
Emergency Data Exchange Language (EDXL) Hospital AVailability Exchange (HAVE) Version 2.0

Committee Specification Draft 02

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OASIS Emergency Management TC

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Additional artifacts:

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

- XML schemas: edxl-have-v2.0-csd01.xsd
- Data Dictionary in PDF and HTML formats.

Related work:

This specification replaces or supersedes:

- *Emergency Data Exchange Language (EDXL) Hospital AVailability Exchange (HAVE) Version 1.0.* 22 December 2009. OASIS Standard Incorporating Approved Errata.
<http://docs.oasis-open.org/emergency/edxl-have/v1.0/errata/edxl-have-v1.0-os-errata-os.html>

This specification is related to:

- *Emergency Data Exchange Language (EDXL) Distribution Element v1.0*, http://docs.oasis-open.org/emergency/edxl-de/v1.0/EDXL-DE_Spec_v1.0.pdf
- *Emergency Data Exchange Language (EDXL) Resource Messaging v1.0*, <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-os.html>
- *Emergency Data Exchange Language Common Types v1.0*, <http://docs.oasis-open.org/emergency/edxl-ct/v1.0/edxl-ct-v1.0.html>
- *Emergency Data Exchange Language Customer Information Quality v1.0*, <http://docs.oasis-open.org/emergency/edxl-ciq/v1.0/edxl-ciq-v1.0.html>

Declared XML namespaces:

- urn:oasis:names:tc:emergency:edxl:have:2.0

Abstract:

EDXL-HAVE (HAVE) is an XML messaging standard primarily for exchange of information related to health facilities in the context of emergency management. HAVE supports sharing information about facility services, bed counts, operations, capacities, and resource needs so first responders, emergency managers, coordinating organizations, hospitals, care facilities, and the health community can provide each other with a coherent view of the health system.

Status:

This [Working Draft](#) (WD) has been produced by one or more TC Members; it has not yet been voted on by the TC or [approved](#) as a Committee Draft (Committee Specification Draft or a Committee Note Draft). The OASIS document [Approval Process](#) begins officially with a TC vote to approve a WD as a Committee Draft. A TC may approve a Working Draft, revise it, and re-approve it any number of times as a Committee Draft.

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1 Introduction

[All text is normative unless otherwise labeled]

1.1 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 **Error! Reference source not found..**

1.2 Normative References

| | |
|----------------|--|
| [CAP-1.2] | <i>Common Alerting Protocol Version 1.2.</i> 01 July 2010. OASIS Standard. http://docs.oasis-open.org/emergency/cap/v1.2/CAP-v1.2-os.html . |
| [DATETIME] | P. Biron and A. Malhotra, <i>XML Schema Part 2: Datatypes Second Edition.</i> 28 October 2004. W3C REC-xmlschema-2., Sec 3.2.7, dateType. http://www.w3.org/TR/xmlschema-2 |
| [EDXL-CT] | Joerg, W. Committee Specification Draft Emergency Data Exchange Language Common Types. November 2011. OASIS. http://docs.oasis-open.org/emergency/edxl-ct/v1.0/csd01/ |
| [EDXL-DE] | EDXL Distribution Element (DE) Standard v1.0. March 2006. OASIS. http://www.oasis-open.org/specs/index.php#edxlde-v1.0 |
| [EDXL-GSF] | Joerg, W. Committee Specification Draft Emergency Data Exchange Language GML Simple Features. September 2011. OASIS. http://docs.oasis-open.org/emergency/edxl-gsf/v1.0/csd01/ |
| [NAMESPACES] | T. Bray et al, Namespaces in XML 1.0 (Second Edition). January 1999. W3C REC-xml-names-19990114. http://www.w3.org/TR/xml-names/ |
| [OASIS CIQ] | <i>Customer Information Quality (CIQ) Specifications Version 3.0, Name (xNL), Address (xAL), and Party (xPIL).</i> June 15, 2007. OASIS. http://docs.oasis-open.org/ciq/v3.0/specs/ |
| [OGC 07-36r1] | Geography Markup Language (GML) Implementation Specification Version 3.2.1. 2007. Open Geospatial Consortium. http://portal.opengeospatial.org/files/?artifact_id=20509 |
| [OGC Schemas] | GML 3.2.1 schemas. 2007. Open Geospatial Consortium. http://schemas.opengis.net/gml/3.2.1/ |
| [OGC 10-100r3] | Geography Markup Language (GML) simple features profile (with Corrigendum) (2.0). 2010. http://portal.opengeospatial.org/files/?artifact_id=42729 |
| [OGC CRS] | <i>Topic 2 - Spatial Referencing by Coordinates (Topic 2) (CRS Abstract Specification), Version 3.</i> 2004. Open Geospatial Consortium,. https://portal.opengeospatial.org/files/?artifact_id=6716 |
| [RFC2119] | S. Bradner, <i>Key words for use in RFCs to Indicate Requirement Levels.</i> March 1997. IETF RFC 2119. http://www.ietf.org/rfc/rfc2119.txt |
| [RFC3066] | H. Alvestrand, <i>Tags for the Identification of Languages.</i> January 2001. IETF RFC 3066. http://www.ietf.org/rfc/rfc3066.txt |
| [WGS 84] | <i>Department of Defense World Geodetic System.</i> 1984. National Geospatial Intelligence Agency. http://earth-info.nga.mil/GandG/wgs84/index.html |

| | |
|------------------|--|
| [XML 1.0] | T. Bray, <i>Extensible Markup Language (XML) 1.0 (Fourth Edition)</i> . February 2004. W3C REC-XML-20040204. http://www.w3.org/TR/REC-xml/ |
|------------------|--|

1.3 Non-Normative References

| | |
|-----------------------|--|
| [AHIC-BIODATA] | <i>BioSurveillance Data Elements</i> . American Health Information Community (AHIC), BioSurveillance Data Working Group. http://www.hhs.gov/healthit/ahic/bio_main.html |
| [EDXL-EXT] | EDXL Extension, OASIS. https://tools.oasis-open.org/version-control/browse/wsxn/emergency/HAVE/rim/edxl-ext-v1.0.xsd |
| [GJXDM] | <i>Global Justice XML Data Model (GJXDM) Data Dictionary</i> . Global, Office of Justice Programs. http://it.ojp.gov/topic.jsp?topic_id=43 |
| [GML-BESTPRAC] | <i>Best Practices: A GML Profile for use in OASIS EM Standards - EDXL-RM, EDXL-DE, HAVE, and CAP DRAFT</i> . Open Geospatial Consortium. http://www.oasis-open.org/apps/org/workgroup/emergency/download.php/20785/Best%20Practices%20-%20a%20GML%20Profile.doc |
| [HAVBED-DATA] | <i>Hospital Bed Availability (HAVBED) Project – Definitions and Data Elements: AHRQ Releases Standardized Hospital Bed Definitions</i> . Agency for Healthcare Research and Quality (AHRQ): http://www.ahrq.gov/research/havbed/definitions.htm |
| [HAVBED2-REP] | <i>HAVBED2 Hospital Available Beds for Emergencies and Disasters. A Sustainable Bed Availability Reporting System</i> . Final report. AHRQ Publication No. 09-0058-EF. April 2009. AHRQ. http://archive.ahrq.gov/prep/havbed2/havbed2.pdf |
| [HAVE-REQSUP] | <i>EDXL HAVE Requirements Supplement. January 2006</i> . OASIS. http://www.oasis-open.org/committees/download.php/16400/ |
| [HAVE-SRS] | <i>EDXL HAVE Standard Requirements Specification. January 2006</i> . OASIS. http://www.oasis-open.org/committees/download.php/16399/ |
| [HL7] | Health Level Seven International. - http://www.hl7.org/ . |
| [RM-DATAREQ] | <i>EDXL Resource Messaging (RM) Draft Requirements Specification</i> . OASIS. http://www.oasis-open.org/committees/download.php/14310/ |
| [VHHA-TERM] | <i>Statewide Hospital Status Information System Terminology and Data Collection Elements</i> . Virginia Hospital & Healthcare Association (VHHA). http://www.oasis-open.org/committees/download.php/18019 |

1.4 Purpose

The ongoing goal of the Emergency Data eXchange Language (EDXL) project is to facilitate emergency 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. EDXL accomplishes this goal by focusing on the standardization of specific messages (messaging interfaces) to facilitate emergency communication and coordination particularly when more than one profession or governmental jurisdiction is involved.

The current roster of published EDXL Standards includes:

- The Common Alerting Protocol v1.2 specification (EDXL-CAP), with various dedicated profiles

- The Distribution Element specification v2.0 (EDXL-DE)
- The Hospital AVailability Exchange specification v1.0 (EDXL-HAVE)
- The Resource Messaging specification v1.0 (EDXL-RM)
- The Situation Reporting specification v1.0 (EDXL-SitRep)

The primary purpose of EDXL-HAVE is to provide an XML-based reporting format that allows information to be shared about a set of health facilities including the communication of the status of a health facility, its services, and its resources. These include bed capacity and availability, emergency department status, staffing levels, available service coverage, and the status of a health facilities operations and resources.

The primary audience for EDXL-HAVE is the broad community that interacts with health facilities and it is intended to be used as a tool to automate information flow in and out of the health network. It is not intended to be a tool used for internal administration of health facilities as other standards organizations (e.g. Health System Level Seven International – www.hl7.org) already handle this domain.

1.5 History

In a disaster or emergency situation, there is a need for hospitals to be able to communicate with each other, and with other members of the emergency response community. The ability to exchange data in regard to hospitals' bed availability, status, services, and capacity enables both hospitals and other emergency agencies to respond to emergencies and disaster situations with greater efficiency and speed. In particular, it will allow emergency dispatchers and managers to make sound logistics decisions - where to route victims, which hospitals have the ability to provide the needed service. Many hospitals have expressed the need for, and indeed are currently using, commercial or self-developed information technology that allows them to publish this information to other hospitals in a region, as well as EOCs, 9-1-1 centers, and EMS responders via a Web-based tool.

The Hospital Availability Exchange standard was created to make sharing information about the state of hospitals for day-to-day and crisis use. Initially it was focused purely on hospitals but it has been extended to handle sharing information about the broader health network, including long-term care facilities, urgent care clinics, and temporary aid centres.

HAVE 1.0 was released on 22DEC2009. Since the release of HAVE 1.0 there have been multiple operational uses of HAVE, including after the 2010 Haiti Earthquake. In many of the operational uses there were modified schema used to add services that were not in HAVE 1.0 and to convey other aspects of the data and to handle the sharing of information about non-hospital facilities (e.g. clinics, temporary locations). The use of the HAVE 1.0 standard was encouraging but the shortfalls needed to be addressed. To that end, in 2010 the OASIS EM-TC voted to re-open the HAVE standard with the goal of creating a HAVE 2.0 standard.

1.6 Structure of the EDXL Hospital Availability Exchange Specification

The EDXL-HAVE 2.0 standard document structure is defined using successively more detailed or constrained artifacts in the form of textual descriptions, diagrams, figures, tables and Appendices. The EDXL-HAVE XML Schema is provided separately. The overall structure of the EDXL-HAVE report is first represented in an Element Reference Model (ERM). The ERM is the foundation from which individual constraint schemas (individual situation report types) are defined.

The structure of the EDXL-HAVE standard is defined in the following sections:

- Section 2 summarizes the design principles of the standard and shows several usage scenarios;
- Section 3 provides an informal overview of EDXL-HAVE. In particular:
 - Section 3.1 presents an extensive definition of a HAVE report;
 - Section 3.2 describes essential supporting elements in the EDXL Common Types collection, including the use of EDXL Extensions;
 - Section 3.3 presents the Element Reference Model (ERM) which shows the abstract structural relationships of the main components of EDXL-HAVE;

- Section 3.4 discusses how the distribution requirements for EDXL-HAVE messages may be met through several mechanisms, including EDXL-Distribution Element (DE) and as general data payloads;
- Section 3.5 presents a summary of the elements that make up a HAVE message.
- Section 4 The Data Dictionary formally defines each element contained in the EDXL-HAVE standard message.
- Section 5 provides conformance information.

These sections together define the message structure, message element definitions, optionality and cardinality.

2 Design Principles & Concepts (non-normative)

Below are some of the guiding principles behind the development of EDXL-HAVE:

- Support day-to-day and crisis use of the standard.
- Facilitate sharing of information amongst the general public, all levels of government, first nation/tribal, international, and non-governmental organizations.
- Provide a simple information report that allows first responders, emergency managers, community leaders, politicians, and other stakeholders to get a quick glimpse of the state of the health network in a community.
- Provide a non-invasive way for a health facility to keep the communities that they serve abreast of developments that impact their ability to provide care.
- Be respectful of the boundaries of internal health facility information and the information that is relevant externally.
- Separation of EDXL-HAVE reports from being tied to a particular method of delivery.
- Use and reuse of data, content, and models developed by other initiatives that align with EDXL-HAVE.
- Provide a baseline set of services, operations, and resources to allow health facilities to start using HAVE quickly, while allowing for controlled extension where warranted.

2.1 Requirements for Design

The OASIS EM-TC tasked the EDXL-HAVE Sub-committee to review HAVE 1.0 and propose Errata, Minor, and Major versions. The initial tasking provided the following guidance:

EM EDXL-HAVE Sub-committee (EMHAVE)

Scope of Work

After initial implementation of EDXL-HAVE by various parties, comments have been generated that identify potential improvement and revisions to the EDXL-HAVE standard. The EDXL-HAVE Sub-committee (EMHAVE) will request and examine existing comments regarding the EDXL-HAVE 1.0 standard with the aim of producing updates to the EDXL-HAVE standard including Errata, Minor or Major versions.

Purpose

The subcommittee will research, analyze, recommend, and organize currently available information on implementation challenges or comments regarding the EDXL-HAVE standard version 1.0.

Deliverables

1. The EMHAVE subcommittee will produce recommendations for additional errata, minor revisions, or major revisions to the EDXL-HAVE standard.
2. Production of applicable committee draft documents based on the findings of #1
3. Schemas, examples, and additional documentation to support #2

Schedule

Q2 - '10 – Request for comments for EDXL-HAVE. Analysis of comments to produce Deliverable #1

Q4 - '10 – Production of deliverables #2 & #3

Figure 1 - EM EDXL-HAVE SC Scope

2.2 Example Usage Scenarios

The following scenarios illustrate how EDXL-HAVE 2.0 can be used in the field.

2.2.1 Day-to-Day – Dialysis Patient:

On a routine pickup a social worker picks up an elderly patient that needs routine maintenance. Normally the dialysis is performed at the closest facility, but the social worker knows that the small facility's dialysis unit is not operating due to an equipment failure. A quick query to view the local health facilities presents several within a 20-minute drive, so the social worker places a call and coordinates with one of the alternate facilities.

2.2.2 First Responder – Responding with Critical Care

As the result of a multi-unit residential fire, ambulances are dispatched and the Incident Commander indicates that there are 2 critical and 3 serious burn victims. The nearest hospital can only take in 2 burn victims normally, but the current state of the burn unit is not known. By examining the state of the local facilities, officials can coordinate which victims are to be taken to the surrounding health facilities.

2.2.3 Mass-Scale Vaccination Clinics

Under pandemic conditions a community is implementing a vaccination program with the hospitals, urgent care clinics, private clinics, and temporary clinics providing vaccinations. The public, key officials, and the media can have immediate visibility into the wait times and service availability at each of the vaccination sites. EDXL-HAVE provides the ability to display service availability for each facility, referenced on a map, by colour code and to provide an indication of wait times if they are available.

2.2.4 Disaster Response:

Following a major earthquake in the developing world, NGOs, various government responders, and local officials (and non-officials) establish temporary health-care facilities to meet the urgent and non-urgent health needs of those injured or killed by the earthquake and ensuing issues. Coordination of multiple dimensions are critical: what services are available, what is the capacity of the facilities, what resources they are missing or can share, where are the facilities located, who are the official points of contacts, what agency is running the facility, what are the hours operation, etc.

As the event unfolds there is a Cholera outbreak due to damaged sanitation. There is a clear need identified to track 2 particular services (e.g. Cholera Vaccination and Cholera Treatment) that were too specific to be part of the default HAVE 2.0 services taxonomy. After a meeting of the coordinating agencies, the data being shared is extended to include Cholera Vaccination and Cholera Treatment services, including the standard metrics (capacity, colour code for status, etc.)

3 EDXL HAVE

Section 3 of this Standard is **normative unless otherwise stated**. If any differences are found between any XML schema and its associated model, diagram, table or other artifact or text, then the XML schema shall always take precedence and the other artifact(s) must be changed to match the XML schema.

Note: Please report any such errors to OASIS.

3.1 HAVE Report Definition (non-normative)

The HAVE Report is a single EDXL message that is intended to provide sharing of the services, operations, and capacities of health facilities. Health facilities in HAVE include hospitals, urgent care clinics, temporary facilities, and other facilities that may provide health services for a community.

Typical actors:

- Senders – hospital administrators, hospital networks, health providers, NGOs, clinic administrators, and emergency medical services, etc.
- Recipients – first responders, dispatch operators, emergency managers, automated systems, etc.

3.2 Supporting Elements (non-normative)

3.2.1 Common Types

Supporting Element Types borrow re-usable elements from the EDXL Common Types (ct:) that apply to and support multiple areas of the HAVE 2.0 reports, such as Location. For instance incidentLocation relies on ct:EDXLLocationType, which consists of either EDXLGeoLocation for geographical information or EDXLGeoPoliticalLocation for geopolitical information. EDXLGeoLocation is of type edxl-gsf:EDXLGeoLocationType and EDXLGeoPoliticalLocation is of type ct:EDXLGeoPoliticalLocationType. This latter type consists of either a GeoCode (of type ct:ValueListType) or an Address (of type edxl-ciq:xAL:AddressType).

The following elements are used in this specification and can be found at the locations cited in the normative references in Section 1.2 of this document.

| Supporting Element/Type | Defined In |
|---------------------------------|------------------------------|
| ct:EDXLDateType | EDXL-CT (Simple Types) |
| ct:EDXLStringType | EDXL-CT (Simple Types) |
| ct:ValueListURIType | EDXL-CT (Simple Types) |
| ct:ValueType | EDXL-CT (Simple Types) |
| ct:ValueListType | EDXL-CT (Complex Types) |
| ct:ValueKeyType | EDXL-CT (Complex Types) |
| ct:EDXLGeoPoliticalLocationType | EDXL-CT (Complex Types) |
| ct:EDXLLocationType | EDXL-CT (Complex Types) |
| gsf:EDXLGeoLocationType | EDXL-GSF |
| ct:ValueListURI | EDXL-CT (Top Level Elements) |

| Supporting Element/Type | Defined In |
|-------------------------|------------|
| xal:addressType | EDXL-CIQ |
| | |

Some elements of the common type “ct:EDXLStringType” are denoted as [token] in the accompanying XML per the following reference:

[token] N. Freed, XML Schema Part 2: Datatypes Second Edition, <http://www.w3.org/TR/xmlschema-2/#token>, W3C REC-xmlschema-2, October 2004.

The definition for token as found in the OASIS common types is: “The value space of **token** is the set of strings that do not contain the carriage return (#xD), line feed (#xA) nor tab (#x9) characters, that have no leading or trailing spaces (#x20) and that have no internal sequences of two or more spaces.”

The implication is that the XML parser will change string entries to remove carriage returns, line feeds, tab characters, leading or trailing spaces, and internal sequences of two or more spaces.

3.2.2 Selecting Values from Lists

The ValueList and ValueKey types are part of the EDXL Common Types collection. They allow standards adopters to use topic specific lists of values for elements such as externalCode alternateCodeValue, etc.. Both types have identical structure, but ValueList allows for selection of multiple values [1..*] in the list, whereas ValueKey allows for selection of only one [1..1] value in the list.

When using a ValueList / ValueKey structure the user can specify a user-defined list by URI (either using the “urn:...” format or the more familiar “http://...” format) and then include user-defined values from that list. This structure has several advantages: (a) it provides flexibility for local communities to use community-defined terms and vocabulary; (b) it allows for the external maintenance of local or standardized lists; and (c) it avoids the problems inherent in attempting to constantly update hard-coded enumerations in a specification.

An existing vetted list should be referenced for defaults, but users could also reference their own value list

3.2.3 ValueKeyType

The schema for ValueKeyType is defined as

```
<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>
```

and its application to the XML description of an element *elementName* of type ct:ValueKeyType would be:

```
<elementName>
  <ct:ValueListURI>valueListURI</ct:ValueListURI>
  <ct:Value>value</ct:Value>
</elementName>
```

This example uses a published list of values and definitions and selects one specific entry to describe a resource need of a facility:

- *valueListURI* = <https://www.mediwish.org/give/medical-supplies/>
- *value* = Bandages

which stands for

```
<resourceKind>
  <ct:ValueListURI>https://www.mediwish.org/give/medical-supplies/</ct:ValueListURI>
  <ct:Value>Bandages</ct:Value>
</resourceKind>
```

Following the approach in ValueList, we'd point ValueListURI to some other list to make a different selection of eye colors available.

