

Schema documentation for edxl-have2.1DRAFT_v0.6.xsd

august 14, 2012

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Resource hierarchy:

Legend:  Import,  Include,  Redefine,  Cycle detected

edxl-have2.1DRAFT_v0.6.xsd

edxl-gsf.v1.0.xsd

edxl-gsf-base.xsd

edxl-ct-v1.0-wd05.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

xPIL-types.xsd

Namespace: "urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"

Schema(s)

Main schema edxl-have2.1DRAFT_v0.6.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: 2.1 Status: SC DRAFT Copyright: 2012, OASIS, http://www.oasis-open.org Last Modified: 7 Feb 2012 Last Modified by: Lew Leinenweber - SE Solutions, Inc</p> <p>Added 01MAY2012</p> <p>Guiding Concepts/Principles:</p> <p>Schema Validation: should provide deep validation capabilities as opposed to being a basic schema where</p>

	<p>different groups make up extensions to the point where nothing is valid in between systems.</p> <p>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.</p> <p>ID and IDREF: References (IDREF) to unique elements (ID) should be used, especially where establishing of a hierarchy.</p> <p>DARRELL: Please note that I threw this one in after our last conversation. I don't know if you guys agree on this and I am fine if it isn't applied, but we need some way to uniquely identify the Facilities, Organizations, and Health Networks.</p>
Properties	<p>attribute form default: qualified</p> <hr/> <p>element form default: qualified</p>

Element(s)

Element FacilityNetwork

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>DARRELL: RENAMED (well, created and moved 1:n Facility under it.)</p> <p>This would be the top-level item.</p> <p>A HealthNetwork would have 1..n Organization elements representing the various Organizations that are providing capabilities in the network. We'd need HealthNetwork level information here much like the HealthNetworkInformation, HealthNetworkGeoLocation, etc.</p> <p>QUESTION: do we need an HealthNetworkSummary element below it to contain summary level information (e.g. total beds, total service coverage, total admissions/discharges, deaths) or do we recommend that someone needed such a summary do their own aggregation. The harder question is are there truly summary-level items (e.g. status of the overall HealthNetwork) that can't be automatically aggregated?</p>
Diagram	<pre> graph TD FN[FacilityNetwork] --- Org[OrganizationInformation] FN --- RP[ReportingPeriod] FN --- FNN[FacilityNetworkName] FN --- F[Facility] </pre> <p>The diagram shows the structure of the FacilityNetwork element. It is a complex type containing four child elements: OrganizationInformation (Type: OrganizationInformationType), ReportingPeriod (Type: TimeRange), FacilityNetworkName (Type: xs:string), and Facility (Type: FacilityType). The Facility element has a cardinality of 1..∞. Annotations provide context: OrganizationInformation is information for reporting, ReportingPeriod is the current reporting period (typically 24-hr), and FacilityNetworkName is a string. A note indicates that FacilityNetwork was renamed from Facility.</p>
Properties	content: complex
Model	OrganizationInformation , ReportingPeriod , FacilityNetworkName , Facility+
Children	Facility, FacilityNetworkName, OrganizationInformation, ReportingPeriod
Instance	<pre><FacilityNetwork xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <OrganizationInformation>{1,1}</OrganizationInformation> <ReportingPeriod>{1,1}</ReportingPeriod> <FacilityNetworkName>{1,1}</FacilityNetworkName> <Facility>{1,unbounded}</Facility> </FacilityNetwork></pre>
Source	<pre><xs:element name="FacilityNetwork"> <xs:annotation> <xs:documentation>DARRELL: RENAMED (well, created and moved 1:n Facility under it.) This would be the top-level item. A HealthNetwork would have 1..n Organization elements representing the various Organizations that are providing capabilities in the network. We'd need HealthNetwork level information here much like the HealthNetworkInformation, HealthNetworkGeoLocation, etc. QUESTION: do we need an HealthNetworkSummary element below it to contain summary level information (e.g. total beds, total service coverage, total admissions/discharges, deaths) or do we recommend that someone needed such a summary do their own aggregation. The harder question is are there truly summary-level items (e.g. status of the overall HealthNetwork) that can't be automatically aggregated?</xs:documentation> </xs:annotation> </xs:element></pre>

```

<xs:sequence>
  <xs:element name="OrganizationInformation" type="OrganizationInformationType">
    <xs:annotation>
      <xs:documentation>Information of the Organization that is responsible for the reporting of
these facilities. NOTE: Moved from being sub-element of FacilityInformation</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ReportingPeriod" type="TimeRange">
    <xs:annotation>
      <xs:documentation>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 blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="FacilityNetworkName" type="xs:string"/>
  <xs:element maxOccurs="unbounded" name="Facility" type="FacilityType">
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element FacilityNetwork / OrganizationInformation

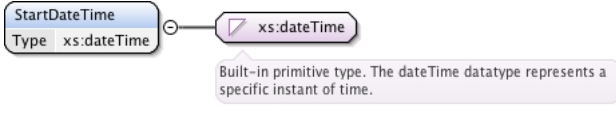
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Information of the Organization that is responsible for the reporting of these facilities. NOTE: Moved from being sub-element of FacilityInformation
Diagram	
Type	OrganizationInformationType
Type hierarchy	<ul style="list-style-type: none"> • OrganisationDetailsType • OrganizationInformationType
Properties	content: complex
Source	<pre> <xs:element name="OrganizationInformation" type="OrganizationInformationType"> <xs:annotation> <xs:documentation>Information of the Organization that is responsible for the reporting of these facilities. NOTE: Moved from being sub-element of FacilityInformation</xs:documentation> </xs:annotation> </xs:element> </pre>

Element FacilityNetwork / ReportingPeriod

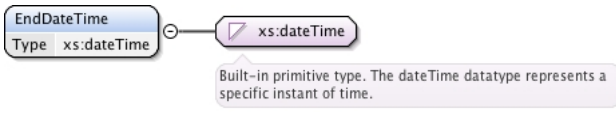
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The reporting period applicable for this Facility element and called the "current reporting period" typically a 24-hr period but the duration may change for operational reasons. If blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?
Diagram	
Type	TimeRange
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime

Instance	<pre><ReportingPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </ReportingPeriod></pre>
Source	<pre><xs:element name="ReportingPeriod" type="TimeRange"> <xs:annotation> <xs:documentation>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 blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?</ xs:documentation> </xs:annotation> </xs:element></pre>

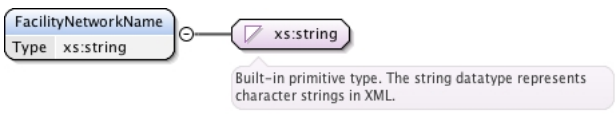
Element TimeRange / StartDateTime

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="StartDateTime" type="xs:dateTime"/></pre>

Element TimeRange / EndDateTime

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:dateTime
Properties	content: simple
Source	<pre><xs:element name="EndDateTime" type="xs:dateTime"/></pre>

Element FacilityNetwork / FacilityNetworkName

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="FacilityNetworkName" type="xs:string"/></pre>

Element FacilityNetwork / Facility

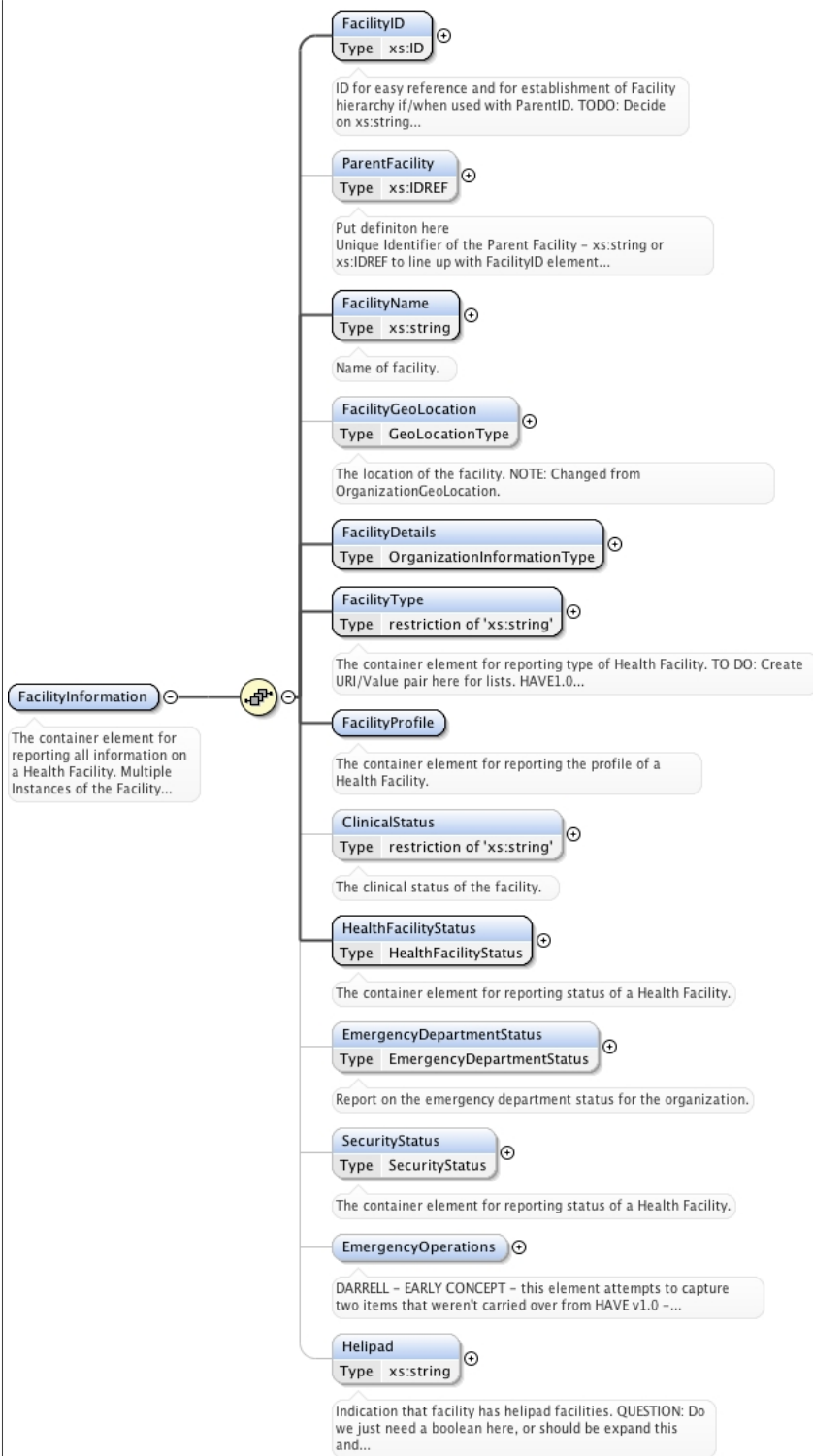
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Diagram					
Type	FacilityType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	maxOccurs:	unbounded
content:	complex				
maxOccurs:	unbounded				
Model	FacilityInformation , ReportingPeriod , ActivityInPeriod{0,1} , Services , Capacity , Resources{0,1} , CommentText*				
Children	ActivityInPeriod, Capacity, CommentText, FacilityInformation, ReportingPeriod, Resources, Services				
Instance	<pre><Facility xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0" > <FacilityInformation>{1,1}</FacilityInformation> <ReportingPeriod>{1,1}</ReportingPeriod> <ActivityInPeriod>{0,1}</ActivityInPeriod> <Services>{1,1}</Services> <Capacity>{1,1}</Capacity> <Resources>{0,1}</Resources> <CommentText>{0,unbounded}</CommentText> </Facility></pre>				
Source	<pre><xs:element maxOccurs="unbounded" name="Facility" type="FacilityType"> </xs:element></pre>				

Element FacilityType / FacilityInformation

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>The container element for reporting all information on a Health Facility. Multiple Instances of the Facility Information element MAY occur within the HospitalStatus container element.</p> <p>DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Facility Information block?</p>

Diagram



Properties	content: complex maxOccurs: 1
Model	FacilityID , ParentFacility{0,1} , FacilityName , FacilityGeoLocation{0,1} , FacilityDetails , FacilityType , FacilityProfile , ClinicalStatus{0,1} , HealthFacilityStatus , EmergencyDepartmentStatus{0,1} , SecurityStatus{0,1} , EmergencyOperations{0,1} , Helipad{0,1}
Children	ClinicalStatus, EmergencyDepartmentStatus, EmergencyOperations, FacilityDetails, FacilityGeoLocation, FacilityID, FacilityName, FacilityProfile, FacilityType, HealthFacilityStatus, Helipad, ParentFacility, SecurityStatus
Instance	<pre><FacilityInformation xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <FacilityID>{1,1}</FacilityID> <ParentFacility>{0,1}</ParentFacility> <FacilityName>{1,1}</FacilityName></pre>

	<pre> <FacilityGeoLocation>{0,1}</FacilityGeoLocation> <FacilityDetails>{1,1}</FacilityDetails> <FacilityType>{1,1}</FacilityType> <FacilityProfile>{1,1}</FacilityProfile> <ClinicalStatus>{0,1}</ClinicalStatus> <HealthFacilityStatus>{1,1}</HealthFacilityStatus> <EmergencyDepartmentStatus>{0,1}</EmergencyDepartmentStatus> <SecurityStatus>{0,1}</SecurityStatus> <EmergencyOperations>{0,1}</EmergencyOperations> <Helipad>{0,1}</Helipad> </FacilityInformation> </pre>
Source	<pre> <xs:element name="FacilityInformation" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting all information on a Health Facility. Multiple Instances of the Facility Information element MAY occur within the HospitalStatus container element. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Facility Information block?</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="FacilityID" type="xs:ID"> <xs:annotation> <xs:documentation>ID for easy reference and for establishment of Facility hierarchy if/ when used with ParentID. TODO: Decide on xs:string or xs:ID - either way this value really needs to be unique in the XML file so relationships can be established.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ParentFacility" maxOccurs="1" type="xs:IDREF" minOccurs="0"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> <xs:documentation>Unique Identifier of the Parent Facility - xs:string or xs:IDREF to line up with FacilityID element type</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityName" type="xs:string"> <xs:annotation> <xs:documentation>Name of facility.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityGeoLocation" type="GeoLocationType" minOccurs="0"> <xs:annotation> <xs:documentation>The location of the facility. NOTE: Changed from OrganizationGeoLocation.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityDetails" type="OrganizationInformationType"/> <xs:element name="FacilityType" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting type of Health Facility. TO DO: Create URI/Value pair here for lists. HAVE1.0 default would be Hospital.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Hospital"/> <xs:enumeration value=""/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="FacilityProfile" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting the profile of a Health Facility.</ xs:documentation> </xs:annotation> </xs:element> <xs:element minOccurs="0" name="ClinicalStatus"> <xs:annotation> <xs:documentation>The clinical status of the facility.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>Hospital clinical resources are operating within normal conditions.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Full"> <xs:annotation> <xs:documentation>Hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or community surge response is required.</ xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>

