASIS EM TC CIQ profile. |
| Comments | 1. See the EM-TC CIQ Profile |
| Schema  Component | <xs:complexType name="PersonDetailsType">  <xs:complexContent>  <xs:extension base="xpil:PersonDetailsType"/>  </xs:complexContent>  </xs:complexType> |
| Used In | PersonTimePairType |
| Examples | <aPersonDetails>  <ct:personDetails>  <xnl:PersonName>  <xnl:NameElement>Mary Smith</xnl:NameElement>  </xnl:PersonName>  </ct:personDetails>  </aPersonDetails> |

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| **Type** | **EDXLGeoPoliticalLocationType** |
| BaseType | xs:complexType |
| Restriction | Choice. |
| Usage | Use wherever a specification needs a geopolitical location described as address or by geo-code. |
| Definition | A container for defining Geo-Political Locations. |
| Comments |  |
| Schema  Component | <xs:complexType name="EDXLGeoPoliticalLocationType">  <xs:choice>  <xs:element name="address" type="xal:AddressType"/>  <xs:element name="geoCode" type="ct:ValueListType"/>  </xs:choice>  </xs:complexType> |
| Used In | Top level type |
| Examples |  |

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| --- | --- |
| **Type** | **EDXLLocationType** |
| BaseType | xs:complexType |
| Restriction | Choice. |
| Usage | Use wherever a specification needs a designation of a location. |
| Definition | A Container for describing both Geo-Political and Geographic Locations. |
| Comments |  |
| Schema  Component | <xs:complexType name="EDXLLocationType">  <xs:choice>  <xs:element name="EDXLGeoLocation"  type="edxl-gsf:EDXLGeoLocationType"/>  <xs:element name="EDXLGeoPoliticalLocation"  type="ct:EDXLGeoPoliticalLocationType"/>  </xs:choice>  </xs:complexType> |
| Used In | Top level type |
| Examples |  |

### EDXL Common Top Level Elements

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| --- | --- |
| **Element** | **valueListURI** |
| Type | ct:ValueListURIType |
| Usage | Used to denote the URI of a ValueListType and related types |
| Definition | A URI referencing an externally-managed list of values. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueListType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a ValueListURI providing a unique identifier for the external “list” and then followed by a value or values from that list. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. |
| Schema  Component | <xs:element name="valueListURI" type="ValueListURIType"/> |
| Used In | ValueListType  ValueKeyType  ValueKeyStringPairType  ValueKeyIntPairType |
| Examples | <ct:valueListURI><http://example.com/mylist></ct:valueListURI>  <ct:valueListURI>  urn:oasis:names:tc:emergency:edxl:de:2.0:Defaults:DistributionType  </ct:valueListURI> |

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| --- | --- |
| **Element** | value |
| Type | ct:ValueType |
| Usage | Used to denote the value(s) of a ValueListType and related types |
| Definition | A string value from an externally-managed list of values referenced by a ValueListURI. |
| Comments | 1. A lesson learned from early EDXL specification development was the need to support lists of values that may vary depending on the jurisdiction or community. The ValueListType and related structures are based on the concept that the “list” of values can be maintained externally and referenced in the EDXL standards. The reference is handled by structures which include a ValueListURI providing a unique identifier for the external “list” and then followed by a value or values from that “list”. The reason “list” is quoted is because the external structure may be an ontology or other structure adopted by the jurisdiction or community rather than just a simple list. |
| Schema  Component | <xs:element name="value" type="ValueType"/> |
| Used In | ValueListType  ValueKeyType  ValueKeyStringPairType  ValueKeyIntPairType |
| Examples | <ct:value>SomeValue</ct:value> |

# Conformance

The last numbered section in the specification must be the Conformance section. Conformance Statements/Clauses go here.

TBD

1. Acknowledgements

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Participants:

Don McGarry, MITRE Corp., Member

Jeff Waters, DoD, Member

Rex Brooks, Individual, Member

Werner Joerg, Individual, Member

1. Non-Normative Text
2. Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Editor** | **Changes Made** |
| WD01 | 03/02/2011 | Jeff Waters | Initial Setup |
| WD02 | 04/21/2011 | Werner Joerg | Adaptation to new schema; ready for TC review |
| WD03 | 05/02/2011 | Werner Joerg | Expanded WeatherInfo; ready for TC review |
|  | 05/10/2011 | Werner Joerg | Fixed link for [WGS 84] reference |
| WD04 | 11/15/2011 | Werner Joerg | Added RemarksType, EstimateType, EDXLGeoPoliticalLocationType and EDXLLocationType; fixed statements in 2.1 |
| WD05 | 07/01/2014 07/09/2014 07/23/2014 | Werner Joerg | Update for compliance with EDXL Naming and Capitalization Guidelines (EM-TC 12/18/2012) |
| WD06 | 12/31/14 | Werner Joerg | Updated formatting of references |
| WD07 | 6/12/2018 | Rex Brooks | Updated Imported Schema, Added FreeTextType, AlternateTextType and LimitedStringType |