3.2.4 EDXL Extensions

HAVE 2.0 supports supplemental inclusion of community-defined sets of name/value pairs, referred to here as “Community Extensions” or simply “Extensions” for short. For example, the HAVE Status element contains a stability field, which indicates if the status is stable, improving, or deteriorating. The “Extension” concept would allow a sender to augment this information with a qualifier, such as “rapidly” or “slowing”, providing finer grain detail on the situation. The “Community Extensions” concept solves several major problems for improving information sharing and developing standards for the emergency management community. First, the nature of emergencies is that the unexpected will happen and emergency managers need flexibility to send whatever information is needed. Second, an emergency begins and often stays local, so local authorities and users need control to send the information they decide is important to address the current emergency. Third, communities need the opportunity to explore potential new standards. The parameter name/value extension mechanism, along with the registration and best practice guidance, provides an on-ramp for communities to determine what works well for them. The Community Extensions that are most successful can be incorporated formally into future standards.

Typical needs are:

1. Standard augmentation: community adds new information that is associated with the EDXL standard. Examples: adding HL7 translation information to the HAVE payload.
2. List augmentation: community adds new values (enumerations) to the default set of values in the standard. Example: adding community-specific information to the ServiceType element.

In HAVE 2.0, “Extensions” are used under the following elements:

- ServiceType
- ResourceInformationType
- OperationType
- OffloadInfoType
- TraumaCenterLevelType

The schema for Extension is defined as

```
<xs:element name="extension">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="community" type="xs:anyURI" />
      <xs:element name="id" type="xs:anyURI" />
      <xs:element name="parameter" type="ext:ParameterType"
maxOccurs="unbounded"/>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

and its application to the XML description of an extension would be:

```
<extension>
  <community>communityURI</community>
  <id>idURI</id>
  <parameter>
    <nameURI>nameURI</nameURI>
    <value>some value</value>
  </parameter>
</extension>
```

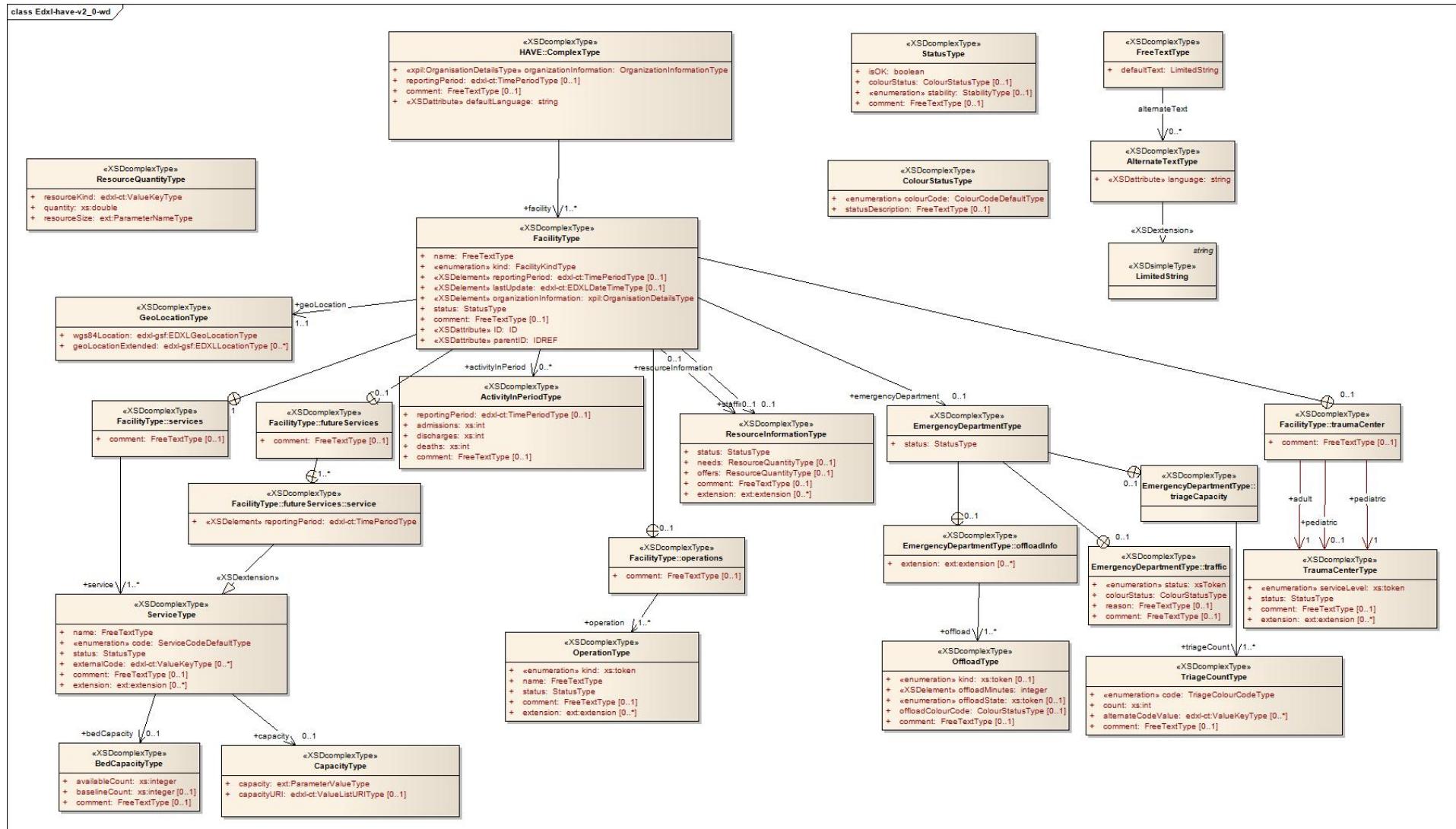
This example uses a qualify for status stability for a service:

- *community* = facility:service:status:refined
- *id* = extension:1
- *parameter-nameURI* = have:service:status
- *parameter-value* = Rapidly

which stands for

```
<extension>
  <community>facility:service:status:refined</community>
  <id>extension:1</id>
  <parameter>
    <nameURI>have:service:status</nameURI>
    <value>Rapidly</value>
  </parameter>
</extension>
```

3.3 Element Reference Model (non-normative)



3.4 Distribution of EDXL-HAVE (non-normative)

HAVE messages are intended to be payloads of various messaging and/or delivery systems. Messaging systems such as EDXL-DE can treat a HAVE message as a payload. Similarly, non-message-based systems (e.g. RESTful web service) can deliver a HAVE message just as easily. An individual facility may provide an up-to-date report via a web service. An aggregator could poll the facilities that are of interest for a particular reason, or in a Publish-Subscribe scenario, subscribe to the facilities of interest.

3.5 HAVE Elements

A HAVE message consists of an organization that uniquely identifies the organization that is responsible for the reporting facilities, a reporting period (**reportingPeriod** – *optional*) that identifies reporting period applicable for this HAVE report, and a group of elements (**facility** – *required*) that uniquely identifies and describes the facility's status including

- facility name and location,
- overall facility status, ..
- services, ..
- operations, ..
- resources, ..
- staffing, ..
- and emergency department.

These elements are detailed further in the Element Reference Model (Section 3.3) and in the Data Dictionary (Section 4).

4 Data Dictionary

Appendix A contains a computer-generated PDF that is generated directly from the XML Schema document.

5 Conformance

An XML 1.0 element is a conforming EDXL-HAVE-v2.0 Message if and only if:

- a) it meets the general requirements specified in Section 4;
- b) if its namespace name is "urn:oasis:names:tc:emergency:edxl:have:2.0", and the element is valid according to the schema located at <http://docs.oasis-open.org/emergency/edxl-have-v2.0/edxl-have-v2.0.xsd>
- c) if its namespace name is "urn:oasis:names:tc:emergency:edxl:have:2.0", then its content (which includes the content of each of its descendants) meets all the additional mandatory requirements provided in the specific subsection of Section 4 corresponding to the element's name.

Note: only messages that fully comply with the EDXL-HAVE 2.0 specification and that are complete and schematically valid may be referred to as a "EDXL-HAVE 2.0 Message".

Appendix A. Data Dictionary

The following PDF is generated from the formal EDXL-HAVE 2.0 Schema.

Schema documentation for edxl-have-v2.0-csd01.xsd

13 January 2015

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Resource hierarchy:

Legend: Import, Include, Redefine, Override, Cycle detected

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 edxl-gsf-base.xsd

 xlink.xsd

 xml.xsd

 edxl-ext-v1.0.xsd

 edxl-ct-v1.0-wd06.xsd

 edxl_xPIL.xsd

 CommonTypes.xsd

 edxl_xNL.xsd

 xNL-types.xsd

 CommonTypes.xsd

 edxl_xAL.xsd

 xAL-types.xsd

 CommonTypes.xsd

 xPIL-types.xsd

 edxl_xAL.xsd

 xAL-types.xsd

 CommonTypes.xsd

 edxl-gsf.v1.0.xsd

 edxl-gsf-base.xsd

 xlink.xsd

 xml.xsd

 edxl_xPIL.xsd

 CommonTypes.xsd

 edxl_xNL.xsd

 xNL-types.xsd

 CommonTypes.xsd

 edxl_xAL.xsd

 xAL-types.xsd

 CommonTypes.xsd