```

        </xs:enumeration>
    </xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="HealthFacilityStatus" type="HealthFacilityStatus" maxOccurs="1">
    <xs:annotation>
        <xs:documentation>The container element for reporting status of a Health Facility.</
xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="EmergencyDepartmentStatus" type="EmergencyDepartmentStatus" minOccurs="0">
    <xs:annotation>
        <xs:documentation>Report on the emergency department status for the organization.</
xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="SecurityStatus" type="SecurityStatus" maxOccurs="1" minOccurs="0">
    <xs:annotation>
        <xs:documentation>The container element for reporting status of a Health Facility.</
xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="EmergencyOperations" minOccurs="0">
    <xs:annotation>
        <xs:documentation>DARRELL - EARLY CONCEPT - this element attempts to capture two
items that weren't carried over from HAVE v1.0 - HospitaleOCPlan and HospitaleOCStatus. I put
these as FacilityInformation sub-elements as that feels like the best place for them - they are
facility-dependent and don't really fall under another item though some may argue they fall under
Security, which isn't correct IMHO. I haven't rationalized the sub-element types or created a
EmergencyOperationsType or anything yet - just getting the concept out.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element name="EOCPlan"/>
            <xs:element name="EOCStatus"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element minOccurs="0" name="Helipad" type="xs:string">
    <xs:annotation>
        <xs:documentation>Indication that facility has helipad facilities. QUESTION: Do we just
need a boolean here, or should be expand this and add a bit more information about the helipad?</
xs:documentation>
    </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

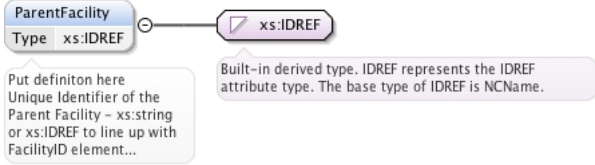
```

Element FacilityType / FacilityInformation / FacilityID

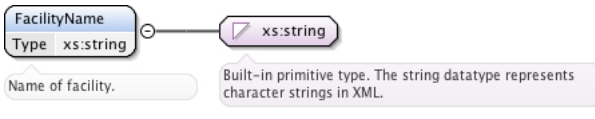
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	ID for easy reference and for establishment of Facility hierarchy if/when used with ParentID. TODO: Decide on xs:string or xs:ID - either way this value really needs to be unique in the XML file so relationships can be established.
Diagram	<p>FacilityID Type xs:ID</p> <p>xs:ID</p> <p>Built-in derived type. ID represents the ID attribute type. The base type of ID is NCName.</p> <p>ID for easy reference and for establishment of Facility hierarchy if/when used with ParentID. TODO: Decide on xs:string...</p>
Type	xs:ID
Properties	content: simple
Source	<pre> <xs:element name="FacilityID" type="xs:ID"> <xs:annotation> <xs:documentation>ID for easy reference and for establishment of Facility hierarchy if/when used with ParentID. TODO: Decide on xs:string or xs:ID - either way this value really needs to be unique in the XML file so relationships can be established.</xs:documentation> </xs:annotation> </xs:element> </pre>

Element FacilityType / FacilityInformation / ParentFacility

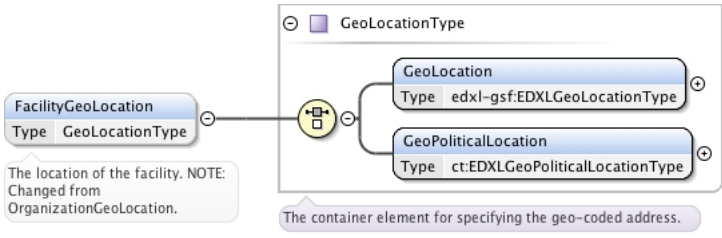
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
-----------	--

Annotations	Put definiton here Unique Identifier of the Parent Facility - xs:string or xs:IDREF to line up with FacilityID element type						
Diagram							
Type	xs:IDREF						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						
Source	<pre><xs:element name="ParentFacility" maxOccurs="1" type="xs:IDREF" minOccurs="0"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> <xs:documentation>Unique Identifier of the Parent Facility - xs:string or xs:IDREF to line up with FacilityID element type</xs:documentation> </xs:annotation> </xs:element></pre>						

Element FacilityType / FacilityInformation / FacilityName

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Annotations	Name of facility.		
Diagram			
Type	xs:string		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		
Source	<pre><xs:element name="FacilityName" type="xs:string"> <xs:annotation> <xs:documentation>Name of facility.</xs:documentation> </xs:annotation> </xs:element></pre>		

Element FacilityType / FacilityInformation / FacilityGeoLocation

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	The location of the facility. NOTE: Changed from OrganizationGeoLocation.				
Diagram					
Type	GeoLocationType				
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	GeoLocation GeoPoliticalLocation				
Children	GeoLocation, GeoPoliticalLocation				
Instance	<pre><FacilityGeoLocation xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <GeoLocation>{1,1}</GeoLocation> <GeoPoliticalLocation>{1,1}</GeoPoliticalLocation></pre>				

	</FacilityGeoLocation>
Source	<pre><xs:element name="FacilityGeoLocation" type="GeoLocationType" minOccurs="0"> <xs:annotation> <xs:documentation>The location of the facility. NOTE: Changed from OrganizationGeoLocation.</ </xs:annotation> </xs:element></pre>

Element GeoLocationType / GeoLocation

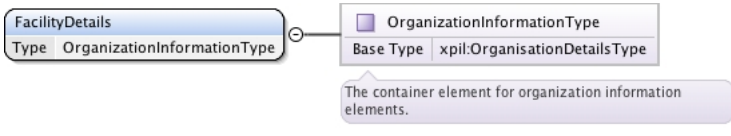
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	edxl-gsf:EDXLGeoLocationType
Properties	content: complex
Model	gml:Point gml:CircleByCenterPoint gml:Polygon gml:Envelope gml:LineString
Children	gml:CircleByCenterPoint, gml:Envelope, gml:LineString, gml:Point, gml:Polygon
Instance	<pre><GeoLocation 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" n 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> </GeoLocation></pre>
Source	<xs:element name="GeoLocation" type="edxl-gsf:EDXLGeoLocationType"/>

Element GeoLocationType / GeoPoliticalLocation

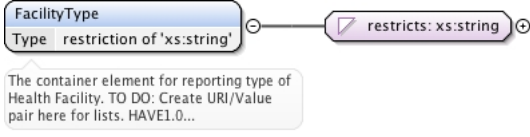
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	ct:EDXLGeoPoliticalLocationType
Properties	content: complex
Model	ct:Address ct:GeoCode
Children	ct:Address, ct:GeoCode

Instance	<pre><GeoPoliticalLocation xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0" xmlns:ct="urn:oasis:names:tc:emergency:ed <ct:Address>{1,1}</ct:Address> <ct:GeoCode>{1,1}</ct:GeoCode> </GeoPoliticalLocation></pre>
Source	<pre><xs:element name="GeoPoliticalLocation" type="ct:EDXLGeoPoliticalLocationType" /></pre>

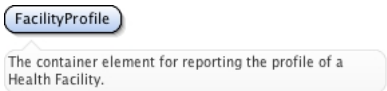
Element FacilityType / FacilityInformation / FacilityDetails

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	OrganizationInformationType
Type hierarchy	<ul style="list-style-type: none"> • OrganisationDetailsType • OrganizationInformationType
Properties	content: complex
Source	<pre><xs:element name="FacilityDetails" type="OrganizationInformationType" /></pre>

Element FacilityType / FacilityInformation / FacilityType


Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>The container element for reporting type of Health Facility.</p> <p>TO DO: Create URI/Value pair here for lists. HAVE1.0 default would be Hospital.</p>
Diagram	
Type	restriction of xs:string
Properties	<p>content: simple</p> <p>maxOccurs: 1</p>
Facets	<p>enumeration Hospital</p> <p>enumeration</p>
Source	<pre><xs:element name="FacilityType" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting type of Health Facility. TO DO: Create URI/Value pair here for lists. HAVE1.0 default would be Hospital.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Hospital" /> <xs:enumeration value="" /> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element FacilityType / FacilityInformation / FacilityProfile

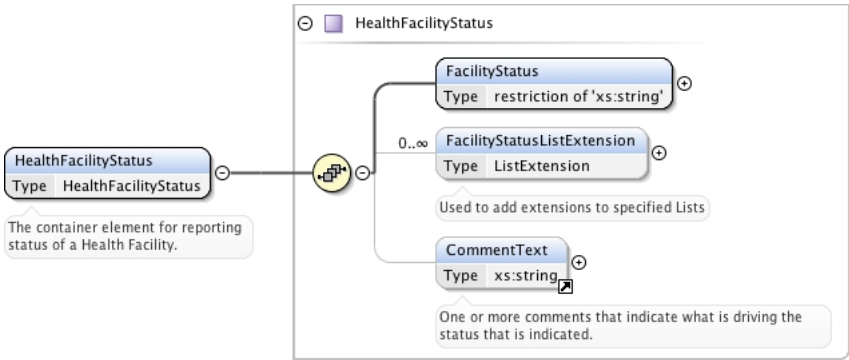
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The container element for reporting the profile of a Health Facility.
Diagram	
Properties	maxOccurs: 1
Source	<pre><xs:element name="FacilityProfile" maxOccurs="1"> <xs:annotation></pre>

```
<xs:documentation>The container element for reporting the profile of a Health Facility.</xs:documentation>
</xs:annotation>
</xs:element>
```

Element FacilityType / FacilityInformation / ClinicalStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Annotations	The clinical status of the facility.		
Diagram			
Type	restriction of xs:string		
Properties	content:	simple	
	minOccurs:	0	
Facets	enumeration	Normal	Hospital clinical resources are operating within normal conditions.
	enumeration	Full	Hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or community surge response is required.
Source	<pre><xs:element minOccurs="0" name="ClinicalStatus"> <xs:annotation> <xs:documentation>The clinical status of the facility.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>Hospital clinical resources are operating within normal conditions.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Full"> <xs:annotation> <xs:documentation>Hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or community surge response is required.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element FacilityType / FacilityInformation / HealthFacilityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Annotations	The container element for reporting status of a Health Facility.		
Diagram			
Type	HealthFacilityStatus		
Properties	content:	complex	
	maxOccurs:	1	

Model	FacilityStatus , FacilityStatusListExtension* , CommentText{0,1}
Children	CommentText, FacilityStatus, FacilityStatusListExtension
Instance	<pre><HealthFacilityStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <FacilityStatus>{1,1}</FacilityStatus> <FacilityStatusListExtension>{0,unbounded}</FacilityStatusListExtension> <CommentText>{0,1}</CommentText> </HealthFacilityStatus></pre>
Source	<pre><xs:element name="HealthFacilityStatus" type="HealthFacilityStatus" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting status of a Health Facility.</ xs:documentation> </xs:annotation> </xs:element></pre>

Element HealthFacilityStatus / FacilityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Diagram			
Type	restriction of xs:string		
Properties	content:	simple	
Facets	enumeration	Normal	No conditions exist that adversely affect the general operations of the facility.
	enumeration	Compromised	General operations of the facility have been affected due to damage, operating on emergency backup systems, or facility contamination.
	enumeration	Evacuating	Indicates that a hospital is in the process of a partial or full evacuation.
	enumeration	Closed	Indicates that a hospital is no longer capable of providing services and only emergency services/restoration personnel remain in the facility.
Source	<pre><xs:element name="FacilityStatus"> <xs:simpleType> <xs:annotation> <xs:documentation>The status of the facility.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>No conditions exist that adversely affect the general operations of the facility.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Compromised"> <xs:annotation> <xs:documentation>General operations of the facility have been affected due to damage, operating on emergency backup systems, or facility contamination.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Evacuating"> <xs:annotation> <xs:documentation>Indicates that a hospital is in the process of a partial or full evacuation.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Closed"> <xs:annotation> <xs:documentation>Indicates that a hospital is no longer capable of providing services and only emergency services/restoration personnel remain in the facility.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element HealthFacilityStatus / FacilityStatusListExtension

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Annotations	Used to add extensions to specified Lists						
Diagram							
Type	ListExtension						
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	valueName , value , ReferencedList , DataType , URI , Description						
Children	DataType, Description, ReferencedList, URI, value, valueName						
Instance	<pre><FacilityStatusListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </FacilityStatusListExtension></pre>						
Source	<pre><xs:element name="FacilityStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element></pre>						

Element valueName

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:string
Properties	content: simple
Used by	Complex Type ListExtension
Source	<pre><xs:element name="valueName" type="xs:string"/></pre>

Element value

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	

Type	DefaultServiceValues												
Type hierarchy	<ul style="list-style-type: none"> xs:string ct:ValueType <ul style="list-style-type: none"> DefaultServiceValues 												
Properties	content: simple												
Facets	<table border="1"> <tr><td>enumeration</td><td>Burn</td></tr> <tr><td>enumeration</td><td>Cardiology</td></tr> <tr><td>enumeration</td><td>Cardiology.Invasive</td></tr> <tr><td>enumeration</td><td>Cardiology.NonInvasive</td></tr> <tr><td>enumeration</td><td>Dialysis</td></tr> <tr><td>enumeration</td><td>OTHER.HAVE1.0.TYPES</td></tr> </table>	enumeration	Burn	enumeration	Cardiology	enumeration	Cardiology.Invasive	enumeration	Cardiology.NonInvasive	enumeration	Dialysis	enumeration	OTHER.HAVE1.0.TYPES
enumeration	Burn												
enumeration	Cardiology												
enumeration	Cardiology.Invasive												
enumeration	Cardiology.NonInvasive												
enumeration	Dialysis												
enumeration	OTHER.HAVE1.0.TYPES												
Used by	Complex Type ListExtension												
Source	<code><xs:element name="value" type="DefaultServiceValues" /></code>												

Element ReferencedList

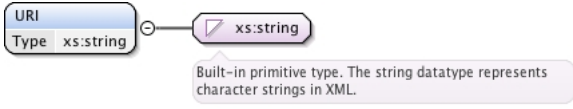
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0																		
Diagram																			
Type	restriction of xs:string																		
Properties	content: simple																		
Facets	<table border="1"> <tr><td>enumeration</td><td>HealthFacilityResourceStatus</td></tr> <tr><td>enumeration</td><td>HealthFacilityStatus</td></tr> <tr><td>enumeration</td><td>OrganizationInformation</td></tr> <tr><td>enumeration</td><td>HospitalBedCapacityStatus</td></tr> <tr><td>enumeration</td><td>Capacity</td></tr> <tr><td>enumeration</td><td>ServiceCoverageStatus</td></tr> <tr><td>enumeration</td><td>TransportServicesSubType</td></tr> <tr><td>enumeration</td><td>SurgerySubType</td></tr> <tr><td>enumeration</td><td>PhysciatricSubType</td></tr> </table>	enumeration	HealthFacilityResourceStatus	enumeration	HealthFacilityStatus	enumeration	OrganizationInformation	enumeration	HospitalBedCapacityStatus	enumeration	Capacity	enumeration	ServiceCoverageStatus	enumeration	TransportServicesSubType	enumeration	SurgerySubType	enumeration	PhysciatricSubType
enumeration	HealthFacilityResourceStatus																		
enumeration	HealthFacilityStatus																		
enumeration	OrganizationInformation																		
enumeration	HospitalBedCapacityStatus																		
enumeration	Capacity																		
enumeration	ServiceCoverageStatus																		
enumeration	TransportServicesSubType																		
enumeration	SurgerySubType																		
enumeration	PhysciatricSubType																		
Used by	Complex Type ListExtension																		
Source	<pre> <xs:element name="ReferencedList"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="HealthFacilityResourceStatus" /> <xs:enumeration value="HealthFacilityStatus" /> <xs:enumeration value="OrganizationInformation" /> <xs:enumeration value="HospitalBedCapacityStatus" /> <xs:enumeration value="Capacity" /> <xs:enumeration value="ServiceCoverageStatus" /> <xs:enumeration value="TransportServicesSubType" /> <xs:enumeration value="SurgerySubType" /> <xs:enumeration value="PhysciatricSubType" /> </xs:restriction> </xs:simpleType> </xs:element> </pre>																		

Element DataType

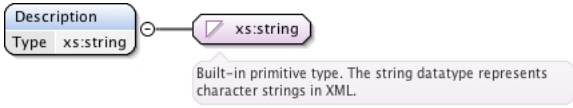
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:string

Properties	content:	simple
Used by	Complex Type	ListExtension
Source	<code><xs:element name="DataType" type="xs:string" /></code>	

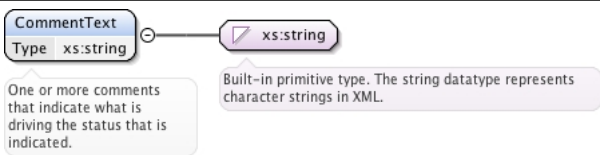
Element URI

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Type	xs:string	
Properties	content:	simple
Used by	Complex Type	ListExtension
Source	<code><xs:element name="URI" type="xs:string" /></code>	

Element Description

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Type	xs:string	
Properties	content:	simple
Used by	Complex Type	ListExtension
Source	<code><xs:element name="Description" type="xs:string" /></code>	

Element CommentText

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Annotations	One or more comments that indicate what is driving the status that is indicated.	
Diagram		
Type	xs:string	
Properties	content:	simple
Used by	Elements	EmergencyDepartmentStatus/EMSTraffic, FacilityType/ActivityInPeriod
	Complex Types	FacilityType, FutureServicesType, HealthFacilityStatus, ResourceStatusType, SecurityStatus, ServicesType, StatusType
Source	<pre><xs:element name="CommentText" type="xs:string"> <xs:annotation> <xs:documentation>One or more comments that indicate what is driving the status that is indicated.</xs:documentation> </xs:annotation> </xs:element></pre>	

Element FacilityType / FacilityInformation / EmergencyDepartmentStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Annotations	Report on the emergency department status for the organization.	

Diagram					
Type	EmergencyDepartmentStatus				
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	EMSTraffic{0,1} , EMSCapacity{0,1} , EMSCensus{0,1} , EMSAmbulanceStatus{0,1} , EMSAirTransportStatus{0,1}				
Children	EMSAirTransportStatus, EMSAmbulanceStatus, EMSCapacity, EMSCensus, EMSTraffic				
Instance	<pre><EmergencyDepartmentStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <EMSTraffic>{0,1}</EMSTraffic> <EMSCapacity>{0,1}</EMSCapacity> <EMSCensus>{0,1}</EMSCensus> <EMSAmbulanceStatus>{0,1}</EMSAmbulanceStatus> <EMSAirTransportStatus>{0,1}</EMSAirTransportStatus> </EmergencyDepartmentStatus></pre>				
Source	<pre><xs:element name="EmergencyDepartmentStatus" type="EmergencyDepartmentStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Report on the emergency department status for the organization.</ xs:documentation> </xs:annotation> </xs:element></pre>				

Element EmergencyDepartmentStatus / EMSTraffic

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Ability of this emergency department to receive patients via emergency medical services.

Diagram					
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	EMSTrafficStatus{0,1} , EMSTrafficStatusListExtension* , EMSTrafficReason{0,1} , CommentText{0,1}				
Children	CommentText, EMSTrafficReason, EMSTrafficStatus, EMSTrafficStatusListExtension				
Instance	<pre><EMSTraffic xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <EMSTrafficStatus>{0,1}</EMSTrafficStatus> <EMSTrafficStatusListExtension>{0,unbounded}</EMSTrafficStatusListExtension> <EMSTrafficReason>{0,1}</EMSTrafficReason> <CommentText>{0,1}</CommentText> </EMSTraffic></pre>				
Source	<pre><xs:element name="EMSTraffic" minOccurs="0"> <xs:annotation> <xs:documentation>Ability of this emergency department to receive patients via emergency medical services.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="EMSTrafficStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the status of EMS traffic operations</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>Accepting all EMS traffic.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Advisory"> <xs:annotation> <xs:documentation>Experiencing specific resource limitations which may affect transport of some EMS traffic.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Closed"> <xs:annotation> <xs:documentation>Requesting re-route of EMS traffic to other facilities.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="NotApplicable"> <xs:annotation> <xs:documentation>Not Applicable. This hospital does not have an emergency department.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="EMSTrafficStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element> <xs:element name="EMSTrafficReason" type="xs:string" minOccurs="0"> <xs:annotation></pre>				