```

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edxl_xAL.xsd
xAL-types.xsd
CommonTypes.xsd
edxl-ct-v1.0-wd06.xsd
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CommonTypes.xsd
edxl_xNL.xsd
xNL-types.xsd
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xAL-types.xsd
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edxl_xAL.xsd
xAL-types.xsd
CommonTypes.xsd
edxl-gsf.v1.0.xsd
edxl-gsf-base.xsd
xlink.xsd
xml.xsd

```

Namespace: "urn:oasis:names:tc:emergency:edxl:have:2.0"

Schema(s)

Main schema edxl-have-v2.0-csd01.xsd

| | | | | | |
|-------------------------|---|-------------------------|-----------|-----------------------|-----------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | <p>Specification Name: EDXL Hospital AVailability Exchange (HAVE) 2.0 Description: Defines the XML schema for the EDXL HAVE message exchange Produced by: Emergency Management HAVE Subcommittee URL: http://docs.oasis-open.org Version: 2.0 WD Status: SC DRAFT Copyright: 2012-2015, OASIS, http://www.oasis-open.org Last Modified: 05JAN2015 Last Modified by: Darrell O'Donnell, P.Eng.</p> <p>Guiding Concepts/Principles: Schema Validation: should provide deep validation capabilities as opposed to being a basic schema where different groups make up extensions to the point where nothing is valid in between systems. Extensible: Key areas of the schema should support extensibility in a controlled manner. The use of managed taxonomies can allow a group to define a new set of services that are used in a network for example. Simple: Though the standard could support aggregation the provision of individual facility elements REVIEW: new elements ID and IDREF: References (IDREF) to unique elements (ID) should be used, especially where establishing of a hierarchy.</p> | | | | |
| Properties | <table border="1"> <tr> <td>attribute form default:</td> <td>qualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table> | attribute form default: | qualified | element form default: | qualified |
| attribute form default: | qualified | | | | |
| element form default: | qualified | | | | |

Element(s)

Element HAVE

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| Annotations | Top Level item for Hospital Availability Exchange (HAVE) message. THIS IS NOT A FINAL VERSION - THIS IS A BETA DOCUMENT AND THIS BETA NATURE NEEDS TO BE CONSIDERED. | | | | | | | | | | | | |
|-----------------|---|---|------|-----|--|-----------------|-----------|----------|--|--|--|---|--|
| Diagram | <pre> classDiagram class HAVE { @defaultLanguage : xs:string organizationInformation : OrganizationInformationType reportingPeriod : TimePeriodType facility : FacilityType * comment : FreeTextType } </pre> | | | | | | | | | | | | |
| Properties | content: complex | | | | | | | | | | | | |
| Model | organizationInformation , reportingPeriod{0,1} , facility+ , comment{0,1} | | | | | | | | | | | | |
| Children | comment, facility, organizationInformation, reportingPeriod | | | | | | | | | | | | |
| Instance | <pre> <HAVE defaultLanguage="" xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <organizationInformation>{1,1}</organizationInformation> <reportingPeriod>{0,1}</reportingPeriod> <facility ID="" parentID="">{1,unbounded}</facility> <comment>{0,1}</comment> </HAVE> </pre> | | | | | | | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>defaultLanguage</td> <td>xs:string</td> <td>required</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Language code that is used throughout the document. Code MUST comply with RFC3066. Free text within the document will be assumed to be in this defaultLanguage.</td> <td></td> </tr> </tbody> </table> | QName | Type | Use | | defaultLanguage | xs:string | required | | | | Language code that is used throughout the document. Code MUST comply with RFC3066. Free text within the document will be assumed to be in this defaultLanguage. | |
| QName | Type | Use | | | | | | | | | | | |
| defaultLanguage | xs:string | required | | | | | | | | | | | |
| | | Language code that is used throughout the document. Code MUST comply with RFC3066. Free text within the document will be assumed to be in this defaultLanguage. | | | | | | | | | | | |

Element HAVE / organizationInformation

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Information of the Organization that is responsible for the reporting of these facilities. |

| | |
|----------------|--|
| Diagram | <pre> classDiagram class organizationInformation { Type OrganizationInformationType "Information of the Organisation that is responsible for the reporting of these facilities." } class xplOrganisationDetailsType { Base Type xplOrganisationDetailsType "The container element for organization information elements." } organizationInformation --> xplOrganisationDetailsType : "1..*" xplOrganisationDetailsType < -- nOrganisationName xplOrganisationDetailsType < -- Addresses xplOrganisationDetailsType < -- ContactNumbers xplOrganisationDetailsType < -- ElectronicAddressIdentifiers xplOrganisationDetailsType < -- OrganisationInfo </pre> |
| Type | OrganizationInformationType |
| Type hierarchy | <ul style="list-style-type: none"> • OrganisationDetailsType • OrganizationInformationType |
| Properties | content: complex |
| Model | OrganisationName+, Addresses{0,1}, ContactNumbers{0,1}, ElectronicAddressIdentifiers{0,1}, OrganisationInfo{0,1} |
| Children | Addresses, ContactNumbers, ElectronicAddressIdentifiers, OrganisationInfo, OrganisationName |
| Instance | <pre> <organizationInformation xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ns0="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:xpl="urn:oasis:names:tc:emergency:edxl:have:2.0"> <ns0:OrganisationName OrganisationID="" OrganisationIDType="">{1,unbounded}</ns0:OrganisationName> <xpl:Addresses>{0,1}</xpl:Addresses> <xpl>ContactNumbers>{0,1}</xpl>ContactNumbers> <xpl:ElectronicAddressIdentifiers>{0,1}</xpl:ElectronicAddressIdentifiers> <xpl:organisationInfo CategoryType="" DataQualityType="" IndustryCode="" IndustryCodeType="" IndustryType="" Nationality=""> <xpl:OrganisationInfo> </xpl:OrganisationInfo> </organizationInformation> </pre> |

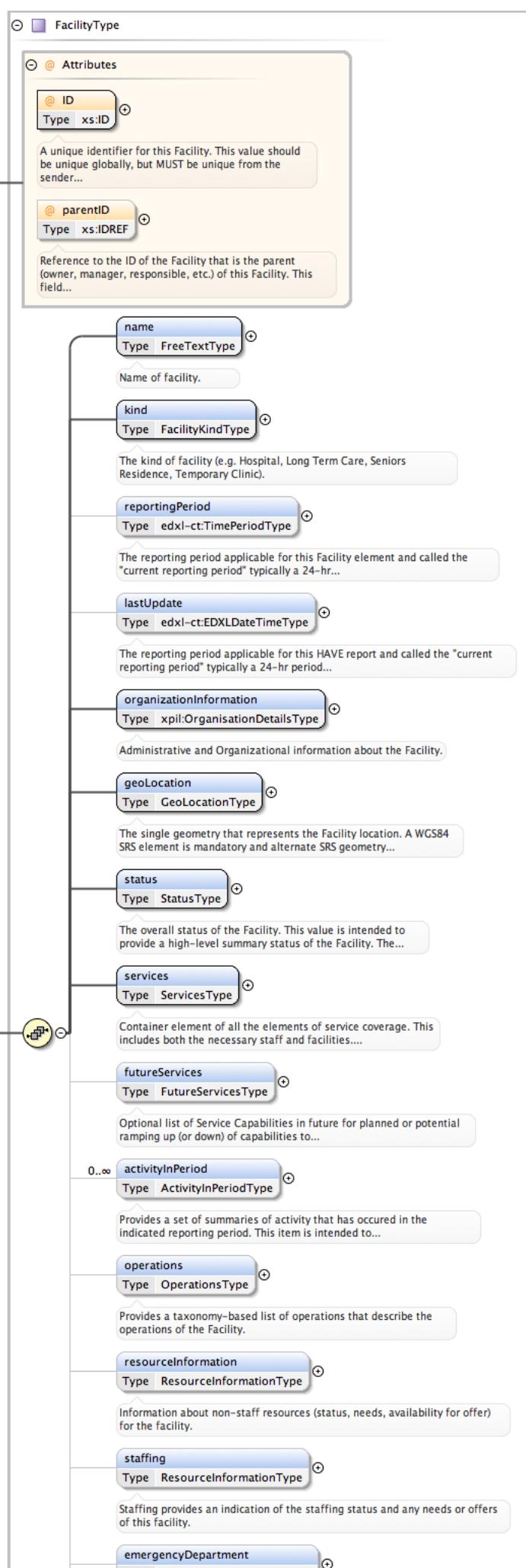
Element HAVE / reportingPeriod

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The reporting period applicable for the HAVE root element and called the "current reporting period" typically a 24-hr period but the duration may change for operational reasons. If blank the assumption is that the file is for "today" - local to the issuer. |
| Diagram | <pre> classDiagram class reportingPeriod { Type ctTimePeriodType "The reporting period applicable for the HAVE root element and called the 'current reporting period' typically a 24-hr..." } class ctTimePeriodType { "The container element for time period elements." } reportingPeriod --> fromDateTime reportingPeriod --> toDateTime </pre> |
| Type | ct:TimePeriodType |
| Properties | content: complex minOccurs: 0 |
| Model | ct:fromDateTime, ct:toDateTime |
| Children | ct:fromDateTime, ct:toDateTime |
| Instance | <pre> <reportingPeriod xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:fromDateTime>{1,1}</edxl-ct:fromDateTime> <edxl-ct:toDateTime>{1,1}</edxl-ct:toDateTime> </reportingPeriod> </pre> |

Element **HAVE / facility**

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | A list of facilities that comprise the detail of this HAVE message. |

Diagram



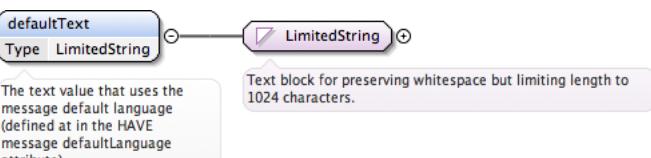
| Type | FacilityType | | | | | | | | | | | | | | | |
|-----------------|--|----------|------|-----|-----------|-------|----------|--|--|--|-----------------|----------|----------|--|--|--|
| Properties | <p>content: complex</p> <p>maxOccurs: unbounded</p> | | | | | | | | | | | | | | | |
| Model | name , kind , reportingPeriod{0,1} , lastUpdate{0,1} , organizationInformation , geoLocation , status , services , futureServices{0,1} , activityInPeriod* , operations{0,1} , resourceInformation{0,1} , staffing{0,1} , emergencyDepartment{0,1} , traumaCenter{0,1} , comment{0,1} | | | | | | | | | | | | | | | |
| Children | activityInPeriod, comment, emergencyDepartment, futureServices, geoLocation, kind, lastUpdate, name, operations, organizationInformation, reportingPeriod, resourceInformation, services, staffing, status, traumaCenter | | | | | | | | | | | | | | | |
| Instance | <pre><facility ID="" parentID="" xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <name>{1,1}</name> <kind>{1,1}</kind> <reportingPeriod>{0,1}</reportingPeriod> <lastUpdate>{0,1}</lastUpdate> <organizationInformation>{1,1}</organizationInformation> <geoLocation>{1,1}</geoLocation> <status>{1,1}</status> <services>{1,1}</services> <futureServices>{0,1}</futureServices> <activityInPeriod>{0,unbounded}</activityInPeriod> <operations>{0,1}</operations> <resourceInformation>{0,1}</resourceInformation> <staffing>{0,1}</staffing> <emergencyDepartment>{0,1}</emergencyDepartment> <traumaCenter>{0,1}</traumaCenter> <comment>{0,1}</comment> </facility></pre> | | | | | | | | | | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>ID</td> <td>xs:ID</td> <td>required</td> </tr> <tr> <td></td> <td>A unique identifier for this Facility. This value should be unique globally, but MUST be unique from the sender perspective.</td> <td></td> </tr> <tr> <td>parentID</td> <td>xs:IDREF</td> <td>optional</td> </tr> <tr> <td></td> <td>Reference to the ID of the Facility that is the parent (owner, manager, responsible, etc.) of this Facility. This field is optional and used to provide a hierarchy for formal facility organizations.</td> <td></td> </tr> </tbody> </table> | QName | Type | Use | ID | xs:ID | required | | A unique identifier for this Facility. This value should be unique globally, but MUST be unique from the sender perspective. | | parentID | xs:IDREF | optional | | Reference to the ID of the Facility that is the parent (owner, manager, responsible, etc.) of this Facility. This field is optional and used to provide a hierarchy for formal facility organizations. | |
| QName | Type | Use | | | | | | | | | | | | | | |
| ID | xs:ID | required | | | | | | | | | | | | | | |
| | A unique identifier for this Facility. This value should be unique globally, but MUST be unique from the sender perspective. | | | | | | | | | | | | | | | |
| parentID | xs:IDREF | optional | | | | | | | | | | | | | | |
| | Reference to the ID of the Facility that is the parent (owner, manager, responsible, etc.) of this Facility. This field is optional and used to provide a hierarchy for formal facility organizations. | | | | | | | | | | | | | | | |

Element FacilityType / name

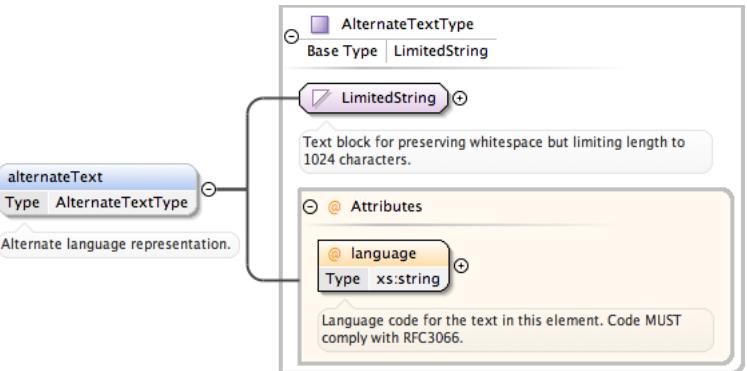
| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Name of facility. |
| Diagram | <pre> classDiagram class FreeTextType { name : FreeTextType defaultText : LimitedString alternateText : AlternateTextType } name --> defaultText name --> alternateText defaultText <--> alternateText </pre> <p>The diagram illustrates the structure of the FreeTextType element. It features a central box labeled "FreeTextType" containing an attribute named "name" (Type: FreeTextType). Two associations originate from "name": one to "defaultText" (Type: LimitedString) and another to "alternateText" (Type: AlternateTextType). A note indicates that "The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute)." is associated with "defaultText". Another note states that "Alternate language representation." is associated with "alternateText".</p> |
| Type | FreeTextType |
| Properties | content: complex |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre><name xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </name></pre> |

Element FreeTextType / defaultText

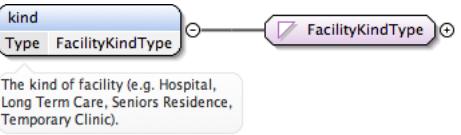
| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute). |

| | |
|------------|---|
| Diagram |  |
| Type | LimitedString |
| Properties | content: simple |
| Facets | whiteSpace preserve maxLength 1024 |

Element FreeTextType / alternateText

| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | |
|--|--|----------|------|-----|----------|-----------|----------|--|--|--|
| Annotations | Alternate language representation. | | | | | | | | | |
| Diagram |  | | | | | | | | | |
| Type | AlternateTextType | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:string <ul style="list-style-type: none"> • LimitedString • AlternateTextType | | | | | | | | | |
| Properties | content: complex minOccurs: 0 maxOccurs: unbounded | | | | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>language</td> <td>xs:string</td> <td>required</td> </tr> <tr> <td colspan="3">Language code for the text in this element. Code MUST comply with RFC3066.</td></tr> </tbody> </table> | QName | Type | Use | language | xs:string | required | Language code for the text in this element. Code MUST comply with RFC3066. | | |
| QName | Type | Use | | | | | | | | |
| language | xs:string | required | | | | | | | | |
| Language code for the text in this element. Code MUST comply with RFC3066. | | | | | | | | | | |

Element FacilityType / kind

| | |
|----------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The kind of facility (e.g. Hospital, Long Term Care, Seniors Residence, Temporary Clinic). |
| Diagram |  |
| Type | FacilityKindType |
| Type hierarchy | <ul style="list-style-type: none"> • xs:token <ul style="list-style-type: none"> • ct:EDXLStringType • FacilityKindType |
| Properties | content: simple |

| | | |
|--------|-------------|-------------------|
| Facets | minLength | 1 |
| | maxLength | 1023 |
| | enumeration | hospital |
| | enumeration | longTermCare |
| | enumeration | urgentCareClinic |
| | enumeration | temporaryFacility |
| | enumeration | other |

Element FacilityType / reportingPeriod

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The reporting period applicable for this Facility element and called the "current reporting period" typically a 24-hr period but the duration may change for operational reasons. If this value is not provided the HAVE message reporting period will be assumed. | | | | |
| Diagram | <pre> classDiagram class reportingPeriod { <<Type edxl-ct:TimePeriodType>> fromDateTime toDateTime } class edxl-ct:TimePeriodType reportingPeriod < -- edxl-ct:TimePeriodType </pre> <p>The reporting period applicable for this Facility element and called the "current reporting period" typically a 24-hr...</p> | | | | |
| Type | ct:TimePeriodType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | ct:fromDateTime , ct:toDateTime | | | | |
| Children | ct:fromDateTime, ct:toDateTime | | | | |
| Instance | <pre> <reportingPeriod xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl- cts="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:fromDateTime>{1,1}</edxl-ct:fromDateTime> <edxl-ct:toDateTime>{1,1}</edxl-ct:toDateTime> </reportingPeriod> </pre> | | | | |

Element FacilityType / lastUpdate

| | | | | | |
|-------------|---|----------|--------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The reporting period applicable for this HAVE report and called the "current reporting period" typically a 24-hr period but the duration may change for operational reasons. If blank the assumption is that the file is for "today" - local to the issuer. | | | | |
| Diagram | <pre> classDiagram class lastUpdate { <<Type edxl-ct:EDXLDateTimeType>> } class edxl-ct:EDXLDateTimeType lastUpdate < -- edxl-ct:EDXLDateTimeType </pre> <p>The reporting period applicable for this HAVE report and called the "current reporting period" typically a 24-hr period...</p> | | | | |
| Type | ct:EDXLDateTimeType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | simple | minOccurs: | 0 |
| content: | simple | | | | |
| minOccurs: | 0 | | | | |
| Facets | pattern \d\d\d\d-\d\d-\d\dT\d\d:\d\d:\d\d[-,+] \d\d:\d\d | | | | |

Element FacilityType / organizationInformation

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Administrative and Organizational information about the Facility. |

| | |
|------------|---|
| Diagram | <pre> classDiagram class xpil::OrganisationDetailsType { 1..∞ n:OrganisationName Addresses ContactNumbers ElectronicAddressIdentifiers OrganisationInfo } organizationInformation "Administrative and Organizational information about the Facility." --> xpil::OrganisationDetailsType note over xpil::OrganisationDetailsType: A container for defining the unique characteristics of an organisation only </pre> |
| Type | OrganisationDetailsType |
| Properties | content: complex |
| Model | OrganisationName+, Addresses{0,1}, ContactNumbers{0,1}, ElectronicAddressIdentifiers{0,1}, OrganisationInfo{0,1} |
| Children | Addresses, ContactNumbers, ElectronicAddressIdentifiers, OrganisationInfo, OrganisationName |
| Instance | <pre> <organizationInformation xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ns0="urn:oasis:names:tc:emergency:edxl:have:2.0" <ns0:OrganisationName OrganisationID="" OrganisationIDType="">{1,unbounded}</ns0:OrganisationName> <xpil:Addresses>{0,1}</xpil:Addresses> <xpil>ContactNumbers>{0,1}</xpil>ContactNumbers> <xpil:ElectronicAddressIdentifiers>{0,1}</xpil:ElectronicAddressIdentifiers> <xpil:OrganisationInfo CategoryType="" DataQualityType="" IndustryCode="" IndustryCodeType="" IndustryType="" Name=""> </xpil:OrganisationInfo> </organizationInformation> </pre> |

Element FacilityType / geoLocation

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The single geometry that represents the Facility location. A WGS84 SRS element is mandatory and alternate SRS geometry elements can be provided. All geometry elements should be reflecting the same physical location. |
| Diagram | <pre> classDiagram class GeoLocationType { 0..∞ geoLocationExtended wgs84Location } geoLocation "The single geometry that represents the Facility location. A WGS84 SRS element is mandatory and alternate SRS geometry..." --> GeoLocationType note over GeoLocationType: Extension of 'edxl-gsf:EDXLGeoLocationType' </pre> |
| Type | GeoLocationType |
| Properties | content: complex |
| Model | wgs84Location, geoLocationExtended* |
| Children | geoLocationExtended, wgs84Location |
| Instance | <pre> <geoLocation xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <wgs84Location srsName="http://www.opengis.net/def/crs/EPSG/0/4326">{1,1}</wgs84Location> <geoLocationExtended srsName="">{0,unbounded}</geoLocationExtended> </geoLocation> </pre> |

Element GeoLocationType / wgs84Location

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The location of the facility in WGS84 coordinates. The values in this element must use the WGS84 (EPSG:4326) values. This element is mandatory to ensure compatibility globally. If alternate SRS are needed, use the geoLocationExtended elements to support 1 or more SRS that are needed in your community. FUTURE versions of HAVE may support additional or alternate globally supported SRS. |

| Diagram | <pre> classDiagram class wgs84Location { <<Extension of 'edxl-gsf:EDXLGeoLocationType'>> "The location of the facility in WGS84 coordinates. The values in this element must use the WGS84 (EPSG:4326) values...." } class edxl-gsf:EDXLGeoLocationType { <<extension base>> <<Attributes>> @srsName Fixed http://www.opengis.net/def/crs/EPSC/ ... } wgs84Location --> edxl-gsf:EDXLGeoLocationType edxl-gsf:EDXLGeoLocationType < -- gml:point edxl-gsf:EDXLGeoLocationType < -- gml:circleByCenterPoint edxl-gsf:EDXLGeoLocationType < -- gml:polygon edxl-gsf:EDXLGeoLocationType < -- gml:envelope edxl-gsf:EDXLGeoLocationType < -- gml:lineString </pre> | | | | | | | | | | |
|----------------|--|--|----------|-------|-----|--|---------|--|--|----------|--|
| Type | extension of edxl-gsf:EDXLGeoLocationType | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • edxl-gsf:EDXLGeoLocationType | | | | | | | | | | |
| Properties | content: complex | | | | | | | | | | |
| Model | gml:point gml:circleByCenterPoint gml:polygon gml:envelope gml:lineString | | | | | | | | | | |
| Children | gml:circleByCenterPoint, gml:envelope, gml:lineString, gml:point, gml:polygon | | | | | | | | | | |
| Instance | <pre> <wgs84Location srsName="http://www.opengis.net/def/crs/ EPSG/0/4326" xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:gml="http://www.opengis.net/ gml/3.2"> <gml:point AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:point> <gml:circleByCenterPoint Interpolation="CircularArcCenterPointWithRadius" NumArc="1" NumDerivativeInterior="0" Nu gml:circleByCenterPoint> <gml:polygon AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:polygon> <gml:envelope AxisLabels="" SrsDimensions="" SrsName="" UomLabels="">{1,1}</gml:envelope> <gml:lineString AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}< gml:linestring> </wgs84Location> </pre> | | | | | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>srsName</td><td></td><td>http://www.opengis.net/def/crs/EPSC/0/4326</td><td>required</td><td></td></tr> </tbody> </table> | QName | Type | Fixed | Use | | srsName | | http://www.opengis.net/def/crs/EPSC/0/4326 | required | |
| QName | Type | Fixed | Use | | | | | | | | |
| srsName | | http://www.opengis.net/def/crs/EPSC/0/4326 | required | | | | | | | | |

Element GeoLocationType / geoLocationExtended

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The location of the facility in non-WGS84 (EPSG:4326) coordinates. These alternate (and optional) coordinates are intended for the purposes of systems that require the sending system to provide specialize SRS coordinates. |

| Diagram | <pre> classDiagram class geoLocationExtended { <<Extension of 'edxl-gsf:EDXLGeoLocationType'>> "The location of the facility in non-WGS84 (EPSG:4326) coordinates. These alternate (and optional) coordinates are..." } class Attributes { <<@Attributes>> srsName } geoLocationExtended --> Attributes geoLocationExtended --> point geoLocationExtended --> circleByCenterPoint geoLocationExtended --> polygon geoLocationExtended --> envelope geoLocationExtended --> lineString </pre> | | | | | | |
|----------------|--|----------|---------|------------|---------|------------|-----------|
| Type | extension of edxl-gsf:EDXLGeoLocationType | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • edxl-gsf:EDXLGeoLocationType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | gml:point gml:circleByCenterPoint gml:polygon gml:envelope gml:lineString | | | | | | |
| Children | gml:circleByCenterPoint, gml:envelope, gml:lineString, gml:point, gml:polygon | | | | | | |
| Instance | <pre> <geoLocationExtended srsName="" xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:gml="http://www.opengis.net/gml/3.2"> <gml:point AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:point> <gml:circleByCenterPoint Interpolation="CircularArcCenterPointWithRadius" NumArc="1" NumDerivativeInterior="0" NumPoint="1" SrsName="" UomLabels="">{1,1}</gml:circleByCenterPoint> <gml:polygon AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:polygon> <gml:envelope AxisLabels="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:envelope> <gml:lineString AxisLabels="" gml:Id="" SrsDimension="" SrsName="" UomLabels="">{1,1}</gml:lineString> </geoLocationExtended> </pre> | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>srsName</td><td></td><td>required</td></tr> </tbody> </table> | QName | Type | Use | srsName | | required |
| QName | Type | Use | | | | | |
| srsName | | required | | | | | |

Element FacilityType / status

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The overall status of the Facility. This value is intended to provide a high-level summary status of the Facility. The particulars driving that Facility status should be provided where appropriate (Services, Operations, etc.). Comments (comment element) should be used to provide only the high-level summary. |

| | |
|------------|--|
| Diagram | <pre> classDiagram class StatusType { status : StatusType isOK : xs:boolean colourStatus : ColourStatusType stability : StabilityType comment : FreeTextType } StatusType < -- ComplexType </pre> |
| Type | StatusType |
| Properties | content: complex |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} |
| Children | colourStatus, comment, isOK, stability |
| Instance | <pre> <status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status> </pre> |

Element StatusType / isOK

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Is the service/capability available/functioning/adequate? True = yes, false =no. |
| Diagram | <pre> classDiagram class isOK { isOK : xs:boolean } isOK < -- PrimitiveType </pre> |
| Type | xs:boolean |
| Properties | content: simple |

Element StatusType / colourStatus

| | |
|------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> classDiagram class colourStatus { colourCode : ColourCodeDefaultType } colourStatus < -- ComplexType </pre> |
| Type | ColourStatusType |
| Properties | content: complex |
| | minOccurs: 0 |
| Model | colourCode , statusDescription{0,1} |

| | |
|----------|--|
| Children | colourCode, statusDescription |
| Instance | <pre><colourStatus xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <colourCode>{1,1}</colourCode> <statusDescription>{0,1}</statusDescription> </colourStatus></pre> |

Element ColourStatusType / colourCode

| | | | | | | | | | | | | | | |
|----------------|---|---|--------|------------|------|-------------|-----|---|-------------|--------|--|-------------|-------|----------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | |
| Annotations | Colour (text-based) of the status. By default triage colours of green, yellow, orange, red, black are supported. TODO: CREATE a new ColourCodeType to capture the full ISO 22324 data (colour, meaning, ...) | | | | | | | | | | | | | |
| Diagram | | | | | | | | | | | | | | |