```

        <xs:documentation>It is used to report the contributing factor to an EMSTraffic Status.</
xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element ref="CommentText" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element EmergencyDepartmentStatus / EMSTraffic / EMSTrafficStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Annotations	Identifies the status of EMS traffic operations		
Diagram	<p>Identifies the status of EMS traffic operations</p>		
Type	restriction of xs:string		
Properties	content:	simple	
	minOccurs:	0	
Facets	enumeration	Normal	Accepting all EMS traffic.
	enumeration	Advisory	Experiencing specific resource limitations which may affect transport of some EMS traffic.
	enumeration	Closed	Requesting re-route of EMS traffic to other facilities.
	enumeration	NotApplicable	Not Applicable. This hospital does not have an emergency department.
Source	<pre> <xs:element name="EMSTrafficStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Identifies the status of EMS traffic operations</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>Accepting all EMS traffic.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Advisory"> <xs:annotation> <xs:documentation>Experiencing specific resource limitations which may affect transport of some EMS traffic.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Closed"> <xs:annotation> <xs:documentation>Requesting re-route of EMS traffic to other facilities.</ xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="NotApplicable"> <xs:annotation> <xs:documentation>Not Applicable. This hospital does not have an emergency department.</ xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </pre>		

Element EmergencyDepartmentStatus / EMSTraffic / EMSTrafficStatusListExtension

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Used to add extensions to specified Lists

Diagram							
Type	ListExtension						
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	valueName , value , ReferencedList , DataType , URI , Description						
Children	DataType, Description, ReferencedList, URI, value, valueName						
Instance	<pre><EMSTrafficStatusListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </EMSTrafficStatusListExtension></pre>						
Source	<pre><xs:element name="EMSTrafficStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element></pre>						

Element **EmergencyDepartmentStatus** / **EMSTraffic** / **EMSTrafficReason**

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	It is used to report the contributing factor to an EMSTraffic Status.				
Diagram					
Type	xs:string				
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				
Source	<pre><xs:element name="EMSTrafficReason" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>It is used to report the contributing factor to an EMSTraffic Status.</ xs:documentation> </xs:annotation> </xs:element></pre>				

Element **EmergencyDepartmentStatus** / **EMSCapacity**

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Annotations	The number of each triage patient type the hospital can accept. QUESTION: Does it make sense to have Capacity and Census? Does an Emergency Department plan ahead for capacity of RYG and Black (dead) patients?
Diagram	
Type	TriageCount
Properties	content: complex minOccurs: 0
Model	TriageCodeListURN{0,1} , TriageCode*
Children	TriageCode, TriageCodeListURN
Instance	<pre><EMSCapacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <TriageCodeListURN>{0,1}</TriageCodeListURN> <TriageCode>{0,unbounded}</TriageCode> </EMSCapacity></pre>
Source	<pre><xs:element name="EMSCapacity" type="TriageCount" minOccurs="0"> <xs:annotation> <xs:documentation>The number of each triage patient type the hospital can accept. QUESTION: Does it make sense to have Capacity and Census? Does an Emergency Department plan ahead for capacity of RYG and Black (dead) patients?</xs:documentation> </xs:annotation> </xs:element></pre>

Element TriageCount / TriageCodeListURN

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The name of a certified list maintained by the Community of Interest (COI) for the value referenced. If no TriageCodeListURN is specified, the default list should be used. Default Value: urn:oasis:names:tc:emergency:have:1.0:triagecolorcode.
Diagram	
Type	xs:anyURI
Properties	content: simple minOccurs: 0 default: urn:oasis:names:tc:emergency:have:1.0:triagecolorcode
Source	<pre><xs:element name="TriageCodeListURN" type="xs:anyURI" default="urn:oasis:names:tc:emergency:have:1.0:triagecolorcode" minOccurs="0"> <xs:annotation> <xs:documentation>The name of a certified list maintained by the Community of Interest (COI) for the value referenced. If no TriageCodeListURN is specified, the default list should be used. Default Value: urn:oasis:names:tc:emergency:have:1.0:triagecolorcode.</xs:documentation> </xs:annotation> </xs:element></pre>

Element TriageCount / TriageCode

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The container element to specify the triage values and their quantity TODO: Create a Triage Code Type that can handle this. Fix the cardinality here too.

Diagram							
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	TriageCodeValue{0,1} , TriageCountQuantity{0,1}						
Children	TriageCodeValue, TriageCountQuantity						
Instance	<pre><TriageCode xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <TriageCodeValue>{0,1}</TriageCodeValue> <TriageCountQuantity>{0,1}</TriageCountQuantity> </TriageCode></pre>						
Source	<pre><xs:element name="TriageCode" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The container element to specify the triage values and their quantity TODO: Create a Triage Code Type that can handle this. Fix the cardinality here too.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="TriageCodeValue" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The list of values must be from the list identified in TriageCodeListURN. 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 TriageCodeValue is specified, a TriageCountQuantity element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Red"/> <xs:enumeration value="Yellow"/> <xs:enumeration value="Green"/> <xs:enumeration value="Black"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="TriageCountQuantity" type="xs:integer" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The integer value associated with the TriageCodeValue. It refers to the preceding TriageCodeValue element. If a TriageCodeValue is specified, a TriageCountQuantity element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>						

Element TriageCount / TriageCode / TriageCodeValue

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0		
Annotations	<p>The list of values must be from the list identified in TriageCodeListURN. 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 TriageCodeValue is specified, a TriageCountQuantity element must be specified.</p> <p>DARRELL - changed cardinality to 0 or 1 (was 0 or n)</p>		
Diagram			
Type	restriction of xs:string		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

	minOccurs: 0
	maxOccurs: 1
Facets	enumeration Red
	enumeration Yellow
	enumeration Green
	enumeration Black
Source	<pre><xs:element name="TriageCodeValue" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The list of values must be from the list identified in TriageCodeListURN. 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 TriageCodeValue is specified, a TriageCountQuantity element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Red"/> <xs:enumeration value="Yellow"/> <xs:enumeration value="Green"/> <xs:enumeration value="Black"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element TriageCount / TriageCode / TriageCountQuantity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The integer value associated with the TriageCodeValue. It refers to the preceding TriageCodeValue element. If a TriageCodeValue is specified, a TriageCountQuantity element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)
Diagram	<p>The integer value associated with the TriageCodeValue. It refers to the preceding TriageCodeValue element. If a...</p> <p>Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This...</p>
Type	xs:integer
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1
Source	<pre><xs:element name="TriageCountQuantity" type="xs:integer" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>The integer value associated with the TriageCodeValue. It refers to the preceding TriageCodeValue element. If a TriageCodeValue is specified, a TriageCountQuantity element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation> </xs:annotation> </xs:element></pre>

Element EmergencyDepartmentStatus / EMSCensus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The number of each triage patient type the hospital currently has.
Diagram	<p>EMSCensus Type TriageCount The number of each triage patient type the hospital currently has.</p> <p>TriageCount</p> <p>TriageCodeListURN Type xs:anyURI Default urn:oasis:names:tc:emergency:have:1.0:triacolorcode The name of a certified list maintained by the Community of Interest (COI) for the value referenced. If no...</p> <p>TriageCode 0..∞ The container element to specify the triage values and their quantity TODO: Create a Triage Code Type that can handle...</p> <p>The number of each triage patient type the overall hospital currently has.</p>
Type	TriageCount

Properties	content: complex minOccurs: 0
Model	TriageCodeListURN{0,1} , TriageCode*
Children	TriageCode, TriageCodeListURN
Instance	<pre><EMSCensus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <TriageCodeListURN>{0,1}</TriageCodeListURN> <TriageCode>{0,unbounded}</TriageCode> </EMSCensus></pre>
Source	<pre><xs:element name="EMSCensus" type="TriageCount" minOccurs="0"> <xs:annotation> <xs:documentation>The number of each triage patient type the hospital currently has.</ xs:documentation> </xs:annotation> </xs:element></pre>

Element EmergencyDepartmentStatus / EMSAmbulanceStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The container element to indicate the status and offload time for air transport capabilities.
Diagram	<p>The diagram illustrates the structure of the EMSAmbulanceStatus element. It is a container element of type Offload. Inside, it contains two child elements: EMSOffloadStatus (Type: restriction of 'xs:string') and EMSOffloadMinutes (Type: xs:integer). A note indicates that the container element is used to indicate the status and offload time for air transport capabilities. Another note explains that the offload time indicator represents the time it takes to transfer care of a patient to a hospital.</p>
Type	Offload
Properties	content: complex minOccurs: 0
Model	EMSOffloadStatus{0,1} , EMSOffloadMinutes{0,1}
Children	EMSOffloadMinutes, EMSOffloadStatus
Instance	<pre><EMSAmbulanceStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <EMSOffloadStatus>{0,1}</EMSOffloadStatus> <EMSOffloadMinutes>{0,1}</EMSOffloadMinutes> </EMSAmbulanceStatus></pre>
Source	<pre><xs:element name="EMSAmbulanceStatus" type="Offload" minOccurs="0"> <xs:annotation> <xs:documentation>The container element to indicate the status and offload time for air transport capabilities.</xs:documentation> </xs:annotation> </xs:element></pre>

Element Offload / EMSOffloadStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Indicator of offload times of ambulance capabilities.
Diagram	<p>The diagram shows the EMSOffloadStatus element as a simple element of type restriction of xs:string. It has a facet restricts: xs:string. A note indicates it is an indicator of offload times of ambulance capabilities.</p>
Type	restriction of xs:string
Properties	content: simple minOccurs: 0
Facets	enumeration Normal The time required to offload a patient is typical.

	enumeration	Delayed	The time required to offload a patient is longer than typical.
Source	<pre><xs:element name="EMSOffloadStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Indicator of offload times of ambulance capabilities.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>The time required to offload a patient is typical.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Delayed"> <xs:annotation> <xs:documentation>The time required to offload a patient is longer than typical.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>		

Element Offload / EMSOffloadMinutes

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	Average offload time in minutes.				
Diagram					
Type	xs:integer				
Properties	<table border="0"> <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				
Source	<pre><xs:element name="EMSOffloadMinutes" type="xs:integer" minOccurs="0"> <xs:annotation> <xs:documentation>Average offload time in minutes.</xs:documentation> </xs:annotation> </xs:element></pre>				

Element EmergencyDepartmentStatus / EMSAirTransportStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	The container element to indicate the status and offload time for ambulance capabilities.				
Diagram					
Type	Offload				
Properties	<table border="0"> <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	EMSOffloadStatus{0,1} , EMSOffloadMinutes{0,1}				
Children	EMSOffloadMinutes, EMSOffloadStatus				
Instance	<pre><EMSAirTransportStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <EMSOffloadStatus>{0,1}</EMSOffloadStatus> <EMSOffloadMinutes>{0,1}</EMSOffloadMinutes></pre>				

	<code></EMSAirTransportStatus></code>
Source	<code><xs:element name="EMSAirTransportStatus" type="Offload" minOccurs="0"> <xs:annotation> <xs:documentation>The container element to indicate the status and offload time for ambulance capabilities.</xs:documentation> </xs:annotation> </xs:element></code>

Element FacilityType / FacilityInformation / SecurityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	The container element for reporting status of a Health Facility.						
Diagram							
Type	SecurityStatus						
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	Security , SecurityStatusListExtension* , CommentText{0,1}						
Children	CommentText, Security, SecurityStatusListExtension						
Instance	<code><SecurityStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <Security>{1,1}</Security> <SecurityStatusListExtension>{0,unbounded}</SecurityStatusListExtension> <CommentText>{0,1}</CommentText> </SecurityStatus></code>						
Source	<code><xs:element name="SecurityStatus" type="SecurityStatus" maxOccurs="1" minOccurs="0"> <xs:annotation> <xs:documentation>The container element for reporting status of a Health Facility.</ xs:documentation> </xs:annotation> </xs:element></code>						

Element SecurityStatus / Security

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0									
Diagram										
Type	restriction of xs:string									
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple							
content:	simple									
Facets	<table border="1"> <tr> <td>enumeration</td> <td>Normal</td> <td>The hospital is operating under routine security procedures.</td> </tr> <tr> <td>enumeration</td> <td>Elevated</td> <td>The hospital has activated increased security procedures (awareness, surveillance) due to a potential threat, or specific security related event i.e. increase in local threat level, VIP, bomb threat.</td> </tr> <tr> <td>enumeration</td> <td>RestrictedAccess</td> <td>Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled entrances.</td> </tr> </table>	enumeration	Normal	The hospital is operating under routine security procedures.	enumeration	Elevated	The hospital has activated increased security procedures (awareness, surveillance) due to a potential threat, or specific security related event i.e. increase in local threat level, VIP, bomb threat.	enumeration	RestrictedAccess	Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled entrances.
enumeration	Normal	The hospital is operating under routine security procedures.								
enumeration	Elevated	The hospital has activated increased security procedures (awareness, surveillance) due to a potential threat, or specific security related event i.e. increase in local threat level, VIP, bomb threat.								
enumeration	RestrictedAccess	Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled entrances.								

	enumeration	Lockdown	Based on security needs, the hospital has activated procedures to control entry to the facility to authorized persons only.
	enumeration	Quarantine	Based on a public health emergency, the entry and exit of the facility is controlled by public health officials.
Source	<pre> <xs:element name="Security"> <xs:simpleType> <xs:annotation> <xs:documentation>The status of security procedures in the hospital.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>The hospital is operating under routine security procedures.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Elevated"> <xs:annotation> <xs:documentation>The hospital has activated increased security procedures (awareness, surveillance) due to a potential threat, or specific security related event i.e. increase in local threat level, VIP, bomb threat.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="RestrictedAccess"> <xs:annotation> <xs:documentation>Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled entrances.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Lockdown"> <xs:annotation> <xs:documentation>Based on security needs, the hospital has activated procedures to control entry to the facility to authorized persons only.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Quarantine"> <xs:annotation> <xs:documentation>Based on a public health emergency, the entry and exit of the facility is controlled by public health officials.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </pre>		

Element SecurityStatus / SecurityStatusListExtension

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Used to add extensions to specified Lists
Diagram	<p>QUESTION: What is the intent of this listing of the "lookup" types that are in the schema? Is it to provide a list of...</p> <p>QUESTION: Should there be a human-readable "label" that would be used for rendering here? e.g. a taxonomy value may be...</p>

Type	ListExtension
Properties	content: complex
	minOccurs: 0
	maxOccurs: unbounded
Model	valueName , value , ReferencedList , DataType , URI , Description
Children	DataType, Description, ReferencedList, URI, value, valueName
Instance	<pre><SecurityStatusListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </SecurityStatusListExtension></pre>
Source	<pre><xs:element name="SecurityStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element></pre>

Element FacilityType / FacilityInformation / EmergencyOperations

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>DARRELL - EARLY CONCEPT - this element attempts to capture two items that weren't carried over from HAVE v1.0 - HospitalEOCPlan and HospitalEOCStatus.</p> <p>I put these as FacilityInformation sub-elements as that feels like the best place for them - they are facility-dependent and don't really fall under another item though some may argue they fall under Security, which isn't correct IMHO.</p> <p>I haven't rationalized the sub-element types or created a EmergencyOperationsType or anything yet - just getting the concept out.</p>
Diagram	<p>The diagram shows a central 'EmergencyOperations' element containing two sub-elements: 'EOCPlan' and 'EOCStatus'. A text box next to the diagram repeats the annotation: 'DARRELL - EARLY CONCEPT - this element attempts to capture two items that weren't carried over from HAVE v1.0 - ...'</p>
Properties	content: complex
	minOccurs: 0
Model	EOCPlan , EOCStatus
Children	EOCPlan, EOCStatus
Instance	<pre><EmergencyOperations xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <EOCPlan>{1,1}</EOCPlan> <EOCStatus>{1,1}</EOCStatus> </EmergencyOperations></pre>
Source	<pre><xs:element name="EmergencyOperations" minOccurs="0"> <xs:annotation> <xs:documentation>DARRELL - EARLY CONCEPT - this element attempts to capture two items that weren't carried over from HAVE v1.0 - HospitalEOCPlan and HospitalEOCStatus. I put these as FacilityInformation sub-elements as that feels like the best place for them - they are facility-dependent and don't really fall under another item though some may argue they fall under Security, which isn't correct IMHO. I haven't rationalized the sub-element types or created a EmergencyOperationsType or anything yet - just getting the concept out.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="EOCPlan"/> <xs:element name="EOCStatus"/> </xs:sequence> </xs:complexType> </xs:element></pre>

Element FacilityType / FacilityInformation / EmergencyOperations / EOCPlan

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Diagram	
Source	<code><xs:element name="EOCPlan" /></code>

Element FacilityType / FacilityInformation / EmergencyOperations / EOCStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Source	<code><xs:element name="EOCStatus" /></code>

Element FacilityType / FacilityInformation / Helipad

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Indication that facility has helipad facilities. QUESTION: Do we just need a boolean here, or should be expand this and add a bit more information about the helipad?
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0
Source	<code><xs:element minOccurs="0" name="Helipad" type="xs:string"> <xs:annotation> <xs:documentation>Indication that facility has helipad facilities. QUESTION: Do we just need a boolean here, or should be expand this and add a bit more information about the helipad?</xs:documentation> </xs:annotation> </xs:element></code>

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 blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?
Diagram	
Type	TimeRange
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Instance	<code><ReportingPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </ReportingPeriod></code>
Source	<code><xs:element name="ReportingPeriod" type="TimeRange"> <xs:annotation> <xs:documentation>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</code>

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operational reasons. If blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?</
xs:documentation>
</xs:annotation>
</xs:element>

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Element FacilityType / ActivityInPeriod

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	DARRELL - Activity24hr was missing from HAVE 1.0. The container element for reporting activities in the last 24 hours.
Diagram	<p>DARRELL - Activity24hr was missing from HAVE 1.0. The container element for reporting activities in the last 24 hours.</p> <p>One or more comments that indicate what is driving the status that is indicated.</p>
Properties	content: complex minOccurs: 0
Model	Admissions{0,1} , Discharges{0,1} , Deaths{0,1} , CommentText
Children	Admissions, CommentText, Deaths, Discharges
Instance	<pre> <ActivityInPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <Admissions>{0,1}</Admissions> <Discharges>{0,1}</Discharges> <Deaths>{0,1}</Deaths> <CommentText>{1,1}</CommentText> </ActivityInPeriod> </pre>
Source	<pre> <xs:element minOccurs="0" name="ActivityInPeriod"> <xs:annotation> <xs:documentation>DARRELL - Activity24hr was missing from HAVE 1.0. The container element for reporting activities in the last 24 hours.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element minOccurs="0" name="Admissions"/> <xs:element minOccurs="0" name="Discharges"/> <xs:element minOccurs="0" name="Deaths"/> <xs:element ref="CommentText"/> </xs:sequence> </xs:complexType> </xs:element> </pre>

Element FacilityType / ActivityInPeriod / Admissions


Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Properties	minOccurs: 0
Source	<pre> <xs:element minOccurs="0" name="Admissions"/> </pre>

Element FacilityType / ActivityInPeriod / Discharges

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Properties	minOccurs: 0
Source	<pre> <xs:element minOccurs="0" name="Discharges"/> </pre>

Element FacilityType / ActivityInPeriod / Deaths

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Diagram	
Properties	minOccurs: 0
Source	<xs:element minOccurs="0" name="Deaths" />

Element FacilityType / Services

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>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.</p> <p>DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Services set?</p> <p>DARRELL - to me this belongs under Facility (child element). The Organization can aggregate for all of their facilities if they need an organization level view.</p>
Diagram	
Properties	<p>content: complex</p> <p>maxOccurs: 1</p>
Model	CurrentServicesOffered , FutureServicesPeriod* , ServicesPeriod24Hrs{0,1} , ServicesPeriod48Hrs{0,1} , ServicesPeriod72Hrs{0,1} , ServicesPeriodn{0,1}
Children	CurrentServicesOffered, FutureServicesPeriod, ServicesPeriod24Hrs, ServicesPeriod48Hrs, ServicesPeriod72Hrs, ServicesPeriodn
Instance	<pre><Services xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <CurrentServicesOffered>{1,1}</CurrentServicesOffered> <FutureServicesPeriod>{0,unbounded}</FutureServicesPeriod> <ServicesPeriod24Hrs>{0,1}</ServicesPeriod24Hrs> <ServicesPeriod48Hrs>{0,1}</ServicesPeriod48Hrs> <ServicesPeriod72Hrs>{0,1}</ServicesPeriod72Hrs> <ServicesPeriodn>{0,1}</ServicesPeriodn> </Services></pre>
Source	<pre><xs:element name="Services" maxOccurs="1"> <xs:annotation> <xs:documentation>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. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Services set?</xs:documentation> <xs:documentation>DARRELL - to me this belongs under Facility (child element). The Organization can aggregate for all of their facilities if they need an organization level view.</xs:documentation> </xs:annotation> <xs:complexType></pre>

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<xs:sequence>
  <xs:element name="CurrentServicesOffered" type="ServicesType" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>Range of services offered by the facility for the reporting period
indicated CurrentServicesOffered/ReportingPeriod NOTE: Changed cardinality from 1:n to 1:1 - why
would we need many of these?</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element maxOccurs="unbounded" minOccurs="0" name="FutureServicesPeriod"
type="FutureServicesType">
    <xs:annotation>
      <xs:documentation>IDEA: Use a TimePeriodType to indicate the time range of the estimated/
predicted ... things? TODO: Rationalize what things need to be predicted/estimated - starting with
concepts in the ServicesPeriod* (24...n) TODO: Q: Does this time period information really belong
here or does it belong at the Facility level - we aren't really just talking about Services.</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ServicesPeriod24Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
      <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
projected to be available during the next 24 hours (TODO: Discuss with HAVE SC - what is the intent
here? It seems to add complexity and it may be worth it but I (darrell) don't quite get it. I can
see a group wanting to report on future plans/situation/outcomes but I'm not able to wrap my head
around this quite yet.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ServicesPeriod48Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
      <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
projected to be available during the next 48 hours QUESTION: Does anyone find this ambiguous? If I
have filed 24hr report does the 48hr mean in the 24-48hr period only?</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ServicesPeriod72Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
      <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
projected to be available during the next 72 hours BROKEN - the Capacity Element under here has
24/48/72 hour information.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ServicesPeriodn" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
      <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
projected to be available during the next nn hours</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Element FacilityType / Services / CurrentServicesOffered

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Range of services offered by the facility for the reporting period indicated CurrentServicesOffered/ ReportingPeriod NOTE: Changed cardinality from 1:n to 1:1 - why would we need many of these?
Diagram	<p>The diagram illustrates the structure of the ServicesType container element. It contains two child elements: ServiceList and CommentText. Both child elements have a cardinality of 0..∞. The ServiceList element is annotated with the text: "DARRELL: I am working in this area to see how we can have an extensible list here that can support validation. OLDER...". The CommentText element is annotated with: "One or more comments that indicate what is driving the status that is indicated." A note at the bottom states: "Container element of all the elements of service coverage. This includes both the necessary staff and facilities...".</p>
Type	ServicesType


Properties	content: complex maxOccurs: 1
Model	ServiceList*, CommentText*
Children	CommentText, ServiceList
Instance	<pre><CurrentServicesOffered xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ServiceList TaxonomyName="HAVE1.0" TaxonomyURI="urn:oasis:edxl:have:1.0">{0,unbounded}</ ServiceList> <CommentText>{0,unbounded}</CommentText> </CurrentServicesOffered></pre>
Source	<pre><xs:element name="CurrentServicesOffered" type="ServicesType" maxOccurs="1"> <xs:annotation> <xs:documentation>Range of services offered by the facility for the reporting period indicated CurrentServicesOffered/ReportingPeriod NOTE: Changed cardinality from 1:n to 1:1 - why would we need many of these?</xs:documentation> </xs:annotation> </xs:element></pre>

Element ServicesType / ServiceList

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0																				
Annotations	<p>DARRELL: I am working in this area to see how we can have an extensible list here that can support validation.</p> <p>OLDER NOTE: I don't know how to do this but we need to be able to extend the list of Services that are tracked, ideally with a community-managed taxonomy of some kind. Values such as Critical Care, Neonatal ICU, ICU, Acute Stroke, and more are missing from the generalized list and many jurisdictions will have their own list of key services. Counter to this concept, I agree that we need a starting point and the HAVE 1.0 list of elements is good - but the structure doesn't allow for extension nor replacement of the main lists.</p> <p>IDEA: Create an enumeration that fulfils HAVE 1.0 as a starting point and build it into the standard but allow a group to replace the list?</p>																				
Diagram																					
Properties	content: complex minOccurs: 0 maxOccurs: unbounded																				
Model	ServiceTaxonomyComment{0,1} , ServiceListItem*																				
Children	ServiceListItem, ServiceTaxonomyComment																				
Instance	<pre><ServiceList TaxonomyName="HAVE1.0" TaxonomyURI="urn:oasis:edxl:have:1.0" xmlns="urn:oasis:names:tc:emergency:EDXL"> <ServiceTaxonomyComment>{0,1}</ServiceTaxonomyComment> <ServiceListItem>{0,unbounded}</ServiceListItem> </ServiceList></pre>																				
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>TaxonomyName</td> <td></td> <td></td> <td>HAVE1.0</td> <td>optional</td> </tr> <tr> <td></td> <td colspan="4">Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.</td> </tr> <tr> <td>TaxonomyURI</td> <td></td> <td></td> <td>urn:oasis:edxl:have:1.0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	TaxonomyName			HAVE1.0	optional		Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.				TaxonomyURI			urn:oasis:edxl:have:1.0	optional
QName	Type	Fixed	Default	Use																	
TaxonomyName			HAVE1.0	optional																	
	Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.																				
TaxonomyURI			urn:oasis:edxl:have:1.0	optional																	