| Type | ColourCodeDefaultType | | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> xs:token ct:EDXLStringType ColourCodeDefaultType | | | | | | | | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table> | content: | simple | minOccurs: | 1 | | | | | | | | | |
| content: | simple | | | | | | | | | | | | | |
| minOccurs: | 1 | | | | | | | | | | | | | |
| Facets | <table border="1"> <tr> <td>minLength</td> <td>1</td> </tr> <tr> <td>maxLength</td> <td>1023</td> </tr> <tr> <td>enumeration</td> <td>red</td> <td>RED - severe/extreme deviation from normal condition. Marks a noted exception from normal conditions.</td> </tr> <tr> <td>enumeration</td> <td>yellow</td> <td>YELLOW - moderate deviation from normal condition but not at SEVERE/EXTREME level.</td> </tr> <tr> <td>enumeration</td> <td>green</td> <td>GREEN - normal conditions.</td> </tr> </table> | minLength | 1 | maxLength | 1023 | enumeration | red | RED - severe/extreme deviation from normal condition. Marks a noted exception from normal conditions. | enumeration | yellow | YELLOW - moderate deviation from normal condition but not at SEVERE/EXTREME level. | enumeration | green | GREEN - normal conditions. |
| minLength | 1 | | | | | | | | | | | | | |
| maxLength | 1023 | | | | | | | | | | | | | |
| enumeration | red | RED - severe/extreme deviation from normal condition. Marks a noted exception from normal conditions. | | | | | | | | | | | | |
| enumeration | yellow | YELLOW - moderate deviation from normal condition but not at SEVERE/EXTREME level. | | | | | | | | | | | | |
| enumeration | green | GREEN - normal conditions. | | | | | | | | | | | | |

Element ColourStatusType / statusDescription

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Human-readable text describing the reason for selection of the particular colour-code. | | | | |
| Diagram | | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre><statusDescription xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </statusDescription></pre> | | | | |

Element StatusType / stability

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | | | |
|-------------|--|---------------|--|
| Annotations | Indication that the Status is stable, improving, or deteriorating | | |
| Diagram | <pre> graph LR stability[stability] --> StabilityType[StabilityType] subgraph Callout direction TB C1[Indication of stability - positive/improving, negative/deteriorating, or neutral/stable] end </pre> | | |
| Type | StabilityType | | |
| Properties | content: simple minOccurs: 0 | | |
| Facets | enumeration | stable | Stable/unchanging – conditions remain within norms and are not varying out of normal patterns. |
| | enumeration | improving | Conditions are improving towards normal. |
| | enumeration | deteriorating | Conditions are deviating negatively from normal. |

Element StatusType / comment

| | |
|------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> graph TD comment[comment] --> FreeTextType[FreeTextType] subgraph Callout direction TB C1[The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute).] C2[0..∞ alternateText] C3[Alternate language representation.] end </pre> |
| Type | FreeTextType |
| Properties | content: complex minOccurs: 0 |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> |

Element FacilityType / services

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Container element of all the elements of service coverage. This includes both the necessary staff and facilities. Indicator of the availability of specialty service coverage. |
| Diagram | <pre> graph TD services[services] --> ServicesType[ServicesType] subgraph Callout direction TB C1[ServiceListItem provides a description of a particular service – availability, capacity, and status.] C2[comment] C3[General comment/summary on all of the services] end </pre> |
| Type | ServicesType |
| Properties | content: complex |
| Model | service+ , comment{0,1} |
| Children | comment, service |

| | |
|----------|--|
| Instance | <pre><services xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <service>{1,unbounded}</service> <comment>{0,1}</comment> </services></pre> |
|----------|--|

Element ServicesType / service

| | | | | | | | |
|-------------|---|----------|---------|------------|---|------------|-----------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | ServiceListItem provides a description of a particular service - availability, capacity, and status. | | | | | | |
| Diagram | <pre> classDiagram class ServiceType { name : FreeTextType code : Restriction of 'ServiceCodeDefaultType' status : StatusType externalCode : edxl-ct:ValueKeyType bedCapacity : BedCapacityType capacity : CapacityType comment : FreeTextType ext:extension } class ServiceType { <<ServiceListItem provides a description of a particular service - availability, capacity, and status.>> } ServiceType < -- ServiceType </pre> <p>The diagram shows the UML Class Diagram for the ServiceType element. It consists of two classes: ServiceType and ServiceType. The first ServiceType class has attributes: name (FreeTextType), code (Restriction of 'ServiceCodeDefaultType'), status (StatusType), externalCode (edxl-ct:ValueKeyType), bedCapacity (BedCapacityType), capacity (CapacityType), comment (FreeTextType), and ext:extension. The second ServiceType class is annotated with: "ServiceListItem provides a description of a particular service - availability, capacity, and status.". A generalization relationship exists between the two ServiceType classes, with the first one being the general class and the second one being the specific class.</p> | | | | | | |
| Type | ServiceType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table> | content: | complex | minOccurs: | 1 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 1 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | name , code , status , externalCode* , bedCapacity{0,1} , capacity{0,1} , comment{0,1} , ext:extension* | | | | | | |
| Children | bedCapacity, capacity, code, comment, ext:extension, externalCode, name, status | | | | | | |
| Instance | <pre><service xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension"> <name>{1,1}</name> <code>{1,1}</code> <status>{1,1}</status> <externalCode>{0,unbounded}</externalCode> <bedCapacity>{0,1}</bedCapacity> <capacity>{0,1}</capacity> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </service></pre> | | | | | | |

Element ServiceType / name

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The human-readable name of the service that is being described. |

| | |
|------------|--|
| Diagram | |
| Type | FreeTextType |
| Properties | content: complex |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre><name xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </name></pre> |

Element ServiceType / code

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|--|----------------------------|--|-------------|----------|-----------------------|-------------|------------|----------------------|-------------|---------------------|--|-------------|------------------------|---|-------------|--------------------|---------------|-------------|-----------------------|------------------|-------------|----------------------|---|-------------|----------|-------------------|-------------|---------------------|--|-------------|-------------------|--------------------|-------------|-------------------|-----------------------------|-------------|---------------------|---------------------|-------------|------------------------|--|-------------|-------------------------|---|-------------|------------------|--|-------------|-------------|-------------|-------------|-----------|--------------------|-------------|--------------------|--|-------------|-----------------------|--|-------------|-------|----------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | ServiceCodeDefaultType | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:string • ct:ValueType • ServiceCodeDefaultType | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Properties | content: simple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Facets | <table border="0"> <tr> <td>enumeration</td> <td>airborneInfectionIsolation</td> <td></td> </tr> <tr> <td>enumeration</td> <td>burnUnit</td> <td>Burn Center services.</td> </tr> <tr> <td>enumeration</td> <td>cardiology</td> <td>Cardiology services.</td> </tr> <tr> <td>enumeration</td> <td>cardiology.invasive</td> <td>Cardiology with invasive capabilities.</td> </tr> <tr> <td>enumeration</td> <td>cardiology.noninvasive</td> <td>Cardiology with NO invasive capabilities.</td> </tr> <tr> <td>enumeration</td> <td>cardiologymi.STEMI</td> <td>STEMI support</td> </tr> <tr> <td>enumeration</td> <td>cardiologymi.nonSTEMI</td> <td>NO STEMI support</td> </tr> <tr> <td>enumeration</td> <td>cardiology.telemetry</td> <td>For remote monitoring of cardiology telemetry data for patient.</td> </tr> <tr> <td>enumeration</td> <td>dialysis</td> <td>Dialysis services</td> </tr> <tr> <td>enumeration</td> <td>emergencyDepartment</td> <td></td> </tr> <tr> <td>enumeration</td> <td>hyperBaricChamber</td> <td>Hyperbaric Chamber</td> </tr> <tr> <td>enumeration</td> <td>infectiousDisease</td> <td>Infectious Disease Services</td> </tr> <tr> <td>enumeration</td> <td>intensiveCare.adult</td> <td>Adult ICU services.</td> </tr> <tr> <td>enumeration</td> <td>intensiveCare.neonatal</td> <td>Neonatal Intensive Care Unit (ICU) services.</td> </tr> <tr> <td>enumeration</td> <td>intensiveCare.pediatric</td> <td>Pediatric Intensive Care Unit (ICU) services.</td> </tr> <tr> <td>enumeration</td> <td>intermediateCare</td> <td>For low-risk, chronically or critically ill patients</td> </tr> <tr> <td>enumeration</td> <td>neonatology</td> <td>Neonatology</td> </tr> <tr> <td>enumeration</td> <td>neurology</td> <td>Neurology Services</td> </tr> <tr> <td>enumeration</td> <td>neurology.invasive</td> <td>Neurology-Invasive services, including invasive catheterization.</td> </tr> <tr> <td>enumeration</td> <td>neurology.noninvasive</td> <td>Neurology-Non-Invasive services with no invasive catheterization capability.</td> </tr> <tr> <td>enumeration</td> <td>obgyn</td> <td>OBGYN services</td> </tr> </table> | enumeration | airborneInfectionIsolation | | enumeration | burnUnit | Burn Center services. | enumeration | cardiology | Cardiology services. | enumeration | cardiology.invasive | Cardiology with invasive capabilities. | enumeration | cardiology.noninvasive | Cardiology with NO invasive capabilities. | enumeration | cardiologymi.STEMI | STEMI support | enumeration | cardiologymi.nonSTEMI | NO STEMI support | enumeration | cardiology.telemetry | For remote monitoring of cardiology telemetry data for patient. | enumeration | dialysis | Dialysis services | enumeration | emergencyDepartment | | enumeration | hyperBaricChamber | Hyperbaric Chamber | enumeration | infectiousDisease | Infectious Disease Services | enumeration | intensiveCare.adult | Adult ICU services. | enumeration | intensiveCare.neonatal | Neonatal Intensive Care Unit (ICU) services. | enumeration | intensiveCare.pediatric | Pediatric Intensive Care Unit (ICU) services. | enumeration | intermediateCare | For low-risk, chronically or critically ill patients | enumeration | neonatology | Neonatology | enumeration | neurology | Neurology Services | enumeration | neurology.invasive | Neurology-Invasive services, including invasive catheterization. | enumeration | neurology.noninvasive | Neurology-Non-Invasive services with no invasive catheterization capability. | enumeration | obgyn | OBGYN services |
| enumeration | airborneInfectionIsolation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | burnUnit | Burn Center services. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiology | Cardiology services. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiology.invasive | Cardiology with invasive capabilities. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiology.noninvasive | Cardiology with NO invasive capabilities. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiologymi.STEMI | STEMI support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiologymi.nonSTEMI | NO STEMI support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | cardiology.telemetry | For remote monitoring of cardiology telemetry data for patient. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | dialysis | Dialysis services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | emergencyDepartment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | hyperBaricChamber | Hyperbaric Chamber | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | infectiousDisease | Infectious Disease Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | intensiveCare.adult | Adult ICU services. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | intensiveCare.neonatal | Neonatal Intensive Care Unit (ICU) services. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | intensiveCare.pediatric | Pediatric Intensive Care Unit (ICU) services. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | intermediateCare | For low-risk, chronically or critically ill patients | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | neonatology | Neonatology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | neurology | Neurology Services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | neurology.invasive | Neurology-Invasive services, including invasive catheterization. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | neurology.noninvasive | Neurology-Non-Invasive services with no invasive catheterization capability. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| enumeration | obgyn | OBGYN services | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-------------|----------------------------|--|
| enumeration | obgyn.withLaborDelivery | OBGYN with labor delivery. |
| enumeration | obgyn.withoutLaborDelivery | OBGYN without labor delivery capabilities. |
| enumeration | operatingRooms | |
| enumeration | ophthalmology | Ophthalmology services |
| enumeration | orthopedic | Orthopedic services |
| enumeration | pediatrics | Pediatric services |
| enumeration | psychiatric | Psychiatric services |
| enumeration | surgery | Surgery capabilities |
| enumeration | surgery.adultGeneral | General Adult surgery capabilities |
| enumeration | surgery.pediatrics | General Pediatric surgery capabilities |
| enumeration | surgery.orthopedics | Orthopedic surgery capabilities |
| enumeration | surgery.neurosurgery | Neurosurgery capabilities |
| enumeration | surgery.facial | Facial surgery capabilities |
| enumeration | surgery.cardiothoracic | Cardiothoracic surgery capabilities |
| enumeration | surgery.hand | Hand surgery capabilities |
| enumeration | surgery.reimplantation | Reimplantation surgery capabilities. |
| enumeration | surgery.spinal | Spinal surgery capabilities |
| enumeration | surgery.vascular | Vascular surgery capabilities |
| enumeration | surgery.anesthesia | Anesthesia services |
| enumeration | traumaCenter | Trauma Center |

Element ServiceType / status

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Describes the status of the service. | | | | |
| Diagram | <pre> classDiagram class StatusType { isOK : xs:boolean colourStatus : ColourStatusType stability : StabilityType comment : FreeTextType } status : StatusType status <--> StatusType note over status : Describes the status of the service. </pre> | | | | |
| Type | StatusType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table> | content: | complex | minOccurs: | 1 |
| content: | complex | | | | |
| minOccurs: | 1 | | | | |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} | | | | |
| Children | colourStatus, comment, isOK, stability | | | | |
| Instance | <pre> <status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status> </pre> | | | | |

Element ServiceType / externalCode

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | | | | | | | |
|-------------|---|----------|---------|------------|---|------------|-----------|
| Annotations | Allows an external system to place its own equivalent code for the service.code value. This allows external systems to correlate their data directly in the HAVE report. | | | | | | |
| Diagram | <pre> classDiagram class externalCode { <<Type edxl-ct:ValueKeyType>> } class edxl-ct:ValueKeyType { <<Allows an external system to place its own equivalent code for the service.code value. This allows external systems to correlate their data directly in the HAVE report.>> <<content: complex>> <<minOccurs: 0>> <<maxOccurs: unbounded>> <<ct:valueListURI>> <<ct:value>> } externalCode --> edxl-ct:ValueKeyType </pre> | | | | | | |
| Type | ct:ValueKeyType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | ct:valueListURI , ct:value | | | | | | |
| Children | ct:value, ct:valueListURI | | | | | | |
| Instance | <pre> <externalCode xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl- ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:valueListURI>{1,1}</edxl-ct:valueListURI> <edxl-ct:value>{1,1}</edxl-ct:value> </externalCode> </pre> | | | | | | |

Element ServiceType / bedCapacity

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | An indication of the bed capacity that the facility makes available for the community to know. It reflects fully staffed and equipped beds. The intention here is to provide an external view of where beds may be available in a health network. The intent is not for HAVE to become a hospital administration tool. | | | | |
| Diagram | <pre> classDiagram class bedCapacity { <<Type BedCapacityType>> } class BedCapacityType { <<The number of vacant/available beds to which patients can be immediately supported. These must include supporting...>> <<availableCount>> <<baselineCount>> <<comment>> <<Human-readable description of the service capacity for this service. This value can be used to explain any specific...>> } bedCapacity --> BedCapacityType </pre> | | | | |
| Type | BedCapacityType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | availableCount , baselineCount{0,1} , comment{0,1} | | | | |
| Children | availableCount, baselineCount, comment | | | | |
| Instance | <pre> <bedCapacity xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <availableCount>{1,1}</availableCount> <baselineCount>{0,1}</baselineCount> <comment>{0,1}</comment> </bedCapacity> </pre> | | | | |

Element BedCapacityType / availableCount

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The number of vacant/available beds to which patients can be immediately supported. These must include supporting space, equipment, medical material, ancillary and support services and staff to |

| | | | | | |
|------------|--|----------|--------|------------|---|
| | operate under normal circumstances. These beds are licensed, physically available and have staff on hand to attend to the patient who occupies the bed. NEGATIVE values means the service is operating beyond normal capacity. | | | | |
| Diagram | | | | | |
| Type | xs:integer | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table> | content: | simple | minOccurs: | 1 |
| content: | simple | | | | |
| minOccurs: | 1 | | | | |

Element BedCapacityType / baselineCount

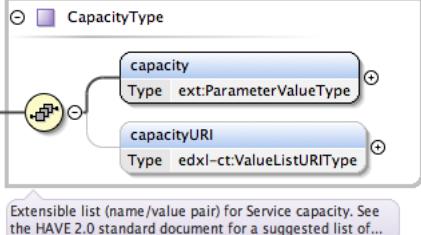
| | | | | | |
|--------------|--|--------------|--------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The maximum (baseline) number of beds in this category. | | | | |
| Diagram | | | | | |
| Type | restriction of xs:integer | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | simple | minOccurs: | 0 |
| content: | simple | | | | |
| minOccurs: | 0 | | | | |
| Facets | <table border="1"> <tr> <td>minInclusive</td> <td>0</td> </tr> </table> | minInclusive | 0 | | |
| minInclusive | 0 | | | | |

Element BedCapacityType / comment

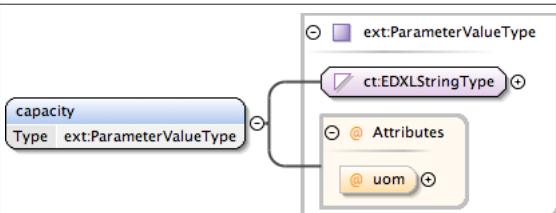
| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Human-readable description of the service capacity for this service. This value can be used to explain any specific information for the reader about the Bed Capacity. | | | | |
| Diagram | | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre><comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment></pre> | | | | |

Element ServiceType / capacity

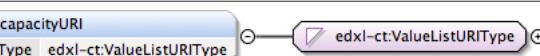
| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Indicates the capacity status of this particular service. |

| | |
|------------|---|
| Diagram |  |
| Type | CapacityType |
| Properties | <p>content: complex</p> <p>minOccurs: 0</p> |
| Model | capacity , capacityURI{0,1} |
| Children | capacity, capacityURI |
| Instance | <pre><capacity xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <capacity uom="">{1,1}</capacity> <capacityURI>{0,1}</capacityURI> </capacity></pre> |

Element CapacityType / capacity

| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
|----------------|---|----------|------|-----|-----|-----------|----------|
| Diagram |  | | | | | | |
| Type | ext:ParameterValueType | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:token • ct:EDXLStringType • ext:ParameterValueType | | | | | | |
| Properties | content: complex | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>xs:string</td> <td>optional</td> </tr> </tbody> </table> | QName | Type | Use | uom | xs:string | optional |
| QName | Type | Use | | | | | |
| uom | xs:string | optional | | | | | |

Element CapacityType / capacityURI

| | |
|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram |  |
| Type | ct:ValueListURIType |
| Properties | <p>content: simple</p> <p>minOccurs: 0</p> <p>maxOccurs: 1</p> |

Element ServiceType / comment

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Textual description of Service situation. |

| | | | | | |
|------------|--|----------|---------|------------|---|
| Diagram | <pre> classDiagram class FreeTextType { defaultText : LimitedString alternateText : AlternateTextType } class comment { Type : FreeTextType } FreeTextType < -- comment limitedString "0..> alternateText alternateText "0..> FreeTextType </pre> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | |

Element ServicesType / comment

| | | | | | | | |
|-------------|--|----------|---------|------------|---|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | General comment/summary on all of the services | | | | | | |
| Diagram | <pre> classDiagram class FreeTextType { defaultText : LimitedString alternateText : AlternateTextType } class comment { Type : FreeTextType } FreeTextType < -- comment limitedString "0..> alternateText alternateText "0..> FreeTextType </pre> | | | | | | |
| Type | FreeTextType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | 1 |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | 1 | | | | | | |
| Model | defaultText , alternateText* | | | | | | |
| Children | alternateText, defaultText | | | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | | | |

Element FacilityType / futureServices

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Optional list of Service Capabilities in future for planned or potential ramping up (or down) of capabilities to accomodate surge needs or degraded capabilities. 0....n |
| Diagram | <pre> classDiagram class FutureServicesType { service : Extension of 'ServiceType' } class comment { Type : FreeTextType } FutureServicesType < -- comment extension "1..> service service "1..> FutureServicesType </pre> |

| | |
|------------|--|
| Type | FutureServicesType |
| Properties | content: complex minOccurs: 0 |
| Model | service+ , comment{0,1} |
| Children | comment, service |
| Instance | <pre><futureServices xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <service>{1,unbounded}</service> <comment>{0,1}</comment> </futureServices></pre> |

Element FutureServicesType / service

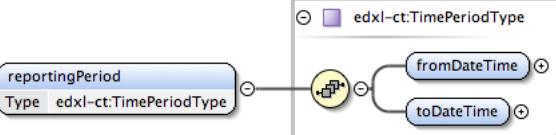
| | |
|----------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | ServiceListItem provides a description of a particular service - availability, capacity, and status. |
| Diagram | <pre> classDiagram class ServiceType { name : FreeTextType code : Restriction of 'ServiceCodeDefaultType' status : StatusType externalCode : edxl-ct:ValueKeyType bedCapacity : BedCapacityType capacity : CapacityType comment : FreeTextType ext:extension : ExtensibleElement reportingPeriod : edxl-ct:TimePeriodType } class ServiceType { <<Extension of 'ServiceType'>> service : Extension of 'ServiceType' } ServiceType < -- ServiceType ServiceType < -- ServiceType </pre> <p>The diagram illustrates the UML class structure for the ServiceType extension. It shows two inheritance paths from a common base class (ServiceType) to a specific ServiceType. The base class contains attributes: name (FreeTextType), code (Restriction of 'ServiceCodeDefaultType'), status (StatusType), externalCode (edxl-ct:ValueKeyType), bedCapacity (BedCapacityType), capacity (CapacityType), comment (FreeTextType), and ext:extension (ExtensibleElement). The specific ServiceType class adds a service attribute (Extension of 'ServiceType'). A note indicates that ServiceListItem provides a description of a particular service - availability, capacity, and status.</p> |
| Type | extension of ServiceType |
| Type hierarchy | • ServiceType |
| Properties | content: complex minOccurs: 1 maxOccurs: unbounded |
| Model | name , code , status , externalCode* , bedCapacity{0,1} , capacity{0,1} , comment{0,1} , ext:extension* , reportingPeriod |
| Children | bedCapacity, capacity, code, comment, ext:extension, externalCode, name, reportingPeriod, status |
| Instance | <pre><service xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension"> <name>{1,1}</name> <code>{1,1}</code> <status>{1,1}</status> <externalCode>{0,unbounded}</externalCode> </service></pre> |

```

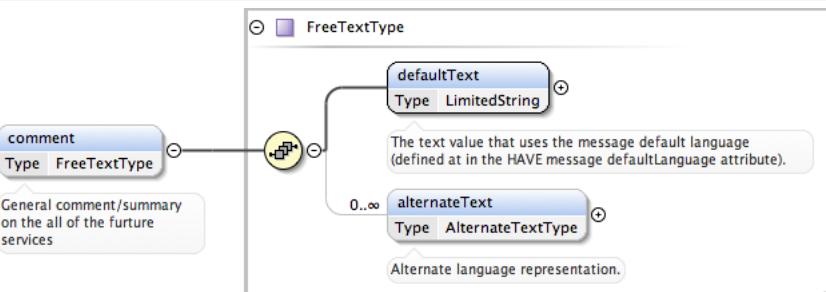
<bedCapacity>{0,1}</bedCapacity>
<capacity>{0,1}</capacity>
<comment>{0,1}</comment>
<ext:extension>{0,unbounded}</ext:extension>
<reportingPeriod>{1,1}</reportingPeriod>
</service>

```

Element FutureServicesType / service / reportingPeriod

| | |
|------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram |  |
| Type | ct:TimePeriodType |
| Properties | content: complex |
| Model | ct:fromDateTime , ct:toDateTime |
| Children | ct:fromDateTime, ct:toDateTime |
| Instance | <pre> <reportingPeriod xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl- ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:fromDateTime>{1,1}</edxl-ct:fromDateTime> <edxl-ct:toDateTime>{1,1}</edxl-ct:toDateTime> </reportingPeriod> </pre> |

Element FutureServicesType / comment

| | | | | | | | |
|-------------|--|----------|---------|------------|---|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | General comment/summary on the all of the furture services | | | | | | |
| Diagram |  | | | | | | |
| Type | FreeTextType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | 1 |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | 1 | | | | | | |
| Model | defaultText , alternateText* | | | | | | |
| Children | alternateText, defaultText | | | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | | | |

Element FacilityType / activityInPeriod

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Provides a set of summaries of activity that has occurred in the indicated reporting period. This item is intended to provide a very high-level summary of facility activity. |

| | | | | | | | |
|------------|--|----------|---------|------------|---|------------|-----------|
| Diagram | <pre> classDiagram class ActivityInPeriodType { reportingPeriod : edxl-ct:TimePeriodType admissions : xs:int discharges : xs:int deaths : xs:int comment : FreeTextType } ActivityInPeriodType < -- activityInPeriod : ActivityInPeriodType note over ActivityInPeriodType: Provides a set of summaries of activity that has occurred in the indicated reporting period. This item is intended to... note over ActivityInPeriodType: ActivityInPeriodType gathers information about the admissions, discharges, and deaths in a time period. </pre> | | | | | | |
| Type | ActivityInPeriodType | | | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">0</td></tr> <tr> <td style="padding: 2px;">maxOccurs:</td><td style="padding: 2px;">unbounded</td></tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | reportingPeriod{0,1} , admissions , discharges , deaths , comment{0,1} | | | | | | |
| Children | admissions, comment, deaths, discharges, reportingPeriod | | | | | | |
| Instance | <pre> <activityInPeriod xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <reportingPeriod>{0,1}</reportingPeriod> <admissions>{1,1}</admissions> <discharges>{1,1}</discharges> <deaths>{1,1}</deaths> <comment>{0,1}</comment> </activityInPeriod> </pre> | | | | | | |

Element ActivityInPeriodType / reportingPeriod

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The time period (From -> To) that the activity occurred in. If this element is not included the reportingPeriod at the Facility level should be assumed to define the time range. | | | | |
| Diagram | <pre> classDiagram class edxl-ct:TimePeriodType { fromDateTime toDateTime } reportingPeriod : edxl-ct:TimePeriodType note over reportingPeriod: The time period (From -> To) that the activity occurred in. If this element is not included the reportingPeriod at the... </pre> | | | | |
| Type | ct:TimePeriodType | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">0</td></tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | ct:fromDateTime , ct:toDateTime | | | | |
| Children | ct:fromDateTime, ct:toDateTime | | | | |
| Instance | <pre> <reportingPeriod xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl- ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:fromDateTime>{1,1}</edxl-ct:fromDateTime> <edxl-ct:toDateTime>{1,1}</edxl-ct:toDateTime> </reportingPeriod> </pre> | | | | |

</reportingPeriod>

Element ActivityInPeriodType / admissions

| | | | | | | | |
|-------------|---|----------|--------|------------|---|----------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | Number of admissions in the period. | | | | | | |
| Diagram | <p>The diagram shows a class named 'admissions' with a multiplicity of 0..1. It is associated with a type 'xs:int'. A callout box indicates that 'xs:int' is a built-in derived type derived from long by setting maxInclusive to 2147483647.</p> | | | | | | |
| Type | xs:int | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>0</td> </tr> </table> | content: | simple | minOccurs: | 1 | default: | 0 |
| content: | simple | | | | | | |
| minOccurs: | 1 | | | | | | |
| default: | 0 | | | | | | |

Element ActivityInPeriodType / discharges

| | | | | | | | |
|-------------|---|----------|--------|------------|---|----------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | Number of Discharges in the period. | | | | | | |
| Diagram | <p>The diagram shows a class named 'discharges' with a multiplicity of 0..1. It is associated with a type 'xs:int'. A callout box indicates that 'xs:int' is a built-in derived type derived from long by setting maxInclusive to 2147483647.</p> | | | | | | |
| Type | xs:int | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>0</td> </tr> </table> | content: | simple | minOccurs: | 1 | default: | 0 |
| content: | simple | | | | | | |
| minOccurs: | 1 | | | | | | |
| default: | 0 | | | | | | |

Element ActivityInPeriodType / deaths

| | | | | | | | |
|-------------|---|----------|--------|------------|---|----------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | Number of Deaths in the period. | | | | | | |
| Diagram | <p>The diagram shows a class named 'deaths' with a multiplicity of 0..1. It is associated with a type 'xs:int'. A callout box indicates that 'xs:int' is a built-in derived type derived from long by setting maxInclusive to 2147483647.</p> | | | | | | |
| Type | xs:int | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>0</td> </tr> </table> | content: | simple | minOccurs: | 1 | default: | 0 |
| content: | simple | | | | | | |
| minOccurs: | 1 | | | | | | |
| default: | 0 | | | | | | |

Element ActivityInPeriodType / comment

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | General comment/summary of the activity in period. |
| Diagram | <p>The diagram shows a class named 'comment' with a multiplicity of 0..1. It is associated with a type 'FreeTextType'. A callout box indicates that 'FreeTextType' can be either 'defaultText' (type LimitedString) or 'alternateText' (type AlternateTextType). A note states that 'defaultText' uses the message default language defined in HAVE defaultLanguage.</p> |

| | |
|------------|---|
| Type | FreeTextType |
| Properties | content: complex minOccurs: 0 |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre><comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0, unbounded}</alternateText> </comment></pre> |

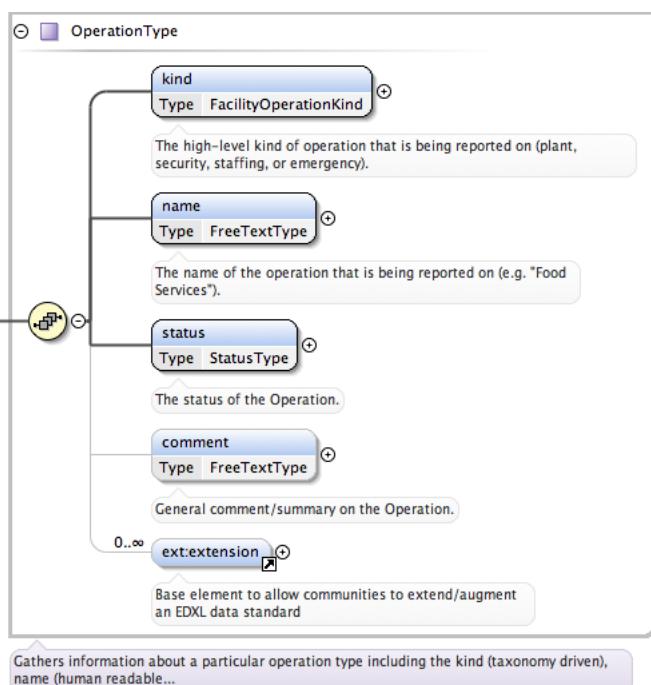
Element FacilityType / operations

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Provides a taxonomy-based list of operations that describe the operations of the Facility. |
| Diagram | <pre> classDiagram class OperationsType { operations : OperationsType comment : FreeTextType } OperationsType "1..∞" -- "operation : OperationType" </pre> <p>The diagram illustrates the structure of the <code>OperationsType</code> element. It features a central node labeled <code>OperationsType</code> with a small icon. An association line connects it to a node labeled <code>operations</code> (Type: <code>OperationsType</code>). Another association line connects it to a node labeled <code>comment</code> (Type: <code>FreeTextType</code>). A multiplicity of <code>1..∞</code> is shown near the <code>operations</code> association, and a plus sign (+) is shown near the <code>comment</code> association. Callouts provide additional context: one for the <code>operations</code> attribute stating 'Provides a taxonomy-based list of operations that describe the operations of the Facility.' and another for the <code>comment</code> attribute stating 'General comment/summary on all of the operations.'</p> |
| Type | OperationsType |
| Properties | content: complex minOccurs: 0 |
| Model | operation+, comment{0,1} |
| Children | comment, operation |
| Instance | <pre><operations xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <operation>{1,unbounded}</operation> <comment>{0,1}</comment> </operations></pre> |

Element OperationsType / operation

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Operation that facility provides in the context of key areas such as Clinical Operations, Security Operations, Facility Operations. |

Diagram



| | |
|------------|---|
| Type | OperationType |
| Properties | <p>content: complex</p> <p>minOccurs: 1</p> <p>maxOccurs: unbounded</p> |
| Model | kind , name , status , comment{0,1} , ext:extension* |
| Children | comment, ext:extension, kind, name, status |
| Instance | <pre> <operation xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension" <kind>{1,1}</kind> <name>{1,1}</name> <status>{1,1}</status> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </operation> </pre> |

Element OperationType / kind

| | | | | | | | | | | | | | | | |
|-------------|--|---|--|-------------|-------|---|-------------|----------|---|-------------|----------|--|-------------|-----------|----------------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | | |
| Annotations | The high-level kind of operation that is being reported on (plant, security, staffing, or emergency). | | | | | | | | | | | | | | |
| Diagram | <pre> classDiagram class FacilityOperationKind { <<OperationType>> } class kind { Type FacilityOperationKind } kind --> FacilityOperationKind note over kind: The high-level kind of operation that is being reported on (plant, security, staffing, or emergency). </pre> | | | | | | | | | | | | | | |
| Type | FacilityOperationKind | | | | | | | | | | | | | | |
| Properties | content: simple | | | | | | | | | | | | | | |
| Facets | <table border="1"> <tbody> <tr> <td>enumeration</td> <td>plant</td> <td>Plant - the key equipment and capabilities needed to operate the facility (e.g. HVAC, cafeteria).</td> </tr> <tr> <td>enumeration</td> <td>security</td> <td>Security operations for facility (e.g. patrol, surveillance).</td> </tr> <tr> <td>enumeration</td> <td>staffing</td> <td>Staff-related operations (e.g. medical personnel, support staffing, administrative).</td> </tr> <tr> <td>enumeration</td> <td>emergency</td> <td>Emergency Department operations.</td> </tr> </tbody> </table> | | | enumeration | plant | Plant - the key equipment and capabilities needed to operate the facility (e.g. HVAC, cafeteria). | enumeration | security | Security operations for facility (e.g. patrol, surveillance). | enumeration | staffing | Staff-related operations (e.g. medical personnel, support staffing, administrative). | enumeration | emergency | Emergency Department operations. |
| enumeration | plant | Plant - the key equipment and capabilities needed to operate the facility (e.g. HVAC, cafeteria). | | | | | | | | | | | | | |
| enumeration | security | Security operations for facility (e.g. patrol, surveillance). | | | | | | | | | | | | | |
| enumeration | staffing | Staff-related operations (e.g. medical personnel, support staffing, administrative). | | | | | | | | | | | | | |
| enumeration | emergency | Emergency Department operations. | | | | | | | | | | | | | |

Element OperationType / name

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | |
|-------------|--|
| Annotations | The name of the operation that is being reported on (e.g. "Food Services"). |
| Diagram | <pre> classDiagram class FreeTextType { name : FreeTextType <> alternateText : AlternateTextType * 0..oo } FreeTextType < --> alternateText </pre> |
| Type | FreeTextType |
| Properties | content: complex |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <name xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </name> |

Element OperationType / status

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The status of the Operation. |
| Diagram | <pre> classDiagram class StatusType { status : StatusType <> isOK : xs:boolean <> colourStatus : ColourStatusType <> stability : StabilityType <> comment : FreeTextType } StatusType < --> isOK StatusType < --> colourStatus StatusType < --> stability StatusType < --> comment </pre> |
| Type | StatusType |
| Properties | content: complex |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} |
| Children | colourStatus, comment, isOK, stability |
| Instance | <status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status> |

Element OperationType / comment

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | General comment/summary on the Operation. |

| | | | | | |
|------------|--|----------|---------|------------|---|
| Diagram | <pre> classDiagram class FreeTextType { defaultText : LimitedString alternateText : AlternateTextType * } class comment { Type : FreeTextType } FreeTextType < -- comment comment --o alternateText </pre> <p>The diagram shows the UML class <code>FreeTextType</code>. It has two attributes: <code>defaultText</code> of type <code>LimitedString</code> and <code>alternateText</code> of type <code>AlternateTextType</code> (multiplicity 0..oo). A dependency arrow points from the <code>comment</code> class to the <code>FreeTextType</code> class, indicating that <code>comment</code> uses <code>FreeTextType</code>.</p> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1" style="margin-left: 20px;"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | |

Element OperationsType / comment

| | | | | | | | |
|-------------|--|----------|---------|------------|---|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | General comment/summary on all of the operations. | | | | | | |
| Diagram | <pre> classDiagram class FreeTextType { defaultText : LimitedString alternateText : AlternateTextType * } class comment { Type : FreeTextType } FreeTextType < -- comment comment --o alternateText </pre> <p>The diagram shows the UML class <code>FreeTextType</code>. It has two attributes: <code>defaultText</code> of type <code>LimitedString</code> and <code>alternateText</code> of type <code>AlternateTextType</code> (multiplicity 0..oo). A dependency arrow points from the <code>comment</code> class to the <code>FreeTextType</code> class, indicating that <code>comment</code> uses <code>FreeTextType</code>.</p> | | | | | | |
| Type | FreeTextType | | | | | | |
| Properties | <table border="1" style="margin-left: 20px;"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | 1 |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | 1 | | | | | | |
| Model | defaultText , alternateText* | | | | | | |
| Children | alternateText, defaultText | | | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | | | |

Element FacilityType / resourceInformation

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Information about non-staff resources (status, needs, availability for offer) for the facility. |

| | | | | | |
|------------|--|----------|---------|------------|---|
| Diagram | <pre> classDiagram class ResourceInformationType { status : StatusType needs offers comment : FreeTextType ext:extension [0..∞] } resourcelnformation : ResourceInformationType resourcelnformation --> ResourceInformationType note over resourcelnformation: Information about non-staff resources (status, needs, availability for offer) for the facility. </pre> | | | | |
| Type | ResourceInformationType | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">0</td></tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | status , needs{0,1} , offers{0,1} , comment{0,1} , ext:extension* | | | | |
| Children | comment, ext:extension, needs, offers, status | | | | |
| Instance | <pre> <resourceInformation xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:have:2.0" <status>{1,1}</status> <needs>{0,1}</needs> <offers>{0,1}</offers> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </resourceInformation> </pre> | | | | |

Element ResourceInformationType / status

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Overall resource status of the facility. | | | | |
| Diagram | <pre> classDiagram class StatusType { isOK : xs:boolean colourStatus : ColourStatusType stability : StabilityType comment : FreeTextType } status : StatusType status --> StatusType note over status: Overall resource status of the facility. </pre> | | | | |
| Type | StatusType | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">1</td></tr> </table> | content: | complex | minOccurs: | 1 |
| content: | complex | | | | |
| minOccurs: | 1 | | | | |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} | | | | |
| Children | colourStatus, comment, isOk, stability | | | | |

| | |
|----------|--|
| Instance | <pre><status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status></pre> |
|----------|--|

Element ResourceInformationType / needs

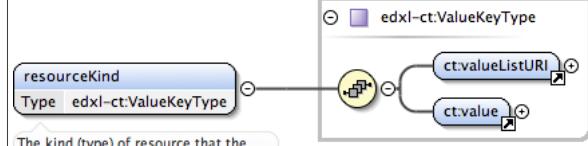
| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Resource Needs. | | | | |
| Diagram | <pre> graph LR needs((needs)) -- "1..∞" --> resourceNeed[resourceNeed Type ResourceQuantityType] </pre> | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | resourceNeed+ | | | | |
| Children | resourceNeed | | | | |
| Instance | <pre><needs xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <resourceNeed>{1,unbounded}</resourceNeed> </needs></pre> | | | | |

Element ResourceInformationType / needs / resourceNeed

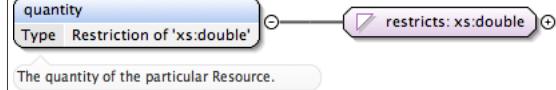
| | | | | | |
|------------|--|----------|---------|------------|-----------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Diagram | <pre> graph LR resourceNeed[resourceNeed Type ResourceQuantityType] -- "1..∞" --> ResourceQuantityType </pre> <p>ResourceQuantityType</p> <ul style="list-style-type: none"> resourceKind Type edxl-ct:ValueKeyType The kind (type) of resource that the quantity refers to. TODO: Provide the URI and key-value. quantity Type Restriction of 'xs:double' The quantity of the particular Resource. resourceSize Type ext:ParameterNameType Unit of measure and size (e.g. 1500 mL). comments Type FreeTextType Textual description of Resource quantity. <p>Type for stating a quantity of a particular kind of resource.</p> | | | | |
| Type | ResourceQuantityType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table> | content: | complex | maxOccurs: | unbounded |
| content: | complex | | | | |
| maxOccurs: | unbounded | | | | |
| Model | resourceKind , quantity , resourceSize , comments{0,1} | | | | |
| Children | comments, quantity, resourceKind, resourceSize | | | | |
| Instance | <pre><resourceNeed xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <resourceKind>{1,1}</resourceKind> <quantity>{1,1}</quantity> <resourceSize xPath="">{1,1}</resourceSize> <comments>{0,1}</comments> </resourceNeed></pre> | | | | |

Element ResourceQuantityType / resourceKind

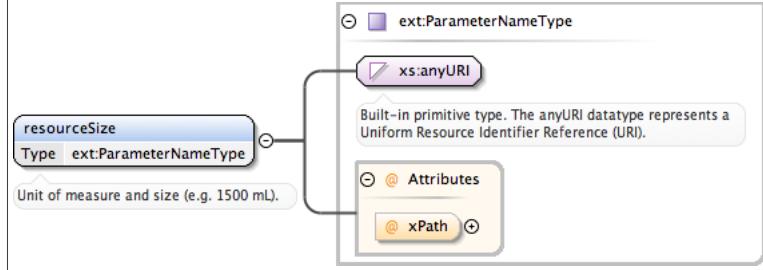
| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The kind (type) of resource that the quantity refers to. TODO: Provide the URI and key-value. |

| | |
|------------|---|
| Diagram |  |
| Type | ct:ValueKeyType |
| Properties | content: complex |
| Model | ct:valueListURI , ct:value |
| Children | ct:value, ct:valueListURI |
| Instance | <pre><resourceKind xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl-ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:valueListURI>{1,1}</edxl-ct:valueListURI> <edxl-ct:value>{1,1}</edxl-ct:value> </resourceKind></pre> |

Element ResourceQuantityType / quantity

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The quantity of the particular Resource. |
| Diagram |  |
| Type | restriction of xs:double |
| Properties | content: simple |
| Facets | minInclusive 0 |

Element ResourceQuantityType / resourceSize

| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
|-------------|---|----------|------|-----|-------|-----------|----------|
| Annotations | Unit of measure and size (e.g. 1500 mL). | | | | | | |
| Diagram |  | | | | | | |
| Type | ext:ParameterNameType | | | | | | |
| Properties | content: complex | | | | | | |
| Attributes | <table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>xPath</td> <td>xs:string</td> <td>optional</td> </tr> </tbody> </table> | QName | Type | Use | xPath | xs:string | optional |
| QName | Type | Use | | | | | |
| xPath | xs:string | optional | | | | | |

Element ResourceQuantityType / comments

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Textual description of Resource quantity. |

| | | | | | |
|------------|---|----------|---------|------------|---|
| Diagram | <pre> classDiagram class FreeTextType { comments : FreeTextType defaultText : LimitedString alternateText : AlternateTextType } comments <--> defaultText comments <--> alternateText </pre> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">0</td></tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comments xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comments> </pre> | | | | |

Element ResourceInformationType / offers

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Resource Offers (resources that can be made available to other Facilities). | | | | |
| Diagram | <pre> classDiagram class offers { resourceOffer : ResourceQuantityType } offers <--> resourceOffer </pre> | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">0</td></tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | resourceOffer+ | | | | |
| Children | resourceOffer | | | | |
| Instance | <pre> <offers xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <resourceOffer>{1,unbounded}</resourceOffer> </offers> </pre> | | | | |

Element ResourceInformationType / offers / resourceOffer

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | |
|------------|---|
| Diagram | <pre> classDiagram class ResourceQuantityType { resourceOffer : ResourceQuantityType resourceKind : edxl-ct:ValueType quantity : Restriction of xs:double resourceSize : ext:ParameterNameType comments : FreeTextType } resourceOffer <--> ResourceQuantityType </pre> |
| Type | ResourceQuantityType |
| Properties | content: complex maxOccurs: unbounded |
| Model | resourceKind , quantity , resourceSize , comments{0,1} |
| Children | comments, quantity, resourceKind, resourceSize |
| Instance | <pre> <resourceOffer xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <resourceKind>{1,1}</resourceKind> <quantity>{1,1}</quantity> <resourceSize xPath="">{1,1}</resourceSize> <comments>{0,1}</comments> </resourceOffer> </pre> |