	QName	Type	Fixed	Default	Use
		A URI pointing at the Taxonomy. The URI should resolve to a human-readable listing of the taxonomy values used, including definitions, intent of the taxonomy, etc.			
Source	<pre> <xs:element name="ServiceList" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation>DARRELL: I am working in this area to see how we can have an extensible list here that can support validation. OLDER NOTE: I don't know how to do this but we need to be able to extend the list of Services that are tracked, ideally with a community-managed taxonomy of some kind. Values such as Critical Care, Neonatal ICU, ICU, Acute Stroke, and more are missing from the generalized list and many jurisdictions will have their own list of key services. Counter to this concept, I agree that we need a starting point and the HAVE 1.0 list of elements is good - but the structure doesn't allow for extension nor replacement of the main lists. IDEA: Create an enumeration that fulfils HAVE 1.0 as a starting point and build it into the standard but allow a group to replace the list?</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="ServiceTaxonomyComment" minOccurs="0"> <xs:annotation> <xs:documentation>A comment describing the taxonomy that is in use here.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:element maxOccurs="unbounded" minOccurs="0" name="ServiceListItem" type="ServiceType"> </xs:element> </xs:sequence> <xs:attribute name="TaxonomyName" default="HAVE1.0"> <xs:annotation> <xs:documentation>Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desireable.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="TaxonomyURI" default="urn:oasis:edxl:have:1.0"> <xs:annotation> <xs:documentation>A URI pointing at the Taxonomy. The URI should resolve to a human-readable listing of the taxonomy values used, including definitions, intent of the taxonomy, etc.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>				

Element ServiceType / ServiceList / ServiceTaxonomyComment

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	A comment describing the taxonomy that is in use here.
Diagram	
Properties	minOccurs: 0
Source	<pre> <xs:element name="ServiceTaxonomyComment" minOccurs="0"> <xs:annotation> <xs:documentation>A comment describing the taxonomy that is in use here.</xs:documentation> </xs:annotation> </xs:element> </pre>

Element ServiceType / ServiceList / ServiceListItem

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Diagram							
Type	ServiceType						
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	ServiceValueType , ServiceName , Available , ServiceStatus{0,1} , ServiceCapacity{0,1}						
Children	Available, ServiceCapacity, ServiceName, ServiceStatus, ServiceValueType						
Instance	<pre><ServiceListitem xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ServiceValueType>{1,1}</ServiceValueType> <ServiceName>{1,1}</ServiceName> <Available>{1,1}</Available> <ServiceStatus>{0,1}</ServiceStatus> <ServiceCapacity>{0,1}</ServiceCapacity> </ServiceListitem></pre>						
Source	<pre><xs:element maxOccurs="unbounded" minOccurs="0" name="ServiceListitem" type="ServiceType"> </xs:element></pre>						

Element ServiceType / ServiceValueType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Extensible list of services based on a URI (ValueListURI) and Value.
Diagram	
Type	ServiceValueType
Type hierarchy	<ul style="list-style-type: none"> ct:ValueKeyType ServiceValueType
Properties	content: complex
Model	ct:ValueListURI , ct:Value
Children	ct:Value, ct:ValueListURI

Instance	<pre><ServiceValueType xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0" xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct" <ct:ValueListURI>{1,1}</ct:ValueListURI> <ct:Value>{1,1}</ct:Value> </ServiceValueType></pre>
Source	<pre><xs:element name="ServiceValueType" type="ServiceValueKeyType"> <xs:annotation> <xs:documentation>Extensible list of services based on a URI (ValueListURI) and Value.</ xs:documentation> </xs:annotation> </xs:element></pre>

Element ServiceType / ServiceName

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>TO DO: Get Multilingual name going here.</p> <p>QUESTION: Should this be included in the Service Taxonomy?</p>
Diagram	
Type	xs:string
Properties	content: simple
Source	<pre><xs:element name="ServiceName" type="xs:string"> <xs:annotation> <xs:documentation>TO DO: Get Multilingual name going here. QUESTION: Should this be included in the Service Taxonomy?</xs:documentation> </xs:annotation> </xs:element></pre>

Element ServiceType / Available

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	xs:boolean
Properties	content: simple
Source	<pre><xs:element name="Available" type="xs:boolean"/></pre>

Element ServiceType / ServiceStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Diagram	
Type	StatusType
Properties	content: complex minOccurs: 0
Model	ALL(Status Colour{0,1} StatusLevel{0,1} CommentText{0,1} Stability{0,1})
Children	Colour, CommentText, Stability, Status, StatusLevel
Instance	<pre><ServiceStatus xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <Status>{1,1}</Status> <Colour>{0,1}</Colour> <StatusLevel>{0,1}</StatusLevel> <CommentText>{0,1}</CommentText> <Stability>{0,1}</Stability> </ServiceStatus></pre>
Source	<pre><xs:element name="ServiceStatus" type="StatusType" minOccurs="0"/></pre>

Element StatusType / Status

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Human-readable value that indicates the status.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1
Source	<pre><xs:element minOccurs="1" name="Status" type="xs:string"> <xs:annotation> <xs:documentation>Human-readable value that indicates the status.</xs:documentation> </xs:annotation> </xs:element></pre>

Element StatusType / Colour

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Colour (text-based) of the status. By default triage colours of green, yellow, red, black are supported.

	QUESTION: does this need to be more formalized with an enumeration? Example in wild (LHIN) has green, yellow, orange, and red as well.				
Diagram					
Type	xs:string				
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				
Source	<pre><xs:element name="Colour" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Colour (text-based) of the status. By default triage colours of green, yellow, red, black are supported. QUESTION: does this need to be more formalized with an enumeration? Example in wild (LHIN) has green, yellow, orange, and red as well.</xs:documentation> </xs:annotation> </xs:element></pre>				

Element StatusType / StatusLevel

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Diagram					
Type	xs:int				
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				
Source	<pre><xs:element minOccurs="0" name="StatusLevel" type="xs:int"/></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							
Type	StabilityType						
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>enumeration</td> <td>stable</td> </tr> <tr> <td>enumeration</td> <td>improving</td> </tr> <tr> <td>enumeration</td> <td>deteriorating</td> </tr> </table>	enumeration	stable	enumeration	improving	enumeration	deteriorating
enumeration	stable						
enumeration	improving						
enumeration	deteriorating						
Source	<pre><xs:element minOccurs="0" name="Stability" type="StabilityType"> <xs:annotation> <xs:documentation>Indication that the Status is stable, improving, or deteriorating</xs:documentation> </xs:annotation> </xs:element></pre>						

Element ServiceType / ServiceCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	QUESTION: How detailed do we need to be here? This is beginning to look and smell like an internal planning capability for a hospital. Perhaps some of the detail belongs in an HL7 type of system?

<p>Diagram</p>	
<p>Type</p>	<p>BedCapacity</p>
<p>Properties</p>	<p>content: complex minOccurs: 0</p>
<p>Model</p>	<p>CapacityStatus{0,1} , AvailableCount{0,1} , BaselineCount{0,1} , AdditionalCapacityCount24Hr{0,1} , AdditionalCapacityCount72Hr{0,1} , CapacityListExtension*</p>
<p>Children</p>	<p>AdditionalCapacityCount24Hr, AdditionalCapacityCount72Hr, AvailableCount, BaselineCount, CapacityListExtension, CapacityStatus</p>
<p>Instance</p>	<pre><ServiceCapacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <CapacityStatus>{0,1}</CapacityStatus> <AvailableCount>{0,1}</AvailableCount> <BaselineCount>{0,1}</BaselineCount> <AdditionalCapacityCount24Hr>{0,1}</AdditionalCapacityCount24Hr> <AdditionalCapacityCount72Hr>{0,1}</AdditionalCapacityCount72Hr> <CapacityListExtension>{0,unbounded}</CapacityListExtension> </ServiceCapacity></pre>
<p>Source</p>	<pre><xs:element name="ServiceCapacity" type="BedCapacity" minOccurs="0"> <xs:annotation> <xs:documentation>QUESTION: How detailed do we need to be here? This is beginning to look and smell like an internal planning capability for a hospital. Perhaps some of the detail belongs in an HL7 type of system?</xs:documentation> </xs:annotation> </xs:element></pre>

Element BedCapacity / CapacityStatus

<p>Namespace</p>	<p>urn:oasis:names:tc:emergency:EDXL:HAVE:2.0</p>
<p>Annotations</p>	<p>Indicator of status of bed type or sub-category bed type. QUESTION: Is "Vacant" really useful as opposed to "Available" - though they are similar, they aren't quite the same.</p>
<p>Diagram</p>	

Type	restriction of xs:string
Properties	content: simple
	minOccurs: 0
Facets	enumeration Vacant/Available
	enumeration NotAvailable
Source	<pre><xs:element name="CapacityStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Indicator of status of bed type or sub-category bed type. QUESTION: Is "Vacant" really useful as opposed to "Available" - though they are similar, they aren't quite the same.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Vacant/Available"/> <xs:enumeration value="NotAvailable"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

Element BedCapacity / AvailableCount

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The number of vacant/available beds to which patients can be immediately transported. 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.
Diagram	
Type	xs:integer
Properties	content: simple
	minOccurs: 0
Source	<pre><xs:element name="AvailableCount" type="xs:integer" minOccurs="0"> <xs:annotation> <xs:documentation>The number of vacant/available beds to which patients can be immediately transported. 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.</ xs:documentation> </xs:annotation> </xs:element></pre>

Element BedCapacity / BaselineCount

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The maximum (baseline) number of beds in this category.
Diagram	
Type	xs:integer
Properties	content: simple
	minOccurs: 0
Source	<pre><xs:element name="BaselineCount" type="xs:integer" minOccurs="0"> <xs:annotation> <xs:documentation>The maximum (baseline) number of beds in this category.</xs:documentation> </xs:annotation> </xs:element></pre>

Element BedCapacity / AdditionalCapacityCount24Hr

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	<p>QUESTION: Is this redundant? - This is a time period based value. The concept of ReportingPeriod is different though as it really is intended to portray the predicted and planned status in a different time period. The concept of "surge capacity" is more of a "if we had to."</p> <p>Estimate how many beds above the current number could be made vacant/available within 24 hours. This includes institutional surge beds as well as beds made available by discharging/transferring patients.</p>				
Diagram	<p>QUESTION: Is this redundant? - This is a time period based value. The concept of ReportingPeriod is different though as...</p> <p>Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This...</p>				
Type	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				
Source	<pre><xs:element name="AdditionalCapacityCount24Hr" type="xs:integer" minOccurs="0"> <xs:annotation> <xs:documentation>QUESTION: Is this redundant? - This is a time period based value. The concept of ReportingPeriod is different though as it really is intended to portray the predicted and planned status in a different time period. The concept of "surge capacity" is more of a "if we had to." Estimate how many beds above the current number could be made vacant/available within 24 hours. This includes institutional surge beds as well as beds made available by discharging/ transferring patients.</xs:documentation> </xs:annotation> </xs:element></pre>				

Element BedCapacity / AdditionalCapacityCount72Hr

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	<p>Estimate how many beds above the current number could be made vacant/available within 72 hours. This includes institutional surge beds as well as beds made available by discharging/transferring patients.</p>				
Diagram	<p>Estimate how many beds above the current number could be made vacant/available within 72 hours. This includes...</p> <p>Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This...</p>				
Type	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				
Source	<pre><xs:element name="AdditionalCapacityCount72Hr" type="xs:integer" minOccurs="0"> <xs:annotation> <xs:documentation>Estimate how many beds above the current number could be made vacant/ available within 72 hours. This includes institutional surge beds as well as beds made available by discharging/transferring patients.</xs:documentation> </xs:annotation> </xs:element></pre>				

Element BedCapacity / CapacityListExtension

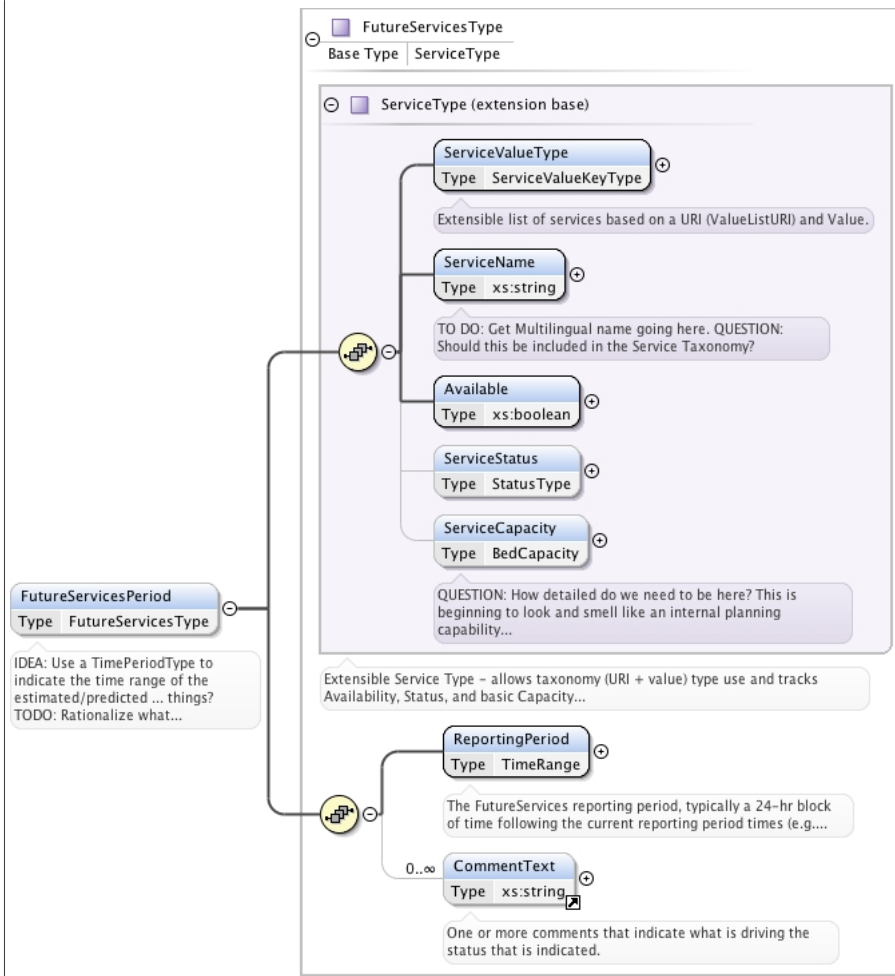
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>Used to add extensions to specified Lists</p> <p>QUESTION: examples???</p>

Diagram							
Type	ListExtension						
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	valueName , value , ReferencedList , DataType , URI , Description						
Children	DataType, Description, ReferencedList, URI, value, valueName						
Instance	<pre><CapacityListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </CapacityListExtension></pre>						
Source	<pre><xs:element name="CapacityListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists QUESTION: examples???<!--> </xs:annotation> </xs:element></pre--> </pre>						

Element FacilityType / Services / FutureServicesPeriod

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>IDEA: Use a TimePeriodType to indicate the time range of the estimated/predicted ... things?</p> <p>TODO: Rationalize what things need to be predicted/estimated - starting with concepts in the ServicesPeriod* (24..n)</p> <p>TODO: Q: Does this time period information really belong here or does it belong at the Facility level - we aren't really just talking about Services.</p>