Element ResourceInformationType / comment

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Textual description of Resource situation. |
| Diagram | <pre> classDiagram class FreeTextType { comment : FreeTextType defaultText : LimitedString alternateText : AlternateTextType } comment <--> FreeTextType </pre> |
| Type | FreeTextType |
| Properties | content: complex minOccurs: 0 maxOccurs: 1 |
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> |

Element FacilityType / staffing

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

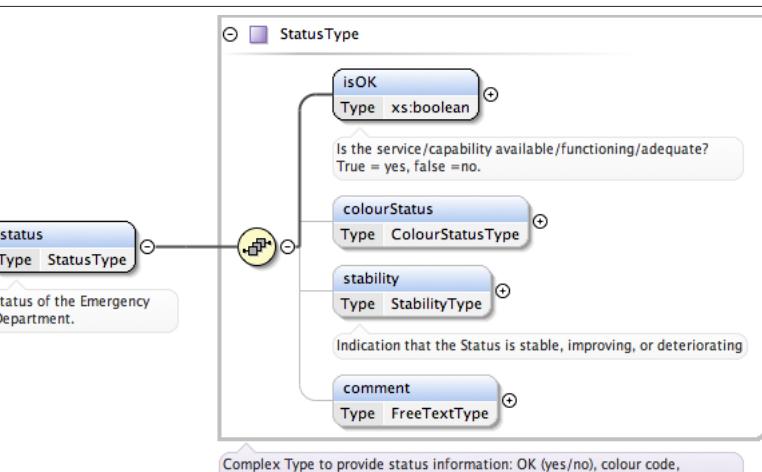
| | | | | | |
|-------------|---|----------|---------|------------|---|
| Annotations | Staffing provides an indication of the staffing status and any needs or offers of this facility. | | | | |
| Diagram | | | | | |
| Type | ResourceInformationType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | status , needs{0,1} , offers{0,1} , comment{0,1} , ext:extension* | | | | |
| Children | comment, ext:extension, needs, offers, status | | | | |
| Instance | <pre><staffing xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension"> <status>{1,1}</status> <needs>{0,1}</needs> <offers>{0,1}</offers> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </staffing></pre> | | | | |

Element FacilityType / emergencyDepartment

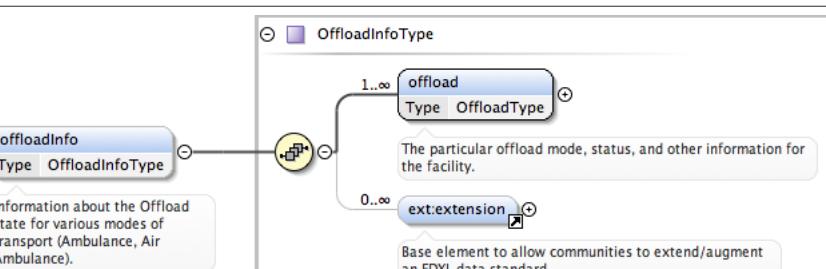
| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Report on the emergency department status for the organization. |
| Diagram | |
| Type | EmergencyDepartmentType |

| | |
|------------|--|
| Properties | content: complex minOccurs: 0 |
| Model | status , offloadInfo{0,1} , traffic{0,1} , triageCapacity{0,1} |
| Children | offloadInfo, status, traffic, triageCapacity |
| Instance | <pre><emergencyDepartment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <status>{1,1}</status> <offloadInfo>{0,1}</offloadInfo> <traffic>{0,1}</traffic> <triageCapacity>{0,1}</triageCapacity> </emergencyDepartment></pre> |

Element EmergencyDepartmentType / status

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Status of the Emergency Department. |
| Diagram |  |
| Type | StatusType |
| Properties | content: complex minOccurs: 1 |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} |
| Children | colourStatus, comment, isOK, stability |
| Instance | <pre><status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status></pre> |

Element EmergencyDepartmentType / offloadInfo

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Information about the Offload state for various modes of transport (Ambulance, Air Ambulance). |
| Diagram |  |
| Type | OffloadInfoType |
| Properties | content: complex |

| | |
|----------|--|
| | minOccurs: 0 |
| Model | offload+ , ext:extension* |
| Children | ext:extension, offload |
| Instance | <pre><offloadInfo xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension" <offload>{1,unbounded}</offload> <ext:extension>{0,unbounded}</ext:extension> </offloadInfo></pre> |

Element offloadInfoType / offload

| | | | | | | | |
|-------------|---|----------|---------|------------|---|------------|-----------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | The particular offload mode, status, and other information for the facility. | | | | | | |
| Diagram | <pre> classDiagram class OffloadType { kind: OffloadKind offloadMinutes: xs:integer offloadState: OffloadStateKind offloadColourCode: ColourStatusType comment: FreeTextType } class offload { Type: OffloadType } offload "1..>" OffloadType </pre> | | | | | | |
| Type | OffloadType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table> | content: | complex | minOccurs: | 1 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 1 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | kind , offloadMinutes , offloadState{0,1} , offloadColourCode{0,1} , comment{0,1} | | | | | | |
| Children | comment, kind, offloadColourCode, offloadMinutes, offloadState | | | | | | |
| Instance | <pre><offload xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <kind>{1,1}</kind> <offloadMinutes>{1,1}</offloadMinutes> <offloadState>{0,1}</offloadState> <offloadColourCode>{0,1}</offloadColourCode> <comment>{0,1}</comment> </offload></pre> | | | | | | |

Element OffloadType / kind

| | | | | | |
|-------------|---|----------|--------|----------|------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The mode of transport for offload (land, air, other). | | | | |
| Diagram | <pre> classDiagram class OffloadType { kind: OffloadKind } class OffloadKind OffloadType "1..>" OffloadKind </pre> | | | | |
| Type | OffloadKind | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>default:</td> <td>land</td> </tr> </table> | content: | simple | default: | land |
| content: | simple | | | | |
| default: | land | | | | |

| | | |
|--------|-------------|-------|
| Facets | enumeration | land |
| | enumeration | air |
| | enumeration | other |

Element OffloadType / offloadMinutes

| | | | | | | | |
|-------------|--|----------|--------|------------|---|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | Average offload time in minutes. | | | | | | |
| Diagram | | | | | | | |
| Type | xs:integer | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table> | content: | simple | minOccurs: | 1 | maxOccurs: | 1 |
| content: | simple | | | | | | |
| minOccurs: | 1 | | | | | | |
| maxOccurs: | 1 | | | | | | |

Element OffloadType / offloadState

| | | | | | | | |
|-------------|---|-------------|--------|-------------|---------|----------|--------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Diagram | | | | | | | |
| Type | OffloadStateKind | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>normal</td> </tr> </table> | content: | simple | minOccurs: | 0 | default: | normal |
| content: | simple | | | | | | |
| minOccurs: | 0 | | | | | | |
| default: | normal | | | | | | |
| Facets | <table border="1"> <tr> <td>enumeration</td> <td>normal</td> </tr> <tr> <td>enumeration</td> <td>delayed</td> </tr> </table> | enumeration | normal | enumeration | delayed | | |
| enumeration | normal | | | | | | |
| enumeration | delayed | | | | | | |

Element OffloadType / offloadColourCode

| | | | | | |
|------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Diagram | | | | | |
| Type | ColourStatusType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | colourCode , statusDescription{0,1} | | | | |
| Children | colourCode, statusDescription | | | | |
| Instance | <pre><offloadColourCode xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <colourCode>{1,1}</colourCode> <statusDescription>{0,1}</statusDescription> </offloadColourCode></pre> | | | | |

Element OffloadType / comment

| | | | | | |
|------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Diagram | <pre> classDiagram class FreeTextType { defaultText : LimitedString alternateText : AlternateTextType } class comment { Type FreeTextType } comment --> FreeTextType </pre> <p>The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute).</p> <p>Alternate language representation.</p> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | |

Element EmergencyDepartmentType / traffic

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Ability of this emergency department to receive patients via emergency medical services. | | | | |
| Diagram | <pre> classDiagram class TrafficType { status : TrafficStatusKind colourStatus : ColourStatusType reason : FreeTextType comment : FreeTextType } class traffic { Type TrafficType } traffic --> TrafficType </pre> <p>The operating status of the Emergency Department (normal -> advisory -> closed).</p> <p>Colour-code status for the Emergency Department.</p> <p>Needed (handled by Colour Code?) It is used to report the contributing factor to an EMSTraffic Status.</p> <p>General comment/summary on the traffic status</p> <p>Ability of this emergency department to receive patients via emergency medical services.</p> | | | | |
| Type | TrafficType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | status , colourStatus , reason{0,1} , comment{0,1} | | | | |
| Children | colourStatus, comment, reason, status | | | | |
| Instance | <pre> <traffic xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <status>{1,1}</status> <colourStatus>{1,1}</colourStatus> <reason>{0,1}</reason> <comment>{0,1}</comment> </traffic> </pre> | | | | |

Element TrafficType / status

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | | | |
|-------------|---|----------|---|
| Annotations | The operating status of the Emergency Department (normal -> advisory -> closed). | | |
| Diagram | <pre> classDiagram class status { <<TrafficStatusKind>> } class TrafficStatusKind status < -- TrafficStatusKind </pre> <p>The operating status of the Emergency Department (normal -> advisory -> closed).</p> | | |
| Type | TrafficStatusKind | | |
| Properties | content: simple | | |
| Facets | enumeration | normal | Traffic is at levels that are within norms. |
| | enumeration | advisory | Traffic levels are high enough to warrant notifying the community that the facility is experiencing higher than expected traffic. |
| | enumeration | closed | Facility is not accepting patient traffic. |

Element TrafficType / colourStatus

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Colour-code status for the Emergency Department. |
| Diagram | <pre> classDiagram class colourStatus { <<ColourStatusType>> } class ColourStatusType colourStatus < -- ColourStatusType </pre> <p>Colour-code status for the Emergency Department.</p> <p>ColourStatusType</p> <ul style="list-style-type: none"> colourCode (Type: ColourCodeDefaultType) <ul style="list-style-type: none"> Colour (text-based) of the status. By default triage colours of green, yellow, orange, red, black are supported. TODO.... statusDescription (Type: FreeTextType) <ul style="list-style-type: none"> Human-readable text describing the reason for selection of the particular colour-code. <p>Type that allows the structured use of colour-codes to portray state.</p> |
| Type | ColourStatusType |
| Properties | content: complex |
| Model | colourCode , statusDescription{0,1} |
| Children | colourCode, statusDescription |
| Instance | <colourStatus xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <colourCode>{1,1}</colourCode> <statusDescription>{0,1}</statusDescription> </colourStatus> |

Element TrafficType / reason

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Needed (handled by Colour Code?) It is used to report the contributing factor to an EMSTraffic Status. | | | | |
| Diagram | <pre> classDiagram class reason { <<FreeTextType>> } class FreeTextType reason < -- FreeTextType </pre> <p>Needed (handled by Colour Code?) It is used to report the contributing factor to an EMSTraffic Status.</p> <p>FreeTextType</p> <ul style="list-style-type: none"> defaultText (Type: LimitedString) <ul style="list-style-type: none"> The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute). alternateText (Type: AlternateTextType) <ul style="list-style-type: none"> Alternate language representation. | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |

| | |
|----------|--|
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre><reason xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </reason></pre> |

Element **TrafficType / comment**

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | General comment/summary on the traffic status | | | | |
| Diagram | <pre> classDiagram class FreeTextType { <<FreeTextType>> <<comment>> <<alternateText>> } comment --o FreeTextType alternateText --o FreeTextType </pre> <p>The diagram shows the FreeTextType class with two associations. One association, labeled comment, connects to the comment element. Another association, labeled alternateText, connects to the alternateText element. Each association has a multiplicity of 0..oo. A note next to the comment association states: "General comment/summary on the traffic status". A note next to the alternateText association states: "Alternate language representation.".</p> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre><comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment></pre> | | | | |

Element **EmergencyDepartmentType / triageCapacity**

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | The number of each triage patient type the hospital can accept. | | | | |
| Diagram | <pre> classDiagram class TriageCapacityType { <<TriageCapacityType>> <<triageCapacity>> <<triageCount>> } triageCapacity --o TriageCapacityType triageCount --o TriageCapacityType </pre> <p>The diagram shows the TriageCapacityType class with two associations. One association, labeled triageCapacity, connects to the triageCapacity element. Another association, labeled triageCount, connects to the triageCount element. The triageCapacity association has a multiplicity of 1..oo. A note next to the triageCapacity association states: "The number of each triage patient type the hospital can accept.". A note next to the triageCount association states: "The Count for a particular triage level.".</p> | | | | |
| Type | TriageCapacityType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | triageCount+ | | | | |
| Children | triageCount | | | | |
| Instance | <pre><triageCapacity xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <triageCount>{1,unbounded}</triageCount> </triageCapacity></pre> | | | | |

Element **TriageCapacityType / triageCount**

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The Count for a particular triage level. |

| | | | | | | | |
|------------|--|----------|---------|------------|---|------------|-----------|
| Diagram | <pre> classDiagram class TriageCountType { code : TriageColourCodeType count : xs:int alternateCodeValue : edxl-ct:ValueKeyType[0..∞] comment : FreeTextType } TriageCountType "1" --> "TriageCountType" TriageCountType "1" --> "TriageColourCodeType" </pre> <p>The diagram shows the UML class <code>TriageCountType</code>. It has four attributes: <code>code</code> (Type <code>TriageColourCodeType</code>), <code>count</code> (Type <code>xs:int</code>), <code>alternateCodeValue</code> (Type <code>edxl-ct:ValueKeyType</code> with multiplicity <code>0..∞</code>), and <code>comment</code> (Type <code>FreeTextType</code>). A self-referencing association is shown from <code>TriageCountType</code> to itself.</p> | | | | | | |
| Type | <code>TriageCountType</code> | | | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">minOccurs:</td><td style="padding: 2px;">1</td></tr> <tr> <td style="padding: 2px;">maxOccurs:</td><td style="padding: 2px;">unbounded</td></tr> </table> | content: | complex | minOccurs: | 1 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 1 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | <code>code , count , alternateCodeValue* , comment{0,1}</code> | | | | | | |
| Children | <code>alternateCodeValue, code, comment, count</code> | | | | | | |
| Instance | <pre> <triageCount xmlns="urn: oasis:names:tc:emergency:edxl:have:2.0"> <code>{1,1}</code> <count>{1,1}</count> <alternateCodeValue>{0,unbounded}</alternateCodeValue> <comment>{0,1}</comment> </triageCount> </pre> | | | | | | |

Element `TriageCountType / code`

| | | | | | | | | | | | | | |
|--------------------------|---|------------------------|--------|------------------------|------|--------------------------|---|--------------------------|--|--------------------------|---|--------------------------|-----------------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | |
| Annotations | <p>Triage Colour Codes (RED, YELLOW, GREEN, BLACK, none) for capacity purposes. The list of values must be from the list identified in <code>TriageCodeListURN</code>. Default Values - red: Number of victims with immediate needs - yellow: Number of victims with delayed needs - green: Number of victims with minor needs - black: Number of deceased victims. If a <code>TriageCountType/code</code> value is specified, a <code>TriageCountType/count</code> element must be specified.</p> | | | | | | | | | | | | |
| Diagram | <pre> classDiagram class TriageColourCodeType { code : xs:token ... } TriageColourCodeType "1" --> "TriageColourCodeType" </pre> <p>The diagram shows the UML class <code>TriageColourCodeType</code>. It has an attribute <code>code</code> of type <code>xs:token</code>. A self-referencing association is shown from <code>TriageColourCodeType</code> to itself.</p> | | | | | | | | | | | | |
| Type | <code>TriageColourCodeType</code> | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • <code>xs:token</code> • <code>ct:EDXLStringType</code> • <code>TriageColourCodeType</code> | | | | | | | | | | | | |
| Properties | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">simple</td></tr> </table> | content: | simple | | | | | | | | | | |
| content: | simple | | | | | | | | | | | | |
| Facets | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><code>minLength</code></td><td style="padding: 2px;">1</td></tr> <tr> <td style="padding: 2px;"><code>maxLength</code></td><td style="padding: 2px;">1023</td></tr> <tr> <td style="padding: 2px;"><code>enumeration</code></td><td style="padding: 2px;">red RED Triage - Immediate attention for Triage.</td></tr> <tr> <td style="padding: 2px;"><code>enumeration</code></td><td style="padding: 2px;">yellow YELLOW Triage - Needs medical attention after RED/Immediate.</td></tr> <tr> <td style="padding: 2px;"><code>enumeration</code></td><td style="padding: 2px;">green GREEN Triage - Walking wounded or self-treatable</td></tr> <tr> <td style="padding: 2px;"><code>enumeration</code></td><td style="padding: 2px;">black BLACK Triage - Lost/Dead</td></tr> </table> | <code>minLength</code> | 1 | <code>maxLength</code> | 1023 | <code>enumeration</code> | red RED Triage - Immediate attention for Triage. | <code>enumeration</code> | yellow YELLOW Triage - Needs medical attention after RED/Immediate. | <code>enumeration</code> | green GREEN Triage - Walking wounded or self-treatable | <code>enumeration</code> | black BLACK Triage - Lost/Dead |
| <code>minLength</code> | 1 | | | | | | | | | | | | |
| <code>maxLength</code> | 1023 | | | | | | | | | | | | |
| <code>enumeration</code> | red RED Triage - Immediate attention for Triage. | | | | | | | | | | | | |
| <code>enumeration</code> | yellow YELLOW Triage - Needs medical attention after RED/Immediate. | | | | | | | | | | | | |
| <code>enumeration</code> | green GREEN Triage - Walking wounded or self-treatable | | | | | | | | | | | | |
| <code>enumeration</code> | black BLACK Triage - Lost/Dead | | | | | | | | | | | | |

Element TriageCountType / count

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The number of patients of this code type. |
| Diagram | <pre> classDiagram class count { <<Type Restriction of 'xs:int'>> } class xsInt { <<Restriction of xs:int>> } count "0..1" -- "1" xsInt : restricts </pre> <p>The number of patients of this code type.</p> |
| Type | restriction of xs:int |
| Properties | content: simple |
| Facets | minInclusive 0 |

Element TriageCountType / alternateCodeValue

| | | | | | | | |
|-------------|---|----------|---------|------------|---|------------|-----------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Annotations | There are a large number of Triage systems in use. Many usenumbering systems (http://en.wikipedia.org/wiki/Triage#Tags) and colours. The premise of HAVE is that we will share the general state with the broad emergency management community who may not know the intimate details of a triage system, but understand the general concepts that RED=urgent, Green=walking wounded, Black=Dead/Lost (already dead or untreatable). The alternateCodeValues element is intended to be used by these systems. Providing the ValueListURI and Value will allow mapping of external systems to the base HAVE Triage colour codes. | | | | | | |
| Diagram | <pre> classDiagram class alternateCodeValue { <<Type edxl-ct:ValueKeyType>> } class edxl-ct { <<ValueKeyType>> } alternateCodeValue --> edxl-ct class ct { <<ValueListURI>> } class ct { <<value>> } edxl-ct --> ct edxl-ct --> ct </pre> <p>There are a large number of Triage systems in use. Many usenumbering systems (http://en.wikipedia.org/wiki/Triage#Tags)...</p> | | | | | | |
| Type | ct:ValueKeyType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | unbounded |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | unbounded | | | | | | |
| Model | ct:valueListURI , ct:value | | | | | | |
| Children | ct:value, ct:valueListURI | | | | | | |
| Instance | <pre> <alternateCodeValue xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:edxl- ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"> <edxl-ct:valueListURI>{1,1}</edxl-ct:valueListURI> <edxl-ct:value>{1,1}</edxl-ct:value> </alternateCodeValue> </pre> | | | | | | |

Element TriageCountType / comment

| | | | | | | | |
|------------|--|----------|---------|------------|---|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | |
| Diagram | <pre> classDiagram class comment { <<Type FreeTextType>> } class FreeTextType { <<FreeTextType>> } comment --> FreeTextType class defaultText { <<Type LimitedString>> } FreeTextType --> defaultText class alternateText { <<Type AlternateTextType>> } FreeTextType --> alternateText </pre> <p>The text value that uses the message default language (defined at in the HAVE message defaultLanguage attribute).</p> <p>Alternate language representation.</p> | | | | | | |
| Type | FreeTextType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | 1 |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | 1 | | | | | | |

| | |
|----------|--|
| Model | defaultText , alternateText* |
| Children | alternateText, defaultText |
| Instance | <pre><comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment></pre> |

Element FacilityType / traumaCenter

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Type of the trauma center for the organization. | | | | |
| Diagram | | | | | |
| Type | TraumaCenterType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | (adult , pediatric{0,1}) pediatric | | | | |
| Children | adult, pediatric | | | | |
| Instance | <pre><traumaCenter xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <adult>{1,1}</adult> <pediatric>{0,1}</pediatric> <pediatric>{1,1}</pediatric> </traumaCenter></pre> | | | | |

Element TraumaCenterType / adult

| | | | |
|-------------|---|----------|---------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Annotations | Adult Trauma Services detail. | | |
| Diagram | | | |
| Type | TraumaCenterLevelType | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> </table> | content: | complex |
| content: | complex | | |

| | |
|----------|--|
| Model | serviceLevel , status , comment{0,1} , ext:extension* |
| Children | comment, ext:extension, serviceLevel, status |
| Instance | <pre><adult xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension:1" <serviceLevel>{1,1}</serviceLevel> <status>{1,1}</status> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </adult></pre> |

Element TraumaCenterLevelType / serviceLevel

| | | | | | | | | | | | | | |
|-------------|---|-------------------------|--------|-------------------------|-------------|--------|-------------------------|-------------|--------|-------------------------|-------------|-----------|-------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | |
| Annotations | Trauma Center Level - 1 through 3 (I through III) per American College of Surgeons. Beyond Level 3 there is no global standard but this is a good first approximation. | | | | | | | | | | | | |
| Diagram | | | | | | | | | | | | | |
| Type | TraumaCenterLevelKind | | | | | | | | | | | | |
| Properties | content: simple | | | | | | | | | | | | |
| Facets | <table> <tr> <td>enumeration</td> <td>level1</td> <td>Level 1 Trauma Services</td> </tr> <tr> <td>enumeration</td> <td>level2</td> <td>Level 2 Trauma Services</td> </tr> <tr> <td>enumeration</td> <td>level3</td> <td>Level 3 Trauma Services</td> </tr> <tr> <td>enumeration</td> <td>no-trauma</td> <td>Level 4 Trauma Services</td> </tr> </table> | enumeration | level1 | Level 1 Trauma Services | enumeration | level2 | Level 2 Trauma Services | enumeration | level3 | Level 3 Trauma Services | enumeration | no-trauma | Level 4 Trauma Services |
| enumeration | level1 | Level 1 Trauma Services | | | | | | | | | | | |
| enumeration | level2 | Level 2 Trauma Services | | | | | | | | | | | |
| enumeration | level3 | Level 3 Trauma Services | | | | | | | | | | | |
| enumeration | no-trauma | Level 4 Trauma Services | | | | | | | | | | | |

Element TraumaCenterLevelType / status

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The status of the Facility Trauma Center. |
| Diagram | |
| Type | StatusType |
| Properties | content: complex |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} |
| Children | colourStatus, comment, isOK, stability |
| Instance | <pre><status xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <isOk>{1,1}</isOk> <colourStatus>{0,1}</colourStatus> <stability>{0,1}</stability> <comment>{0,1}</comment> </status></pre> |

Element TraumaCenterLevelType / comment

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | | | | | | | |
|-------------|---|----------|---------|------------|---|------------|---|
| Annotations | General comment/summary on the trauma center status | | | | | | |
| Diagram | <pre> classDiagram class FreeTextType { comment : FreeTextType defaultText : LimitedString } FreeTextType "0..oo" --> alternateText : AlternateTextType alternateText --> "Alternate language representation." </pre> | | | | | | |
| Type | FreeTextType | | | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table> | content: | complex | minOccurs: | 0 | maxOccurs: | 1 |
| content: | complex | | | | | | |
| minOccurs: | 0 | | | | | | |
| maxOccurs: | 1 | | | | | | |
| Model | defaultText , alternateText* | | | | | | |
| Children | alternateText, defaultText | | | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | | | |

Element TraumaCenterType / pediatric

| | | | | | |
|-------------|---|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Pediatric Trauma Center details. | | | | |
| Diagram | <pre> classDiagram class TraumaCenterLevelType { pediatric : TraumaCenterLevelType serviceLevel : TraumaCenterLevelKind status : StatusType } TraumaCenterLevelType "0..oo" --> comment : FreeTextType comment --> "General comment/summary on the trauma center status" TraumaCenterLevelType --> ext:extension ext:extension --> "Base element to allow communities to extend/augment an EDXL data standard" </pre> | | | | |
| Type | TraumaCenterLevelType | | | | |
| Properties | <table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | serviceLevel , status , comment{0,1} , ext:extension* | | | | |
| Children | comment, ext:extension, serviceLevel, status | | | | |
| Instance | <pre> <pediatric xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0" xmlns:ext="urn:oasis:names:tc:emergency:edxl:extension"> <serviceLevel>{1,1}</serviceLevel> <status>{1,1}</status> <comment>{0,1}</comment> <ext:extension>{0,unbounded}</ext:extension> </pediatric> </pre> | | | | |

Element FacilityType / comment

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | | | | | |
|------------|--|----------|---------|------------|---|
| Diagram | <pre> classDiagram class FreeTextType { <<comment Type FreeTextType>> defaultText : LimitedString alternateText : AlternateTextType } </pre> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | |

Element HAVE / comment

| | | | | | |
|-------------|--|----------|---------|------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Provides context to the HAVE report. | | | | |
| Diagram | <pre> classDiagram class FreeTextType { <<comment Type FreeTextType>> defaultText : LimitedString alternateText : AlternateTextType } </pre> <p>Provides context to the HAVE report.</p> | | | | |
| Type | FreeTextType | | | | |
| Properties | <table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table> | content: | complex | minOccurs: | 0 |
| content: | complex | | | | |
| minOccurs: | 0 | | | | |
| Model | defaultText , alternateText* | | | | |
| Children | alternateText, defaultText | | | | |
| Instance | <pre> <comment xmlns="urn:oasis:names:tc:emergency:edxl:have:2.0"> <defaultText>{1,1}</defaultText> <alternateText language="">{0,unbounded}</alternateText> </comment> </pre> | | | | |

Complex Type(s)

Complex Type OrganizationInformationType

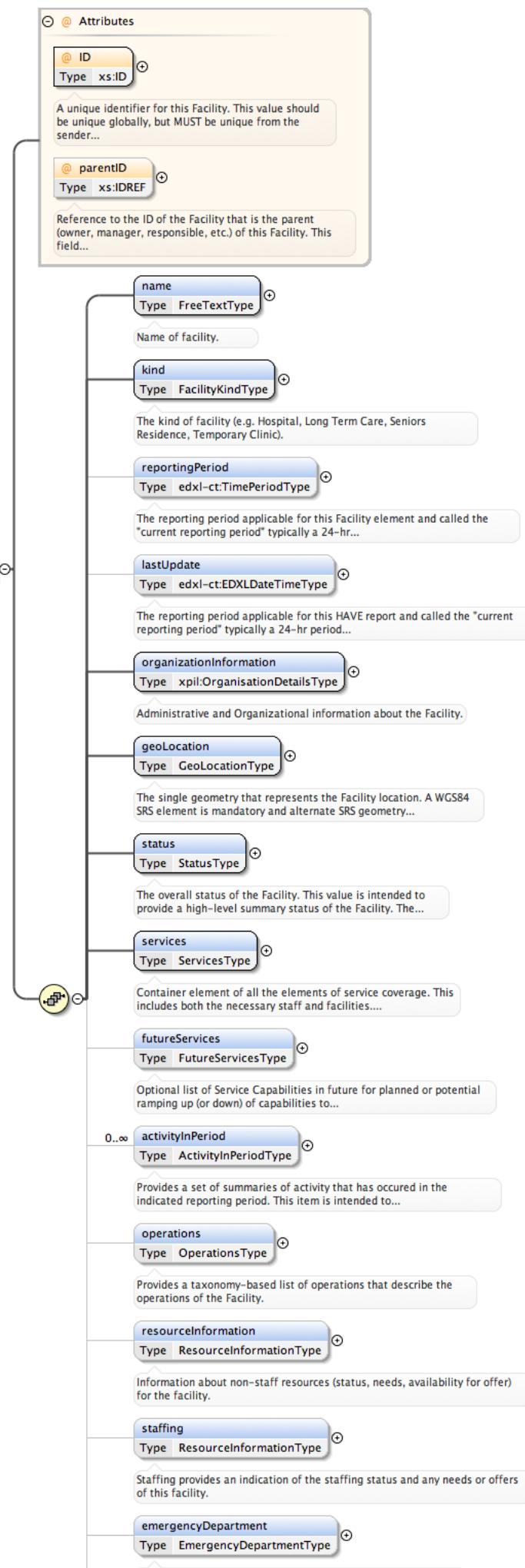
| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The container element for organization information elements. |

| | |
|----------------|---|
| Diagram | <pre> classDiagram class OrganizationInformationType { <<Base Type xpl:OrganisationDetailsType>> "The container element for organization information elements." } class xpl:OrganisationDetailsType { "A container for defining the unique characteristics of an organisation only" n:OrganisationName "1..∞" Addresses ContactNumbers ElectronicAddressIdentifiers OrganisationInfo } OrganizationInformationType < -- xpl:OrganisationDetailsType </pre> |
| Type | extension of OrganisationDetailsType |
| Type hierarchy | <ul style="list-style-type: none"> • OrganisationDetailsType • OrganizationInformationType |
| Used by | Element HAVE/organizationInformation |
| Model | OrganisationName+, Addresses{0,1}, ContactNumbers{0,1}, ElectronicAddressIdentifiers{0,1}, OrganisationInfo{0,1} |
| Children | Addresses, ContactNumbers, ElectronicAddressIdentifiers, OrganisationInfo, OrganisationName |

Complex Type FacilityType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

Diagram



| | | | |
|------------|---|--|------------|
| Used by | Element HAVE/facility | | |
| Model | name , kind , reportingPeriod{0,1} , lastUpdate{0,1} , organizationInformation , geoLocation , status , services , futureServices{0,1} , activityInPeriod* , operations{0,1} , resourceInformation{0,1} , staffing{0,1} , emergencyDepartment{0,1} , traumaCenter{0,1} , comment{0,1} | | |
| Children | activityInPeriod, comment, emergencyDepartment, futureServices, geoLocation, kind, lastUpdate, name, operations, organizationInformation, reportingPeriod, resourceInformation, services, staffing, status, traumaCenter | | |
| Attributes | QName | Type | Use |
| | ID | xs:ID | required |
| | | A unique identifier for this Facility. This value should be unique globally, but MUST be unique from the sender perspective. | |
| | parentID | xs:IDREF | optional |
| | | Reference to the ID of the Facility that is the parent (owner, manager, responsible, etc.) of this Facility. This field is optional and used to provide a hierarchy for formal facility organizations. | |

Complex Type FreeTextType

| | | | |
|-----------|---|--|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | | | |
| Used by | Elements ActivityInPeriodType/comment, BedCapacityType/comment, ColourStatusType/statusDescription, FacilityType/comment, FacilityType/name, FutureServicesType/comment, HAVE/comment, OffloadType/comment, OperationType/comment, OperationType/name, OperationsType/comment, ResourceInformationType/comment, ResourceQuantityType/comments, ServiceType/comment, ServiceType/name, ServicesType/comment, StatusType/comment, TrafficType/comment, TrafficType/reason, TraumaCenterLevelType/comment, TriageCountType/comment | | |
| Model | defaultText , alternateText* | | |
| Children | alternateText, defaultText | | |

Complex Type AlternateTextType

| | | | |
|----------------|---|--|------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | | | |
| Type | extension of LimitedString | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:string • LimitedString • AlternateTextType | | |
| Used by | Element FreeTextType/alternateText | | |
| Attributes | QName | Type | Use |
| | language | xs:string | required |
| | | Language code for the text in this element. Code MUST comply with RFC3066. | |

Complex Type GeoLocationType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> classDiagram class GeoLocationType class wgs84Location { <<Extension of 'edxl-gsf:EDXLGeoLocationType'>> "The location of the facility in WGS84 coordinates. The values in this element must use the WGS84 (EPSG:4326) values...." } class geoLocationExtended { <<Extension of 'edxl-gsf:EDXLGeoLocationType'>> "The location of the facility in non-WGS84 (EPSG:4326) coordinates. These alternate (and optional) coordinates are..." } GeoLocationType --> wgs84Location GeoLocationType --> geoLocationExtended </pre> |
| Used by | Element FacilityType/geoLocation |
| Model | wgs84Location , geoLocationExtended* |
| Children | geoLocationExtended, wgs84Location |

Complex Type StatusType

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Complex Type to provide status information: OK (yes/no), colour code, Stability, and commentary. |
| Diagram | <pre> classDiagram class StatusType class isOK { <<xs:boolean>> "Is the service/capability available/functioning/adequate? True = yes, false =no." } class colourStatus { <<ColourStatusType>> } class stability { <<StabilityType>> "Indication that the Status is stable, improving, or deteriorating" } class comment { <<FreeTextType>> } StatusType --> isOK StatusType --> colourStatus StatusType --> stability StatusType --> comment </pre> |
| Used by | Elements EmergencyDepartmentType/status, FacilityType/status, OperationType/status, ResourceInformationType/status, ServiceType/status, TraumaCenterLevelType/status |
| Model | isOk , colourStatus{0,1} , stability{0,1} , comment{0,1} |
| Children | colourStatus, comment, isOK, stability |

Complex Type ColourStatusType

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Type that allows the structured use of colour-codes to portray state. |
| Diagram | <pre> classDiagram class ColourStatusType class colourCode { <<ColourCodeDefaultType>> "Colour (text-based) of the status. By default triage colours of green, yellow, orange, red, black are supported. TODO:..." } class statusDescription { <<FreeTextType>> "Human-readable text describing the reason for selection of the particular colour-code." } ColourStatusType --> colourCode ColourStatusType --> statusDescription </pre> |
| Used by | Elements OffloadType/offloadColourCode, StatusType/colourStatus, TrafficType/colourStatus |
| Model | colourCode , statusDescription{0,1} |
| Children | colourCode, statusDescription |

Complex Type ServicesType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | |
|----------|---|
| Diagram | <pre> classDiagram class ServicesType class ServiceType { <<ServiceListItem provides a description of a particular service - availability, capacity, and status.>> <<General comment/summary on all of the services>> } ServicesType "0..1" -- "1..infinity" ServiceType : service </pre> |
| Used by | Element FacilityType/services |
| Model | service+ , comment{0,1} |
| Children | comment, service |

Complex Type ServiceType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Extensible Service Type for providing detail on a health Service that the Facility provides. |
| Diagram | <pre> classDiagram class ServiceType { <<Extensible Service Type for providing detail on a health Service that the Facility provides.>> name Type FreeTextType code Type Restriction of 'ServiceCodeDefaultType' status Type StatusType externalCode Type edxl-ct:ValueKeyType bedCapacity Type BedCapacityType capacity Type CapacityType comment Type FreeTextType ext:extension } </pre> |
| Used by | Elements FutureServicesType/service, ServicesType/service |
| Model | name , code , status , externalCode* , bedCapacity{0,1} , capacity{0,1} , comment{0,1} , ext:extension* |
| Children | bedCapacity, capacity, code, comment, ext:extension, externalCode, name, status |

Complex Type BedCapacityType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Top level complex schema type defining bed capacity counts (available/baseline) given a specific type of bed. |

| | |
|----------|--|
| Diagram | <pre> classDiagram class BedCapacityType { <<Top level complex schema type defining bed capacity counts (available/baseline) given a specific type of bed.>> } class availableCount { <<The number of vacant/available beds to which patients can be immediately supported. These must include supporting...>> } class baselineCount { <<The maximum (baseline) number of beds in this category.>> } class comment { <<Human-readable description of the service capacity for this service. This value can be used to explain any specific...>> } BedCapacityType < -- availableCount BedCapacityType < -- baselineCount BedCapacityType < -- comment </pre> |
| Used by | Element ServiceType/bedCapacity |
| Model | availableCount , baselineCount{0,1} , comment{0,1} |
| Children | availableCount, baselineCount, comment |

Complex Type CapacityType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Extensible list (name/value pair) for Service capacity. See the HAVE 2.0 standard document for a suggested list of capacities. |
| Diagram | <pre> classDiagram class CapacityType { <<Extensible list (name/value pair) for Service capacity. See the HAVE 2.0 standard document for a suggested list of...>> } class capacity { <<capacity Type ext:ParameterValueType A parameter value for a capacity entry.>> } class capacityURI { <<capacityURI Type edxl-ct:ValueListURIType A URI reference to a list of capacity entries.>> } CapacityType < -- capacity CapacityType < -- capacityURI </pre> |
| Used by | Element ServiceType/capacity |
| Model | capacity , capacityURI{0,1} |
| Children | capacity, capacityURI |

Complex Type FutureServicesType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> classDiagram class FutureServicesType { <<FutureServicesType provides a list of services available at a facility. It includes information about each service such as availability, capacity, and status. It also includes a general comment/summary on the all of the future services.>> } class service { <<ServiceListItem provides a description of a particular service – availability, capacity, and status.>> } class comment { <<comment Type FreeTextType General comment/summary on the all of the future services.>> } FutureServicesType < -- service FutureServicesType < -- comment </pre> |
| Used by | Element FacilityType/futureServices |
| Model | service+ , comment{0,1} |
| Children | comment, service |

Complex Type ActivityInPeriodType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | ActivityInPeriodType gathers information about the admissions, discharges, and deaths in a time period. |

| | |
|----------|--|
| Diagram | <pre> classDiagram class ActivityInPeriodType { reportingPeriod "1..>" operation admissions xs:int discharges xs:int deaths xs:int comment FreeTextType } class reportingPeriod { Type edxl-ct:TimePeriodType } class admissions { Type xs:int Default 0 } class discharges { Type xs:int Default 0 } class deaths { Type xs:int Default 0 } class comment { Type FreeTextType } </pre> <p>ActivityInPeriodType gathers information about the admissions, discharges, and deaths in a time period.</p> |
| Used by | Element FacilityType/activityInPeriod |
| Model | reportingPeriod{0,1} , admissions , discharges , deaths , comment{0,1} |
| Children | admissions, comment, deaths, discharges, reportingPeriod |

Complex Type OperationsType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> classDiagram class OperationsType { 1..> operation OperationType comment FreeTextType } class operation { Type OperationType } class comment { Type FreeTextType } </pre> <p>OperationsType provides information about the operations provided by the facility.</p> |
| Used by | Element FacilityType/operations |
| Model | operation+ , comment{0,1} |
| Children | comment, operation |

Complex Type OperationType

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Gathers information about a particular operation type including the kind (taxonomy driven), name (human readable representations), status, and commentary. |

| | |
|----------|--|
| Diagram | <pre> classDiagram class OperationType { <<Gathers information about a particular operation type including the kind (taxonomy driven), name (human readable...)>> } class FacilityOperationKind { kind Type FacilityOperationKind } class FreeTextType { name Type FreeTextType } class StatusType { status Type StatusType } class FreeTextType { comment Type FreeTextType } class Extension { 0..> ext:extension } OperationType < -- FacilityOperationKind OperationType < -- FreeTextType OperationType < -- StatusType OperationType < -- FreeTextType OperationType --> Extension </pre> |
| Used by | Element OperationsType/operation |
| Model | kind , name , status , comment{0,1} , ext:extension* |
| Children | comment, ext:extension, kind, name, status |

Complex Type ResourceInformationType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Complex Type to be used for tracking Resource state (status, needs, offers). Allows extension to handle specific information that is non-HAVE (e.g. NIEM payloads, lookups for interoperability with other systems). |
| Diagram | <pre> classDiagram class ResourceInformationType { <<Complex Type to be used for tracking Resource state (status, needs, offers). Allows extension to handle specific...>> } class StatusType { status Type StatusType } class FreeTextType { needs Type FreeTextType } class FreeTextType { offers Type FreeTextType } class FreeTextType { comment Type FreeTextType } class Extension { 0..> ext:extension } ResourceInformationType < -- StatusType ResourceInformationType < -- FreeTextType ResourceInformationType < -- FreeTextType ResourceInformationType < -- FreeTextType ResourceInformationType --> Extension </pre> |
| Used by | Elements FacilityType/resourceInformation, FacilityType/staffing |
| Model | status , needs{0,1} , offers{0,1} , comment{0,1} , ext:extension* |
| Children | comment, ext:extension, needs, offers, status |

Complex Type ResourceQuantityType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Type for stating a quantity of a particular kind of resource. |

| | |
|----------|--|
| Diagram | <pre> classDiagram class ResourceQuantityType { resourceKind quantity resourceSize comments } resourceKind <--> Type edxl-ct:ValueKeyType quantity <--> Type Restriction of 'xs:double' resourceSize <--> Type ext:ParameterNameType comments <--> Type FreeTextType </pre> <p>Type for stating a quantity of a particular kind of resource.</p> |
| Used by | Elements ResourceInformationType/needs/resourceNeed, ResourceInformationType/offers/resourceOffer |
| Model | resourceKind , quantity , resourceSize , comments{0,1} |
| Children | comments, quantity, resourceKind, resourceSize |

Complex Type EmergencyDepartmentType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The container of all of the elements related to the emergency department status. It describes the ability of this emergency department to treat patients. |
| Diagram | <pre> classDiagram class EmergencyDepartmentType { status offloadInfo traffic triageCapacity } status <--> Type StatusType offloadInfo <--> Type OffloadInfoType traffic <--> Type TrafficType triageCapacity <--> Type TriageCapacityType </pre> <p>The container of all of the elements related to the emergency department status. It describes the ability of this...</p> |
| Used by | Element FacilityType/emergencyDepartment |
| Model | status , offloadInfo{0,1} , traffic{0,1} , triageCapacity{0,1} |
| Children | offloadInfo, status, traffic, triageCapacity |

Complex Type OffloadInfoType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> classDiagram class OffloadInfoType { offload ext:extension } offload <--> Type OffloadType ext:extension <--> Type ext:extensionType </pre> <p>The particular offload mode, status, and other information for the facility.</p> <p>Base element to allow communities to extend/augment an EDXL data standard</p> |
| Used by | Element EmergencyDepartmentType/offloadInfo |
| Model | offload+ , ext:extension* |
| Children | ext:extension, offload |

Complex Type OffloadType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Indicator of offload times of ambulance capabilities. The time it takes to transfer care of a patient to hospital staff, thereby freeing the transport for assignment. |
| Diagram | <pre> graph LR OT[OffloadType] --> K{kind} OT --> OM{offloadMinutes} OT --> OS{offloadState} OT --> OCC{offloadColourCode} OT --> C{comment} K --> K_desc["The mode of transport for offload (land, air, other)."] OM --> OM_desc["Average offload time in minutes."] OS --> OS_desc["Offload State Kind"] OS --> OS_desc_val["normal"] OS --> OS_desc_def["Default"] OCC --> OCC_desc["Colour Status Type"] C --> C_desc["Free Text Type"] </pre> <p>Indicator of offload times of ambulance capabilities. The time it takes to transfer care of a patient to hospital...</p> |
| Used by | Element OffloadInfoType/offload |
| Model | kind , offloadMinutes , offloadState{0,1} , offloadColourCode{0,1} , comment{0,1} |
| Children | comment, kind, offloadColourCode, offloadMinutes, offloadState |

Complex Type TrafficType

| | |
|-----------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> graph LR TT[TrafficType] --> S{status} TT --> CS{colourStatus} TT --> R{reason} TT --> C{comment} S --> S_desc["The operating status of the Emergency Department (normal -> advisory -> closed)."] CS --> CS_desc["Colour Status Type"] R --> R_desc["Reason for traffic status"] C --> C_desc["General comment/summary on the traffic status"] </pre> |
| Used by | Element EmergencyDepartmentType/traffic |