Diagram



Type	FutureServicesType						
Type hierarchy	<ul style="list-style-type: none"> ServiceType FutureServicesType 						
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	ServiceValueType , ServiceName , Available , ServiceStatus{0,1} , ServiceCapacity{0,1} , ReportingPeriod , CommentText*						
Children	Available, CommentText, ReportingPeriod, ServiceCapacity, ServiceName, ServiceStatus, ServiceValueType						
Instance	<pre> <FutureServicesPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ServiceValueType>{1,1}</ServiceValueType> <ServiceName>{1,1}</ServiceName> <Available>{1,1}</Available> <ServiceStatus>{0,1}</ServiceStatus> <ServiceCapacity>{0,1}</ServiceCapacity> <ReportingPeriod>{1,1}</ReportingPeriod> <CommentText>{0,unbounded}</CommentText> </FutureServicesPeriod> </pre>						
Source	<pre> <xs:element maxOccurs="unbounded" minOccurs="0" name="FutureServicesPeriod" type="FutureServicesType"> <xs:annotation> <xs:documentation>IDEA: Use a TimePeriodType to indicate the time range of the estimated/ predicted ... things? TODO: Rationalize what things need to be predicted/estimated - starting with concepts in the ServicesPeriod* (24...n) TODO: Q: Does this time period information really belong here or does it belong at the Facility level - we aren't really just talking about Services.</ xs:documentation> </xs:annotation> </xs:element> </pre>						

Element FutureServicesType / ReportingPeriod

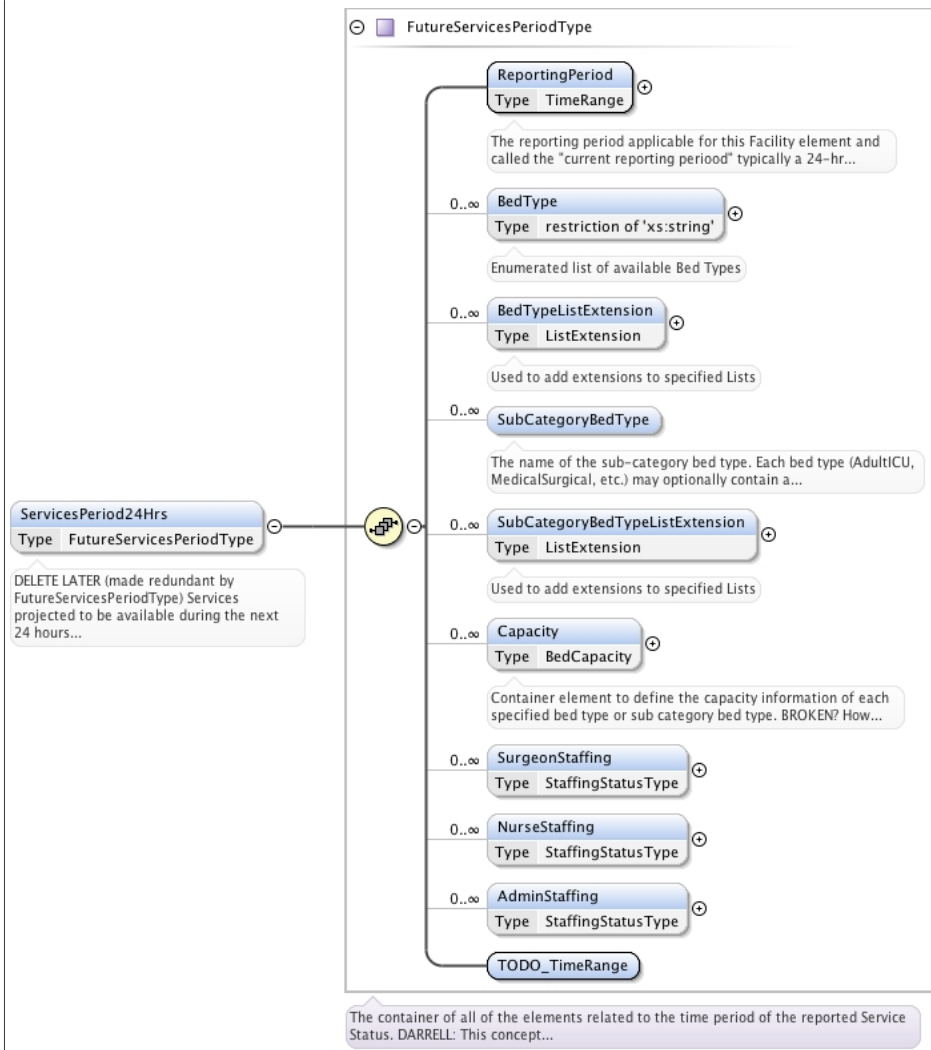
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Annotations	The FutureServices reporting period, typically a 24-hr block of time following the current reporting period times (e.g. noon to noon)
Diagram	
Type	TimeRange
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Instance	<pre><ReportingPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </ReportingPeriod></pre>
Source	<pre><xs:element name="ReportingPeriod" type="TimeRange"> <xs:annotation> <xs:documentation>The FutureServices reporting period, typically a 24-hr block of time following the current reporting period times (e.g. noon to noon)</xs:documentation> </xs:annotation> </xs:element></pre>

Element FacilityType / Services / ServicesPeriod24Hrs

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>DELETE LATER (made redundant by FutureServicesPeriodType)</p> <p>Services projected to be available during the next 24 hours</p> <p>TODO: Discuss with HAVE SC - what is the intent here? It seems to add complexity and it may be worth it but I (darrell) don't quite get it. I can see a group wanting to report on future plans/situation/outcomes but I'm not able to wrap my head around this quite yet.</p>

Diagram



Type	FutureServicesPeriodType						
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	ReportingPeriod , BedType* , BedTypeListExtension* , SubCategoryBedType* , SubCategoryBedTypeListExtension* , Capacity* , SurgeonStaffing* , NurseStaffing* , AdminStaffing* , TODO_TimeRange						
Children	AdminStaffing, BedType, BedTypeListExtension, Capacity, NurseStaffing, ReportingPeriod, SubCategoryBedType, SubCategoryBedTypeListExtension, SurgeonStaffing, TODO_TimeRange						
Instance	<pre><ServicesPeriod24Hrs xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ReportingPeriod>{1,1}</ReportingPeriod> <BedType>{0,unbounded}</BedType> <BedTypeListExtension>{0,unbounded}</BedTypeListExtension> <SubCategoryBedType>{0,unbounded}</SubCategoryBedType> <SubCategoryBedTypeListExtension>{0,unbounded}</SubCategoryBedTypeListExtension> <Capacity>{0,unbounded}</Capacity> <SurgeonStaffing>{0,unbounded}</SurgeonStaffing> <NurseStaffing>{0,unbounded}</NurseStaffing> <AdminStaffing>{0,unbounded}</AdminStaffing> <TODO_TimeRange>{1,1}</TODO_TimeRange> </ServicesPeriod24Hrs></pre>						
Source	<pre><xs:element name="ServicesPeriod24Hrs" type="FutureServicesPeriodType" maxOccurs="1" minOccurs="0"> <xs:annotation> <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next 24 hours TODO: Discuss with HAVE SC - what is the intent here? It seems to add complexity and it may be worth it but I (darrell) don't quite get it. I can see a group wanting to report on future plans/situation/outcomes but I'm not able to wrap my head around this quite yet.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element FutureServicesPeriodType / 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. Must not be blank for ServicesPeriodType since it is future looking.
Diagram	<p>The diagram shows a class diagram for the ReportingPeriod element. It is of type TimeRange and contains two child elements: StartDateTime and EndDateTime, both of type xs:dateTime. A callout box explains that the reporting period is typically a 24-hour period. Another callout box suggests replacing it with TimePeriodType (CT) for complete reports or current and forecast values.</p>
Type	TimeRange
Properties	content: complex
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Instance	<pre><ReportingPeriod xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <StartDateTime>{1,1}</StartDateTime> <EndDateTime>{1,1}</EndDateTime> </ReportingPeriod></pre>
Source	<pre><xs:element name="ReportingPeriod" type="TimeRange"> <xs:annotation> <xs:documentation>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. Must not be blank for ServicesPeriodType since it is future looking.</xs:documentation> </xs:annotation> </xs:element></pre>

Element FutureServicesPeriodType / BedType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0																								
Annotations	Enumerated list of available Bed Types																								
Diagram	<p>The diagram shows a class diagram for the BedType element. It is a restriction of the type xs:string. A callout box explains that it is an enumerated list of available Bed Types.</p>																								
Type	restriction of xs:string																								
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> <tr> <td>block:</td> <td>restriction</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	unbounded	block:	restriction																
content:	simple																								
minOccurs:	0																								
maxOccurs:	unbounded																								
block:	restriction																								
Facets	<table border="1"> <tr> <td>enumeration</td> <td>AdultICU</td> <td>These can support critically ill or injured patients, including ventilator support. This category includes all major subtypes of ICU beds, including neuro, cardiac, trauma, or medical, with the exception that this category does not include burn ICU beds.</td> </tr> <tr> <td>enumeration</td> <td>PediatricICU</td> <td></td> </tr> <tr> <td>enumeration</td> <td>NeonatalICU</td> <td></td> </tr> <tr> <td>enumeration</td> <td>EmergencyDepartment</td> <td></td> </tr> <tr> <td>enumeration</td> <td>NurseryBeds</td> <td></td> </tr> <tr> <td>enumeration</td> <td>MedicalSurgical</td> <td>These are also thought of as ward beds. These beds may or may not include cardiac telemetry capability.</td> </tr> <tr> <td>enumeration</td> <td>RehabLongTermCare</td> <td></td> </tr> <tr> <td>enumeration</td> <td>Burn</td> <td>These are thought of as burn ICU beds, either approved by the American Burn Association</td> </tr> </table>	enumeration	AdultICU	These can support critically ill or injured patients, including ventilator support. This category includes all major subtypes of ICU beds, including neuro, cardiac, trauma, or medical, with the exception that this category does not include burn ICU beds.	enumeration	PediatricICU		enumeration	NeonatalICU		enumeration	EmergencyDepartment		enumeration	NurseryBeds		enumeration	MedicalSurgical	These are also thought of as ward beds. These beds may or may not include cardiac telemetry capability.	enumeration	RehabLongTermCare		enumeration	Burn	These are thought of as burn ICU beds, either approved by the American Burn Association
enumeration	AdultICU	These can support critically ill or injured patients, including ventilator support. This category includes all major subtypes of ICU beds, including neuro, cardiac, trauma, or medical, with the exception that this category does not include burn ICU beds.																							
enumeration	PediatricICU																								
enumeration	NeonatalICU																								
enumeration	EmergencyDepartment																								
enumeration	NurseryBeds																								
enumeration	MedicalSurgical	These are also thought of as ward beds. These beds may or may not include cardiac telemetry capability.																							
enumeration	RehabLongTermCare																								
enumeration	Burn	These are thought of as burn ICU beds, either approved by the American Burn Association																							

		or self-designated. These beds are NOT to be included in other ICU bed counts.
enumeration	Pediatrics	Capacity status for pediatrics beds. These are ward medical/surgical beds for patients 17-years-old and younger.
enumeration	AdultPsychiatric	Capacity status for psychiatric beds. These are ward beds on a closed/locked psychiatric unit or ward beds where a patient will be attended by a sitter.
enumeration	PediatricPsychiatric	
enumeration	NegativeFlowIsolation	Capacity status for negative airflow isolation beds. These provide respiratory isolation. NOTE: This value may represent available beds included in the counts of other types.
enumeration	OtherIsolation	Capacity status for other isolation beds. These provide isolation where airflow is not a concern. NOTE: This value may represent available beds included in the counts of other types.
enumeration	OperatingRooms	Capacity status for operating rooms which are equipped staffed and could be made available for patient care in a short period of time.
Source	<pre> <xs:element name="BedType" block="restriction" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Enumerated list of available Bed Types</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="AdultICU"> <xs:annotation> <xs:documentation>These can support critically ill or injured patients, including ventilator support. This category includes all major subtypes of ICU beds, including neuro, cardiac, trauma, or medical, with the exception that this category does not include burn ICU beds.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="PediatricICU"/> <xs:enumeration value="NeonatalICU"/> <xs:enumeration value="EmergencyDepartment"/> <xs:enumeration value="NurseryBeds"/> <xs:enumeration value="MedicalSurgical"> <xs:annotation> <xs:documentation>These are also thought of as ward beds. These beds may or may not include cardiac telemetry capability.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="RehabLongTermCare"/> <xs:enumeration value="Burn"> <xs:annotation> <xs:documentation>These are thought of as burn ICU beds, either approved by the American Burn Association or self-designated. These beds are NOT to be included in other ICU bed counts.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Pediatrics"> <xs:annotation> <xs:documentation>Capacity status for pediatrics beds. These are ward medical/surgical beds for patients 17-years-old and younger.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="AdultPsychiatric"> <xs:annotation> <xs:documentation>Capacity status for psychiatric beds. These are ward beds on a closed/locked psychiatric unit or ward beds where a patient will be attended by a sitter.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="PediatricPsychiatric"/> <xs:enumeration value="NegativeFlowIsolation"> <xs:annotation> <xs:documentation>Capacity status for negative airflow isolation beds. These provide respiratory isolation. NOTE: This value may represent available beds included in the counts of other types.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="OtherIsolation"> <xs:annotation> </pre>	

```

        <xs:documentation>Capacity status for other isolation beds. These provide isolation where
        airflow is not a concern. NOTE: This value may represent available beds included in the counts of
        other types.</xs:documentation>
    </xs:annotation>
</xs:enumeration>
<xs:enumeration value="OperatingRooms">
    <xs:annotation>
        <xs:documentation>Capacity status for operating rooms which are equipped staffed and could
        be made available for patient care in a short period of time.</xs:documentation>
    </xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:element>
    
```

Element FutureServicesPeriodType / BedTypeListExtension

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	Used to add extensions to specified Lists						
Diagram							
Type	ListExtension						
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	valueName , value , ReferencedList , DataType , URI , Description						
Children	DataType, Description, ReferencedList, URI, value, valueName						
Instance	<pre> <BedTypeListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </BedTypeListExtension> </pre>						
Source	<pre> <xs:element name="BedTypeListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element> </pre>						

Element FutureServicesPeriodType / SubCategoryBedType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The name of the sub-category bed type. Each bed type (AdultICU, MedicalSurgical, etc.) may optionally contain a collection of named sub-categories. Each bed type may have many one or more named sub-type categories. - If one or more sub category bed types are used, they must be preceded by the parent BedType element. In this case, CapacityStatus of the Bed Type CANNOT be

	Not Available. Each parent BedType element and its associated sub-category bed types must be encapsulated with a BedCapacity element. If the capacity counts of sub-category beds are specified, they need not equal the capacity count of the parent bed type. In general, if capacities of are specified using sub-category bed types, then only the CapacityStatus of the parent bed type should be used, and this should reflect an Available value.						
Diagram	<p>The name of the sub-category bed type. Each bed type (AdultICU, MedicalSurgical, etc.) may optionally contain a...</p>						
Properties	<table border="1"> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> <tr> <td>block:</td> <td>extension</td> </tr> </table>	minOccurs:	0	maxOccurs:	unbounded	block:	extension
minOccurs:	0						
maxOccurs:	unbounded						
block:	extension						
Source	<pre><xs:element name="SubCategoryBedType" block="extension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>The name of the sub-category bed type. Each bed type (AdultICU, MedicalSurgical, etc.) may optionally contain a collection of named sub-categories. Each bed type may have many one or more named sub-type categories. - If one or more sub category bed types are used, they must be preceded by the parent BedType element. In this case, CapacityStatus of the Bed Type CANNOT be Not Available. Each parent BedType element and its associated sub-category bed types must be encapsulated with a BedCapacity element. If the capacity counts of sub-category beds are specified, they need not equal the capacity count of the parent bed type. In general, if capacities of are specified using sub-category bed types, then only the CapacityStatus of the parent bed type should be used, and this should reflect an Available value.</xs:documentation> </xs:annotation> </xs:element></pre>						

Element FutureServicesPeriodType / SubCategoryBedTypeListExtension

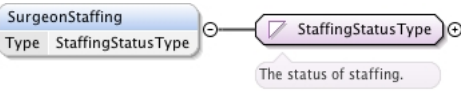
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	Used to add extensions to specified Lists						
Diagram	<p>SubCategoryBedTypeListExtension Type ListExtension Used to add extensions to specified Lists</p> <p>QUESTION: What is the intent of this listing of the "lookup" types that are in the schema? Is it to provide a list of...</p> <p>QUESTION: Should there be a human-readable "label" that would be used for rendering here? e.g. a taxonomy value may be...</p>						
Type	ListExtension						
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	valueName , value , ReferencedList , DataType , URI , Description						
Children	DataType, Description, ReferencedList, URI, value, valueName						
Instance	<pre><SubCategoryBedTypeListExtension xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <valueName>{1,1}</valueName> <value>{1,1}</value> <ReferencedList>{1,1}</ReferencedList> <DataType>{1,1}</DataType> <URI>{1,1}</URI> <Description>{1,1}</Description> </SubCategoryBedTypeListExtension></pre>						
Source	<pre><xs:element name="SubCategoryBedTypeListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"></pre>						

```
<xs:annotation>
  <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
</xs:annotation>
</xs:element>
```

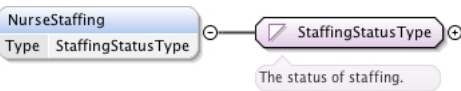
Element FutureServicesPeriodType / Capacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	Container element to define the capacity information of each specified bed type or sub category bed type. BROKEN? How do we know what we are counting Capacity for here?						
Diagram							
Type	BedCapacity						
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	CapacityStatus{0,1} , AvailableCount{0,1} , BaselineCount{0,1} , AdditionalCapacityCount24Hr{0,1} , AdditionalCapacityCount72Hr{0,1} , CapacityListExtension*						
Children	AdditionalCapacityCount24Hr, AdditionalCapacityCount72Hr, AvailableCount, BaselineCount, CapacityListExtension, CapacityStatus						
Instance	<pre><Capacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <CapacityStatus>{0,1}</CapacityStatus> <AvailableCount>{0,1}</AvailableCount> <BaselineCount>{0,1}</BaselineCount> <AdditionalCapacityCount24Hr>{0,1}</AdditionalCapacityCount24Hr> <AdditionalCapacityCount72Hr>{0,1}</AdditionalCapacityCount72Hr> <CapacityListExtension>{0,unbounded}</CapacityListExtension> </Capacity></pre>						
Source	<pre><xs:element name="Capacity" type="BedCapacity" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Container element to define the capacity information of each specified bed type or sub category bed type. BROKEN? How do we know what we are counting Capacity for here?</ xs:documentation> </xs:annotation> </xs:element></pre>						

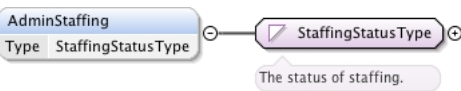
Element FutureServicesPeriodType / SurgeonStaffing

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Type	StaffingStatusType	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded
Facets	enumeration	Adequate Meets the current needs.
	enumeration	Insufficient Current needs not being met.
Source	<code><xs:element name="SurgeonStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded"/></code>	


Element FutureServicesPeriodType / NurseStaffing

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Type	StaffingStatusType	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded
Facets	enumeration	Adequate Meets the current needs.
	enumeration	Insufficient Current needs not being met.
Source	<code><xs:element name="NurseStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded"/></code>	

Element FutureServicesPeriodType / AdminStaffing

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Type	StaffingStatusType	
Properties	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded
Facets	enumeration	Adequate Meets the current needs.
	enumeration	Insufficient Current needs not being met.
Source	<code><xs:element name="AdminStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded"/></code>	

Element FutureServicesPeriodType / TODO_TimeRange

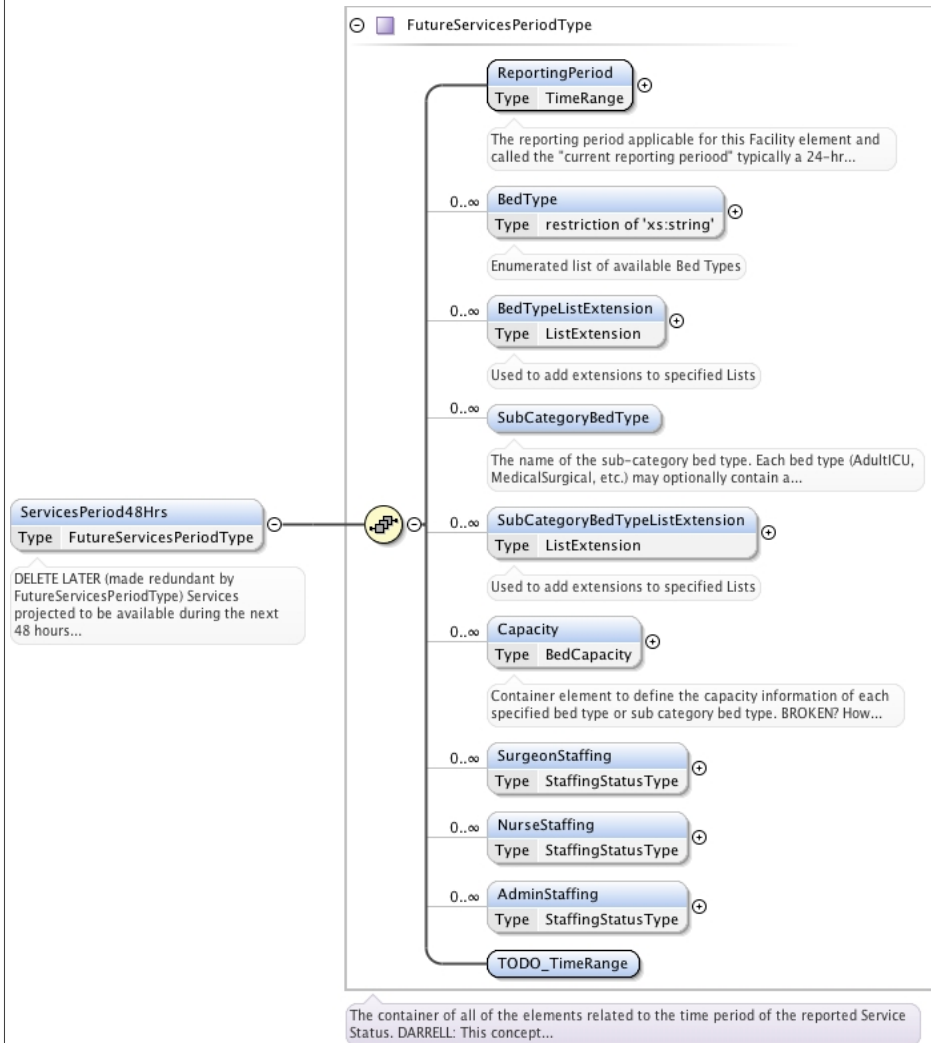
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Diagram		
Source	<code><xs:element name="TODO_TimeRange"/></code>	

Element FacilityType / Services / ServicesPeriod48Hrs

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0	
Annotations	DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next 48 hours	

QUESTION: Does anyone find this ambiguous? If I have filed 24hr report does the 48hr mean in the 24-48hr period only?

Diagram



Type: FutureServicesPeriodType

Properties:
content: complex
minOccurs: 0
maxOccurs: 1

Model: ReportingPeriod, BedType*, BedTypeListExtension*, SubCategoryBedType*, SubCategoryBedTypeListExtension*, Capacity*, SurgeonStaffing*, NurseStaffing*, AdminStaffing*, TODO_TimeRange

Children: AdminStaffing, BedType, BedTypeListExtension, Capacity, NurseStaffing, ReportingPeriod, SubCategoryBedType, SubCategoryBedTypeListExtension, SurgeonStaffing, TODO_TimeRange

Instance:

```
<ServicesPeriod48Hrs xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0">
  <ReportingPeriod>{1,1}</ReportingPeriod>
  <BedType>{0,unbounded}</BedType>
  <BedTypeListExtension>{0,unbounded}</BedTypeListExtension>
  <SubCategoryBedType>{0,unbounded}</SubCategoryBedType>
  <SubCategoryBedTypeListExtension>{0,unbounded}</SubCategoryBedTypeListExtension>
  <Capacity>{0,unbounded}</Capacity>
  <SurgeonStaffing>{0,unbounded}</SurgeonStaffing>
  <NurseStaffing>{0,unbounded}</NurseStaffing>
  <AdminStaffing>{0,unbounded}</AdminStaffing>
  <TODO_TimeRange>{1,1}</TODO_TimeRange>
</ServicesPeriod48Hrs>
```

Source:

```
<xs:element name="ServicesPeriod48Hrs" type="FutureServicesPeriodType" maxOccurs="1" minOccurs="0">
  <xs:annotation>
    <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next 48 hours QUESTION: Does anyone find this ambiguous? If I have filed 24hr report does the 48hr mean in the 24-48hr period only?</xs:documentation>
  </xs:annotation>
</xs:element>
```

Element FacilityType / Services / ServicesPeriod72Hrs

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	<p>DELETE LATER (made redundant by FutureServicesPeriodType)</p> <p>Services projected to be available during the next 72 hours</p> <p>BROKEN - the Capacity Element under here has 24/48/72 hour information.</p>						
Diagram	<p>The diagram illustrates the structure of the FutureServicesPeriodType. It is a container for several elements, each with a specific type and cardinality (0..∞). The elements and their descriptions are:</p> <ul style="list-style-type: none"> ReportingPeriod (Type: TimeRange): The reporting period applicable for this Facility element and called the "current reporting period" typically a 24-hr... BedType (Type: restriction of 'xs:string'): Enumerated list of available Bed Types BedTypeListExtension (Type: ListExtension): Used to add extensions to specified Lists SubCategoryBedType: The name of the sub-category bed type. Each bed type (AdultICU, MedicalSurgical, etc.) may optionally contain a... SubCategoryBedTypeListExtension (Type: ListExtension): Used to add extensions to specified Lists Capacity (Type: BedCapacity): Container element to define the capacity information of each specified bed type or sub category bed type. BROKEN? How... SurgeonStaffing (Type: StaffingStatusType) NurseStaffing (Type: StaffingStatusType) AdminStaffing (Type: StaffingStatusType) TODO_TimeRange: The container of all of the elements related to the time period of the reported Service Status. DARRELL: This concept... <p>The ServicesPeriod72Hrs element is defined as a FutureServicesPeriodType and is annotated with "DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next 72 hours..."</p>						
Type	FutureServicesPeriodType						
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	ReportingPeriod , BedType* , BedTypeListExtension* , SubCategoryBedType* , SubCategoryBedTypeListExtension* , Capacity* , SurgeonStaffing* , NurseStaffing* , AdminStaffing* , TODO_TimeRange						
Children	AdminStaffing, BedType, BedTypeListExtension, Capacity, NurseStaffing, ReportingPeriod, SubCategoryBedType, SubCategoryBedTypeListExtension, SurgeonStaffing, TODO_TimeRange						
Instance	<pre><ServicesPeriod72Hrs xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ReportingPeriod>{1,1}</ReportingPeriod> <BedType>{0,unbounded}</BedType> <BedTypeListExtension>{0,unbounded}</BedTypeListExtension> <SubCategoryBedType>{0,unbounded}</SubCategoryBedType> <SubCategoryBedTypeListExtension>{0,unbounded}</SubCategoryBedTypeListExtension> <Capacity>{0,unbounded}</Capacity> <SurgeonStaffing>{0,unbounded}</SurgeonStaffing> <NurseStaffing>{0,unbounded}</NurseStaffing> <AdminStaffing>{0,unbounded}</AdminStaffing> <TODO_TimeRange>{1,1}</TODO_TimeRange> </ServicesPeriod72Hrs></pre>						

Source	<pre><xs:element name="ServicesPeriod72Hrs" type="FutureServicesPeriodType" maxOccurs="1" minOccurs="0"> <xs:annotation> <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next 72 hours BROKEN - the Capacity Element under here has 24/48/72 hour information.</xs:documentation> </xs:annotation> </xs:element></pre>
--------	--

Element FacilityType / Services / ServicesPeriodn

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next nn hours						
Diagram							
Type	FutureServicesPeriodType						
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	ReportingPeriod , BedType* , BedTypeListExtension* , SubCategoryBedType* , SubCategoryBedTypeListExtension* , Capacity* , SurgeonStaffing* , NurseStaffing* , AdminStaffing* , TODO_TimeRange						
Children	AdminStaffing, BedType, BedTypeListExtension, Capacity, NurseStaffing, ReportingPeriod, SubCategoryBedType, SubCategoryBedTypeListExtension, SurgeonStaffing, TODO_TimeRange						
Instance	<pre><ServicesPeriodn xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <ReportingPeriod>{1,1}</ReportingPeriod> <BedType>{0,unbounded}</BedType> <BedTypeListExtension>{0,unbounded}</BedTypeListExtension> <SubCategoryBedType>{0,unbounded}</SubCategoryBedType></pre>						

	<pre><SubCategoryBedTypeListExtension>{0,unbounded}</SubCategoryBedTypeListExtension> <Capacity>{0,unbounded}</Capacity> <SurgeonStaffing>{0,unbounded}</SurgeonStaffing> <NurseStaffing>{0,unbounded}</NurseStaffing> <AdminStaffing>{0,unbounded}</AdminStaffing> <TODO_TimeRange>{1,1}</TODO_TimeRange> </ServicesPeriodn></pre>
Source	<pre><xs:element name="ServicesPeriodn" type="FutureServicesPeriodType" maxOccurs="1" minOccurs="0"> <xs:annotation> <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services projected to be available during the next nn hours</xs:documentation> </xs:annotation> </xs:element></pre>