| Model | status , colourStatus , reason{0,1} , comment{0,1} |
| Children | colourStatus, comment, reason, status |

Complex Type TriageCapacityType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Diagram | <pre> graph LR TCT[TriageCapacityType] --> TC{triageCount} TCT --> TC_desc["The Count for a particular triage level."] TC --> TC_desc["The Count for a particular triage level."] </pre> |
| Used by | Element EmergencyDepartmentType/triageCapacity |
| Model | triageCount+ |
| Children | triageCount |

Complex Type TriageCountType

| | |
|-------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | The number of each triage patient type the overall hospital currently has by colour code. |
| Diagram | <pre> graph LR TCT[TriageCountType] --> code TCT --> count TCT --> acv[0..∞ alternateCodeValue] TCT --> comment code --> code_desc["Triage Colour Codes (RED, YELLOW, GREEN, BLACK, none) for capacity purposes. The list of values must be from the list..."] count --> count_desc["The number of patients of this code type."] acv --> acv_desc["There are a large number of Triage systems in use. Many usenumerating systems (http://en.wikipedia.org/wiki/Triage#Tags)..."] comment --> comment_desc["comment"] </pre> <p>The diagram illustrates the structure of the TriageCountType complex type. It consists of four elements: code, count, alternateCodeValue (with a multiplicity of 0..∞), and comment. Each element is associated with a detailed description in a callout box. The code element describes the Triage Colour Codes (RED, YELLOW, GREEN, BLACK, none) for capacity purposes. The count element describes the number of patients of this code type. The alternateCodeValue element describes the large number of Triage systems in use, many using numbering systems. The comment element is a free text comment.</p> |
| Used by | Element TriageCapacityType/triageCount |
| Model | code , count , alternateCodeValue* , comment{0,1} |
| Children | alternateCodeValue, code, comment, count |

Complex Type TraumaCenterType

| | |
|-------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
| Annotations | Trauma Center Level of this facility. The Choice/Sequence approach used here allows for at least one of Adult or Pediatric Trauma Center Levels to be provided. |
| Diagram | <pre> graph LR TCT[TraumaCenterType] --> adult TCT --> pediatric adult --> adult_desc["Adult Trauma Services detail."] pediatric --> pediatric_desc["Pediatric Trauma Center details."] </pre> <p>The diagram illustrates the structure of the TraumaCenterType complex type. It consists of two choices: adult and pediatric. Each choice is associated with a detailed description in a callout box. The adult choice describes the Adult Trauma Services detail. The pediatric choice describes the Pediatric Trauma Center details.</p> |
| Used by | Element FacilityType/traumaCenter |
| Model | (adult , pediatric{0,1}) pediatric |
| Children | adult, pediatric |

Complex Type TraumaCenterLevelType

| | |
|-----------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 |
|-----------|--|

| | |
|----------|--|
| Diagram | <pre> classDiagram class TraumaCenterLevelType { <<xs:string>> serviceLevel : TraumaCenterLevelKind status : StatusType comment : FreeTextType <<0..∞>> ext:extension } </pre> |
| Used by | Elements TraumaCenterType/adult, TraumaCenterType/pediatric |
| Model | serviceLevel , status , comment{0,1} , ext:extension* |
| Children | comment, ext:extension, serviceLevel, status |

Simple Type(s)

Simple Type LimitedString

| | | | | | |
|--------------|--|------------|--------------------------|--------------|-------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | |
| Annotations | Text block for preserving whitespace but limiting length to 1024 characters. | | | | |
| Diagram | <pre> classDiagram class LimitedString { <<xs:string>> } </pre> | | | | |
| Type | restriction of xs:string | | | | |
| Facets | <table> <tr> <td>whiteSpace</td> <td>preserve</td> </tr> <tr> <td>maxLength</td> <td>1024</td> </tr> </table> | whiteSpace | preserve | maxLength | 1024 |
| whiteSpace | preserve | | | | |
| maxLength | 1024 | | | | |
| Used by | <table> <tr> <td>Element</td> <td>FreeTextType/defaultText</td> </tr> <tr> <td>Complex Type</td> <td>AlternateTextType</td> </tr> </table> | Element | FreeTextType/defaultText | Complex Type | AlternateTextType |
| Element | FreeTextType/defaultText | | | | |
| Complex Type | AlternateTextType | | | | |

Simple Type FacilityKindType

| | | | | | | | | | | | | | | | |
|----------------|---|-----------|---|-----------|------|-------------|----------|-------------|--------------|-------------|------------------|-------------|-------------------|-------------|-------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | | |
| Diagram | <pre> classDiagram class FacilityKindType { <<edxl-ct:EDXLStringType>> } </pre> | | | | | | | | | | | | | | |
| Type | restriction of ct:EDXLStringType | | | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:token <ul style="list-style-type: none"> • ct:EDXLStringType • FacilityKindType | | | | | | | | | | | | | | |
| Facets | <table> <tr> <td>minLength</td> <td>1</td> </tr> <tr> <td>maxLength</td> <td>1023</td> </tr> <tr> <td>enumeration</td> <td>hospital</td> </tr> <tr> <td>enumeration</td> <td>longTermCare</td> </tr> <tr> <td>enumeration</td> <td>urgentCareClinic</td> </tr> <tr> <td>enumeration</td> <td>temporaryFacility</td> </tr> <tr> <td>enumeration</td> <td>other</td> </tr> </table> | minLength | 1 | maxLength | 1023 | enumeration | hospital | enumeration | longTermCare | enumeration | urgentCareClinic | enumeration | temporaryFacility | enumeration | other |
| minLength | 1 | | | | | | | | | | | | | | |
| maxLength | 1023 | | | | | | | | | | | | | | |
| enumeration | hospital | | | | | | | | | | | | | | |
| enumeration | longTermCare | | | | | | | | | | | | | | |
| enumeration | urgentCareClinic | | | | | | | | | | | | | | |
| enumeration | temporaryFacility | | | | | | | | | | | | | | |
| enumeration | other | | | | | | | | | | | | | | |
| Used by | Element FacilityType/kind | | | | | | | | | | | | | | |

Simple Type ColourCodeDefaultType

| | | | | | | | | | | | | | | | |
|----------------|---|---|-----------|---|-----------|------|-------------|-----|---|-------------|--------|--|-------------|-------|----------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | | |
| Annotations | The use of colour codes allows for emergency personnel to understand if conditions are normal (green), deteriorating (yellow), or in an exceptional mode (red). Colour codes can be rendered graphically or through text to support visual impairments. | | | | | | | | | | | | | | |
| Diagram | <p>The use of colour codes allows for emergency personnel to understand if conditions are normal (green), deteriorating...</p> | | | | | | | | | | | | | | |
| Type | restriction of ct:EDXLStringType | | | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:token <ul style="list-style-type: none"> • ct:EDXLStringType • ColourCodeDefaultType | | | | | | | | | | | | | | |
| Facets | <table border="1"> <tr> <td>minLength</td> <td>1</td> </tr> <tr> <td>maxLength</td> <td>1023</td> </tr> <tr> <td>enumeration</td> <td>red</td> <td>RED – severe/extreme deviation from normal condition. Marks a noted exception from normal conditions.</td> </tr> <tr> <td>enumeration</td> <td>yellow</td> <td>YELLOW – moderate deviation from normal condition but not at SEVERE/EXTREME level.</td> </tr> <tr> <td>enumeration</td> <td>green</td> <td>GREEN – normal conditions.</td> </tr> </table> | | minLength | 1 | maxLength | 1023 | enumeration | red | RED – severe/extreme deviation from normal condition. Marks a noted exception from normal conditions. | enumeration | yellow | YELLOW – moderate deviation from normal condition but not at SEVERE/EXTREME level. | enumeration | green | GREEN – normal conditions. |
| minLength | 1 | | | | | | | | | | | | | | |
| maxLength | 1023 | | | | | | | | | | | | | | |
| enumeration | red | RED – severe/extreme deviation from normal condition. Marks a noted exception from normal conditions. | | | | | | | | | | | | | |
| enumeration | yellow | YELLOW – moderate deviation from normal condition but not at SEVERE/EXTREME level. | | | | | | | | | | | | | |
| enumeration | green | GREEN – normal conditions. | | | | | | | | | | | | | |
| Used by | Element | ColourStatusType/colourCode | | | | | | | | | | | | | |

Simple Type StabilityType

| | | | | | | | | | | | |
|-------------|---|--|-------------|--------|--|-------------|-----------|--|-------------|---------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | |
| Annotations | Indication of stability – positive/improving, negative/deteriorating, or neutral/stable | | | | | | | | | | |
| Diagram | <p>Indication of stability – positive/improving, negative/deteriorating, or neutral/stable</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> | | | | | | | | | | |
| Type | restriction of xs:string | | | | | | | | | | |
| Facets | <table border="1"> <tr> <td>enumeration</td> <td>stable</td> <td>Stable/unchanging – conditions remain within norms and are not varying out of normal patterns.</td> </tr> <tr> <td>enumeration</td> <td>improving</td> <td>Conditions are improving towards normal.</td> </tr> <tr> <td>enumeration</td> <td>deteriorating</td> <td>Conditions are deviating negatively from normal.</td> </tr> </table> | | enumeration | stable | Stable/unchanging – conditions remain within norms and are not varying out of normal patterns. | enumeration | improving | Conditions are improving towards normal. | enumeration | deteriorating | Conditions are deviating negatively from normal. |
| enumeration | stable | Stable/unchanging – conditions remain within norms and are not varying out of normal patterns. | | | | | | | | | |
| enumeration | improving | Conditions are improving towards normal. | | | | | | | | | |
| enumeration | deteriorating | Conditions are deviating negatively from normal. | | | | | | | | | |
| Used by | Element | StatusType/stability | | | | | | | | | |

Simple Type ServiceCodeDefaultType

| | | | | | | | | | | | | | | |
|----------------|---|--|-------------|----------------------------|--|-------------|----------|-----------------------|-------------|------------|----------------------|-------------|---------------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | |
| Diagram | | | | | | | | | | | | | | |
| Type | restriction of ct:ValueType | | | | | | | | | | | | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:string <ul style="list-style-type: none"> • ct:ValueType • ServiceCodeDefaultType | | | | | | | | | | | | | |
| Facets | <table border="1"> <tr> <td>enumeration</td> <td>airborneInfectionIsolation</td> <td></td> </tr> <tr> <td>enumeration</td> <td>burnUnit</td> <td>Burn Center services.</td> </tr> <tr> <td>enumeration</td> <td>cardiology</td> <td>Cardiology services.</td> </tr> <tr> <td>enumeration</td> <td>cardiology.invasive</td> <td>Cardiology with invasive capabilities.</td> </tr> </table> | | enumeration | airborneInfectionIsolation | | enumeration | burnUnit | Burn Center services. | enumeration | cardiology | Cardiology services. | enumeration | cardiology.invasive | Cardiology with invasive capabilities. |
| enumeration | airborneInfectionIsolation | | | | | | | | | | | | | |
| enumeration | burnUnit | Burn Center services. | | | | | | | | | | | | |
| enumeration | cardiology | Cardiology services. | | | | | | | | | | | | |
| enumeration | cardiology.invasive | Cardiology with invasive capabilities. | | | | | | | | | | | | |

| | | |
|-------------|----------------------------|--|
| enumeration | cardiology.noninvasive | Cardiology with NO invasive capabilities. |
| enumeration | cardiologymiSTEMI | STEMI support |
| enumeration | cardiologymi.nonSTEMI | NO STEMI support |
| enumeration | cardiology.telemetry | For remote monitoring of cardiology telemetry data for patient. |
| enumeration | dialysis | Dialysis services |
| enumeration | emergencyDepartment | |
| enumeration | hyperBaricChamber | Hyperbaric Chamber |
| enumeration | infectiousDisease | Infectious Disease Services |
| enumeration | intensiveCare.adult | Adult ICU services. |
| enumeration | intensiveCare.neonatal | Neonatal Intensive Care Unit (ICU) services. |
| enumeration | intensiveCare.pediatric | Pediatric Intensive Care Unit (ICU) services. |
| enumeration | intermediateCare | For low-risk, chronically or critically ill patients |
| enumeration | neonatology | Neonatology |
| enumeration | neurology | Neurology Services |
| enumeration | neurology.invasive | Neurology-Invasive services, including invasive catheterization. |
| enumeration | neurology.noninvasive | Neurology-Non-Invasive services with no invasive catheterization capability. |
| enumeration | obgyn | OBGYN services |
| enumeration | obgyn.withLaborDelivery | OBGYN with labor delivery. |
| enumeration | obgyn.withoutLaborDelivery | OBGYN without labor delivery capabilities. |
| enumeration | operatingRooms | |
| enumeration | ophthalmology | Ophthalmology services |
| enumeration | orthopedic | Orthopedic services |
| enumeration | pediatrics | Pediatric services |
| enumeration | psychiatric | Psychiatric services |
| enumeration | surgery | Surgery capabilities |
| enumeration | surgery.adultGeneral | General Adult surgery capabilities |
| enumeration | surgery.pediatrics | General Pediatric surgery capabilities |
| enumeration | surgery.orthopedics | Orthopedic surgery capabilities |
| enumeration | surgery.neurosurgery | Neurosurgery capabilities |
| enumeration | surgery.facial | Facial surgery capabilities |
| enumeration | surgery.cardiothoracic | Cardiothoracic surgery capabilities |
| enumeration | surgery.hand | Hand surgery capabilities |
| enumeration | surgery.reimplantation | Reimplantation surgery capabilities. |
| enumeration | surgery.spinal | Spinal surgery capabilities |
| enumeration | surgery.vascular | Vascular surgery capabilities |
| enumeration | surgery.anesthesia | Anesthesia services |
| enumeration | traumaCenter | Trauma Center |
| Used by | Element | ServiceType/code |

Simple Type FacilityOperationKind

| | | | |
|-----------|--|-------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p> | | |
| Type | restriction of xs:token | | |
| Facets | enumeration | plant | Plant - the key equipment and capabilities needed to operate the facility (e.g. HVAC, cafeteria). |

| | | | |
|---------|-------------|--------------------|--|
| | enumeration | security | Security operations for facility (e.g. patrol, surveillance). |
| | enumeration | staffing | Staff-related operations (e.g. medical personnel, support staffing, administrative). |
| | enumeration | emergency | Emergency Department operations. |
| Used by | Element | OperationType/kind | |

Simple Type **OffloadKind**

| | | | |
|-----------|--|------------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p> | | |
| Type | restriction of xs:token | | |
| Facets | enumeration | land | |
| | enumeration | air | |
| | enumeration | other | |
| Used by | Element | OffloadType/kind | |

Simple Type **OffloadStateKind**

| | | | |
|-----------|--|--------------------------|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p> | | |
| Type | restriction of xs:token | | |
| Facets | enumeration | normal | |
| | enumeration | delayed | |
| Used by | Element | OffloadType/offloadState | |

Simple Type **TrafficStatusKind**

| | | | |
|-----------|--|--------------------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p> | | |
| Type | restriction of xs:token | | |
| Facets | enumeration | normal | Traffic is at levels that are within norms. |
| | enumeration | advisory | Traffic levels are high enough to warrant notifying the community that the facility is experiencing higher than expected traffic. |
| | enumeration | closed | Facility is not accepting patient traffic. |
| Used by | Element | TrafficType/status | |

Simple Type **TriageColourCodeType**

| | | | |
|----------------|--|--|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | |
| Diagram | | | |
| Type | restriction of ct:EDXLStringType | | |
| Type hierarchy | <ul style="list-style-type: none"> • xs:token | | |

| | | | | | | | | | | | | | | | | | |
|-------------|--|--|---|-----------|------|-------------|-----|--|-------------|--------|--|-------------|-------|--|-------------|-------|--------------------------|
| | <ul style="list-style-type: none"> • ct:EDXLStringType • TriageColourCodeType | | | | | | | | | | | | | | | | |
| Facets | <table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>1023</td></tr> <tr> <td>enumeration</td><td>red</td><td>RED Triage - Immediate attention for Triage.</td></tr> <tr> <td>enumeration</td><td>yellow</td><td>YELLOW Triage - Needs medical attention after RED/Immediate.</td></tr> <tr> <td>enumeration</td><td>green</td><td>GREEN Triage - Walking wounded or self-treatable</td></tr> <tr> <td>enumeration</td><td>black</td><td>BLACK Triage - Lost/Dead</td></tr> </table> | minLength | 1 | maxLength | 1023 | enumeration | red | RED Triage - Immediate attention for Triage. | enumeration | yellow | YELLOW Triage - Needs medical attention after RED/Immediate. | enumeration | green | GREEN Triage - Walking wounded or self-treatable | enumeration | black | BLACK Triage - Lost/Dead |
| minLength | 1 | | | | | | | | | | | | | | | | |
| maxLength | 1023 | | | | | | | | | | | | | | | | |
| enumeration | red | RED Triage - Immediate attention for Triage. | | | | | | | | | | | | | | | |
| enumeration | yellow | YELLOW Triage - Needs medical attention after RED/Immediate. | | | | | | | | | | | | | | | |
| enumeration | green | GREEN Triage - Walking wounded or self-treatable | | | | | | | | | | | | | | | |
| enumeration | black | BLACK Triage - Lost/Dead | | | | | | | | | | | | | | | |
| Used by | Element TriageCountType/code | | | | | | | | | | | | | | | | |

Simple Type TraumaCenterLevelKind

| | | | | | | | | | | | | | | |
|-------------|---|-------------------------|-------------|--------|-------------------------|-------------|--------|-------------------------|-------------|--------|-------------------------|-------------|-----------|-------------------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | | | | | | | | | |
| Diagram | <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p> | | | | | | | | | | | | | |
| Type | restriction of xs:token | | | | | | | | | | | | | |
| Facets | <table> <tr> <td>enumeration</td><td>level1</td><td>Level 1 Trauma Services</td></tr> <tr> <td>enumeration</td><td>level2</td><td>Level 2 Trauma Services</td></tr> <tr> <td>enumeration</td><td>level3</td><td>Level 3 Trauma Services</td></tr> <tr> <td>enumeration</td><td>no-trauma</td><td>Level 4 Trauma Services</td></tr> </table> | | enumeration | level1 | Level 1 Trauma Services | enumeration | level2 | Level 2 Trauma Services | enumeration | level3 | Level 3 Trauma Services | enumeration | no-trauma | Level 4 Trauma Services |
| enumeration | level1 | Level 1 Trauma Services | | | | | | | | | | | | |
| enumeration | level2 | Level 2 Trauma Services | | | | | | | | | | | | |
| enumeration | level3 | Level 3 Trauma Services | | | | | | | | | | | | |
| enumeration | no-trauma | Level 4 Trauma Services | | | | | | | | | | | | |
| Used by | Element TraumaCenterLevelType/serviceLevel | | | | | | | | | | | | | |

Attribute(s)

Attribute AlternateTextType / @language

| | | |
|-------------|--|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | |
| Annotations | Language code for the text in this element. Code MUST comply with RFC3066. | |
| Type | xs:string | |
| Properties | use: required | |
| Used by | Complex Type AlternateTextType | |

Attribute GeoLocationType / wgs84Location / @srsName

| | | | | | | |
|------------|---|--|------|----------|--------|---|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | | | | | |
| Properties | <table> <tr> <td>use:</td><td>required</td></tr> <tr> <td>fixed:</td><td>http://www.opengis.net/def/crs/EPSG/0/4326</td></tr> </table> | | use: | required | fixed: | http://www.opengis.net/def/crs/EPSG/0/4326 |
| use: | required | | | | | |
| fixed: | http://www.opengis.net/def/crs/EPSG/0/4326 | | | | | |
| Used by | Element GeoLocationType/wgs84Location | | | | | |

Attribute GeoLocationType / geoLocationExtended / @srsName

| | | |
|------------|--|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | |
| Properties | use: required | |
| Used by | Element GeoLocationType/geoLocationExtended | |

Attribute FacilityType / @ID

| | | |
|-------------|--|--|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | |
| Annotations | A unique identifier for this Facility. This value should be unique globally, but MUST be unique from the sender perspective. | |

| | | |
|------------|--------------|-----------------|
| Type | xs:ID | |
| Properties | use: | required |
| Used by | Complex Type | FacilityType |

Attribute FacilityType / @parentID

| | | |
|-------------|--|---------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | |
| Annotations | Reference to the ID of the Facility that is the parent (owner, manager, responsible, etc.) of this Facility. This field is optional and used to provide a hierarchy for formal facility organizations. | |
| Type | xs:IDREF | |
| Properties | content: | simple |
| Used by | Complex Type | FacilityType |

Attribute HAVE / @defaultLanguage

| | | |
|-------------|---|-----------------|
| Namespace | urn:oasis:names:tc:emergency:edxl:have:2.0 | |
| Annotations | Language code that is used throughout the document. Code MUST comply with RFC3066. Free text within the document will be assumed to be in this defaultLanguage. | |
| Type | xs:string | |
| Properties | use: | required |
| Used by | Element | HAVE |

Appendix B. Acknowledgments

The HAVE Subcommittee is Chaired by Darrell O'Donnell who has worked tirelessly and through holidays to bring this specification to the EM-TC for approval and advancement to a Standard under the close guidance of the OASIS process. He has been ably assisted by Brian Wilkins who has also participated intently to bring this work to conclusion. The following individuals have participated in the subcommittee creating this specification and are gratefully acknowledged:

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Appendix C. Revision History

| Revision | Date | Editor | Changes Made |
|----------|-----------|-------------------|---|
| WD02 | 23DEC2014 | Darrell O'Donnell | Preparation for submission to OASIS EM-TC |
| WD02 | 13JAN2015 | Darrell O'Donnell | Updates to reflect RIM (CT, CIQ, and GSF) working drafts. |
| CSD01 | 13JAN2014 | Darrell O'Donnell | Updates to reflect EM TC Committee Specification Draft |