Element FacilityType / Capacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	TO DO: Build out a Capacity concept???
Diagram	
Properties	content: complex
Model	DeconCapacity{0,1} , MorgueCapacity{0,1} , WhatELSE
Children	DeconCapacity, MorgueCapacity, WhatELSE
Instance	<pre><Capacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <DeconCapacity>{0,1}</DeconCapacity> <MorgueCapacity>{0,1}</MorgueCapacity> <WhatELSE>{1,1}</WhatELSE> </Capacity></pre>
Source	<pre><xs:element name="Capacity"> <xs:annotation> <xs:documentation>TO DO: Build out a Capacity concept??? </pre>

```

        </xs:annotation>
        </xs:element>
        </xs:sequence>
        </xs:complexType>
        </xs:element>
        <xs:element minOccurs="0" name="MorgueCapacity">
          <xs:annotation>
            <xs:documentation>DARRELL - carried over from HAVE v1.0 The status of the morgue
            capacity.</xs:documentation>
          </xs:annotation>
          <xs:complexType>
            <xs:sequence>
              <xs:element minOccurs="0" name="MorgueCapacityStatus">
                <xs:annotation>
                  <xs:documentation>The status of the morgue capacity.</xs:documentation>
                </xs:annotation>
                <xs:simpleType>
                  <xs:restriction base="xs:string">
                    <xs:enumeration value="Open"/>
                    <xs:enumeration value="Full"/>
                    <xs:enumeration value="Exceeded"/>
                  </xs:restriction>
                </xs:simpleType>
              </xs:element>
              <xs:element minOccurs="0" name="MorgueCapacityUnits" type="xs:integer">
                <xs:annotation>
                  <xs:documentation>The number of vacant/available units to which victims can be
            immediately transported.</xs:documentation>
                </xs:annotation>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element name="WhatELSE">
          <xs:annotation>
            <xs:documentation>QUESTION: Are there other values that need to be tracked here?</
            xs:documentation>
          </xs:annotation>
        </xs:element>
        </xs:sequence>
        </xs:complexType>
      </xs:element>

```

Element FacilityType / Capacity / DeconCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	DARRELL - missing from HAVE 1.0 - The status of Decon Capacity				
Diagram					
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	DeconCapacityStatus{0,1} , AmbulatoryPatientsDeconCapacity{0,1} , NonAmbulatoryPatientsDeconCapacity{0,1}				
Children	AmbulatoryPatientsDeconCapacity, DeconCapacityStatus, NonAmbulatoryPatientsDeconCapacity				
Instance	<pre> <DeconCapacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <DeconCapacityStatus>{0,1}</DeconCapacityStatus> <AmbulatoryPatientsDeconCapacity>{0,1}</AmbulatoryPatientsDeconCapacity> <NonAmbulatoryPatientsDeconCapacity>{0,1}</NonAmbulatoryPatientsDeconCapacity> </DeconCapacity> </pre>				
Source	<pre> <xs:element minOccurs="0" name="DeconCapacity"> <xs:annotation> <xs:documentation>DARRELL - missing from HAVE 1.0 - The status of Decon Capacity</ xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> </pre>				

	<pre> <xs:element minOccurs="0" name="DeconCapacityStatus"> <xs:annotation> <xs:documentation>The capacity for chemical/biological/radiological patient decontamination.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Inactive"/> <xs:enumeration value="Open"/> <xs:enumeration value="Full"/> <xs:enumeration value="Exceeded"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element minOccurs="0" name="AmbulatoryPatientsDeconCapacity"> <xs:annotation> <xs:documentation>The number of ambulatory patients which can be decontaminated over time (typically an hour).</xs:documentation> </xs:annotation> </xs:element> <xs:element minOccurs="0" name="NonAmbulatoryPatientsDeconCapacity"> <xs:annotation> <xs:documentation>The number of non-ambulatory patients which can be decontaminated over time (typically an hour).</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>
--	--

Element FacilityType / Capacity / DeconCapacity / DeconCapacityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0								
Annotations	The capacity for chemical/biological/radiological patient decontamination.								
Diagram	<p>The diagram shows a box labeled 'DeconCapacityStatus' with the text 'Type restriction of 'xs:string''. A line connects this box to another box labeled 'restricts: xs:string'. Below the 'DeconCapacityStatus' box is a callout bubble containing the text: 'The capacity for chemical/biological/radiological patient decontamination.'</p>								
Type	restriction of xs:string								
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>enumeration</td> <td>Inactive</td> </tr> <tr> <td>enumeration</td> <td>Open</td> </tr> <tr> <td>enumeration</td> <td>Full</td> </tr> <tr> <td>enumeration</td> <td>Exceeded</td> </tr> </table>	enumeration	Inactive	enumeration	Open	enumeration	Full	enumeration	Exceeded
enumeration	Inactive								
enumeration	Open								
enumeration	Full								
enumeration	Exceeded								
Source	<pre> <xs:element minOccurs="0" name="DeconCapacityStatus"> <xs:annotation> <xs:documentation>The capacity for chemical/biological/radiological patient decontamination.</ xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Inactive"/> <xs:enumeration value="Open"/> <xs:enumeration value="Full"/> <xs:enumeration value="Exceeded"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>								

Element FacilityType / Capacity / DeconCapacity / AmbulatoryPatientsDeconCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The number of ambulatory patients which can be decontaminated over time (typically an hour).
Diagram	<p>The diagram shows a box labeled 'AmbulatoryPatientsDeconCapacity'. Below it is a callout bubble containing the text: 'The number of ambulatory patients which can be decontaminated over time (typically an hour).'</p>

Properties	minOccurs: 0
Source	<pre><xs:element minOccurs="0" name="AmbulatoryPatientsDeconCapacity"> <xs:annotation> <xs:documentation>The number of ambulatory patients which can be decontaminated over time (typically an hour).</xs:documentation> </xs:annotation> </xs:element></pre>

Element FacilityType / Capacity / DeconCapacity / NonAmbulatoryPatientsDeconCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The number of non-ambulatory patients which can be decontaminated over time (typically an hour).
Diagram	
Properties	minOccurs: 0
Source	<pre><xs:element minOccurs="0" name="NonAmbulatoryPatientsDeconCapacity"> <xs:annotation> <xs:documentation>The number of non-ambulatory patients which can be decontaminated over time (typically an hour).</xs:documentation> </xs:annotation> </xs:element></pre>

Element FacilityType / Capacity / MorgueCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	DARRELL - carried over from HAVE v1.0 The status of the morgue capacity.
Diagram	
Properties	content: complex minOccurs: 0
Model	MorgueCapacityStatus{0,1} , MorgueCapacityUnits{0,1}
Children	MorgueCapacityStatus, MorgueCapacityUnits
Instance	<pre><MorgueCapacity xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <MorgueCapacityStatus>{0,1}</MorgueCapacityStatus> <MorgueCapacityUnits>{0,1}</MorgueCapacityUnits> </MorgueCapacity></pre>
Source	<pre><xs:element minOccurs="0" name="MorgueCapacity"> <xs:annotation> <xs:documentation>DARRELL - carried over from HAVE v1.0 The status of the morgue capacity.</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element minOccurs="0" name="MorgueCapacityStatus"> <xs:annotation> <xs:documentation>The status of the morgue capacity.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Open"/> <xs:enumeration value="Full"/> <xs:enumeration value="Exceeded"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element minOccurs="0" name="MorgueCapacityUnits" type="xs:integer"> <xs:annotation></pre>

	<pre> <xs:documentation>The number of vacant/available units to which victims can be immediately transported.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </pre>
--	---

Element FacilityType / Capacity / MorgueCapacity / MorgueCapacityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	The status of the morgue capacity.						
Diagram	<p>The status of the morgue capacity.</p>						
Type	restriction of xs:string						
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>enumeration</td> <td>Open</td> </tr> <tr> <td>enumeration</td> <td>Full</td> </tr> <tr> <td>enumeration</td> <td>Exceeded</td> </tr> </table>	enumeration	Open	enumeration	Full	enumeration	Exceeded
enumeration	Open						
enumeration	Full						
enumeration	Exceeded						
Source	<pre> <xs:element minOccurs="0" name="MorgueCapacityStatus"> <xs:annotation> <xs:documentation>The status of the morgue capacity.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Open" /> <xs:enumeration value="Full" /> <xs:enumeration value="Exceeded" /> </xs:restriction> </xs:simpleType> </xs:element> </pre>						

Element FacilityType / Capacity / MorgueCapacity / MorgueCapacityUnits

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	The number of vacant/available units to which victims can be immediately transported.				
Diagram	<p>The number of vacant/available units to which victims can be immediately transported.</p>				
Type	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				
Source	<pre> <xs:element minOccurs="0" name="MorgueCapacityUnits" type="xs:integer"> <xs:annotation> <xs:documentation>The number of vacant/available units to which victims can be immediately transported.</xs:documentation> </xs:annotation> </xs:element> </pre>				

Element FacilityType / Capacity / WhatELSE

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	QUESTION: Are there other values that need to be tracked here?
Diagram	
Source	<pre> <xs:element name="WhatELSE"> <xs:annotation> </pre>

```
<xs:documentation>QUESTION: Are there other values that need to be tracked here?</
xs:documentation>
</xs:annotation>
</xs:element>
```

Element FacilityType / Resources

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	<p>The status of resources for the organization.</p> <p>DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Resources set?</p> <p>DARRELL - I think this should be a child element of Facility. If an Org needs a rolled up view of the overall Resources state they can aggregate for all of their facilities.</p>						
Diagram							
Type	ResourceStatusType						
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	OnHandInventory , Staffing{0,1} , FacilityOperations{0,1} , ClinicalOperations{0,1} , ResourcesInformationText* , CommentText*						
Children	ClinicalOperations, CommentText, FacilityOperations, OnHandInventory, ResourcesInformationText, Staffing						
Instance	<pre><Resources xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <OnHandInventory>{1,1}</OnHandInventory> <Staffing>{0,1}</Staffing> <FacilityOperations>{0,1}</FacilityOperations> <ClinicalOperations>{0,1}</ClinicalOperations> <ResourcesInformationText>{0,unbounded}</ResourcesInformationText> <CommentText>{0,unbounded}</CommentText> </Resources></pre>						
Source	<pre><xs:element name="Resources" maxOccurs="1" minOccurs="0" type="ResourceStatusType"> <xs:annotation> <xs:documentation>The status of resources for the organization. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Resources set?</ xs:documentation> <xs:documentation>DARRELL - I think this should be a child element of Facility. If an Org needs a rolled up view of the overall Resources state they can aggregate for all of their facilities.</ xs:documentation> </xs:annotation> </xs:element></pre>						

Element ResourceStatusType / OnHandInventory

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
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Annotations	Put definiton here
Diagram	<p>The diagram illustrates the structure of the OnHandInventory element. It is a container element (circle with a plus sign) that contains two child elements: InventoryDetail and OrderStatus. Both child elements are shown with a cardinality of 1..∞. Each child element has its own 'Put definiton here' annotation box below it.</p>
Properties	content: complex
Model	InventoryDetail+, OrderStatus+
Children	InventoryDetail, OrderStatus
Instance	<pre><OnHandInventory xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:2.0"> <InventoryDetail>{1,unbounded}</InventoryDetail> <OrderStatus>{1,unbounded}</OrderStatus> </OnHandInventory></pre>
Source	<pre><xs:element name="OnHandInventory"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" name="InventoryDetail"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element> <xs:element maxOccurs="unbounded" name="OrderStatus"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>

Element ResourceStatusType / OnHandInventory / InventoryDetail

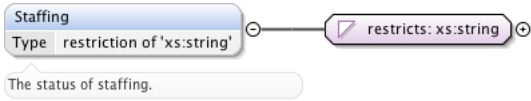
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Put definiton here
Diagram	<p>The diagram shows the InventoryDetail element as a simple rounded rectangle with its name inside. Below it is a 'Put definiton here' annotation box.</p>
Properties	maxOccurs: unbounded
Source	<pre><xs:element maxOccurs="unbounded" name="InventoryDetail"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element></pre>

Element ResourceStatusType / OnHandInventory / OrderStatus

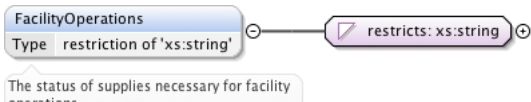
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	Put definiton here
Diagram	<p>The diagram shows the OrderStatus element as a simple rounded rectangle with its name inside. Below it is a 'Put definiton here' annotation box.</p>
Properties	maxOccurs: unbounded
Source	<pre><xs:element maxOccurs="unbounded" name="OrderStatus"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element></pre>

Element ResourceStatusType / Staffing

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The status of staffing.


Diagram							
Type	restriction of xs:string						
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>enumeration</td> <td>Adequate</td> <td>Meets the current needs.</td> </tr> <tr> <td>enumeration</td> <td>Insufficient</td> <td>Current needs not being met.</td> </tr> </table>	enumeration	Adequate	Meets the current needs.	enumeration	Insufficient	Current needs not being met.
enumeration	Adequate	Meets the current needs.					
enumeration	Insufficient	Current needs not being met.					
Source	<pre><xs:element minOccurs="0" name="Staffing"> <xs:annotation> <xs:documentation>The status of staffing.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Adequate"> <xs:annotation> <xs:documentation>Meets the current needs.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Insufficient"> <xs:annotation> <xs:documentation>Current needs not being met.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>						

Element ResourceStatusType / FacilityOperations

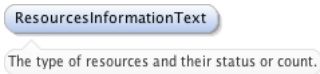
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	The status of supplies necessary for facility operations.						
Diagram							
Type	restriction of xs:string						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0		
content:	simple						
minOccurs:	0						
Facets	<table border="1"> <tr> <td>enumeration</td> <td>Adequate</td> <td>Meets the current needs.</td> </tr> <tr> <td>enumeration</td> <td>Insufficient</td> <td>Current needs not being met.</td> </tr> </table>	enumeration	Adequate	Meets the current needs.	enumeration	Insufficient	Current needs not being met.
enumeration	Adequate	Meets the current needs.					
enumeration	Insufficient	Current needs not being met.					
Source	<pre><xs:element minOccurs="0" name="FacilityOperations"> <xs:annotation> <xs:documentation>The status of supplies necessary for facility operations.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Adequate"> <xs:annotation> <xs:documentation>Meets the current needs.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Insufficient"> <xs:annotation> <xs:documentation>Current needs not being met.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>						

Element ResourceStatusType / ClinicalOperations

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The status of supplies necessary for clinical operations.

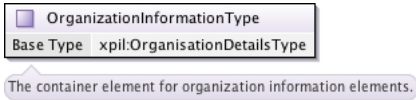
Diagram							
Type	restriction of xs:string						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0		
content:	simple						
minOccurs:	0						
Facets	<table border="1"> <tr> <td>enumeration</td> <td>Adequate</td> <td>Meets the current needs.</td> </tr> <tr> <td>enumeration</td> <td>Insufficient</td> <td>Current needs not being met.</td> </tr> </table>	enumeration	Adequate	Meets the current needs.	enumeration	Insufficient	Current needs not being met.
enumeration	Adequate	Meets the current needs.					
enumeration	Insufficient	Current needs not being met.					
Source	<pre><xs:element minOccurs="0" name="ClinicalOperations"> <xs:annotation> <xs:documentation>The status of supplies necessary for clinical operations.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Adequate"> <xs:annotation> <xs:documentation>Meets the current needs.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Insufficient"> <xs:annotation> <xs:documentation>Current needs not being met.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element></pre>						

Element ResourceStatusType / ResourcesInformationText

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	The type of resources and their status or count.				
Diagram					
Properties	<table border="1"> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	minOccurs:	0	maxOccurs:	unbounded
minOccurs:	0				
maxOccurs:	unbounded				
Source	<pre><xs:element maxOccurs="unbounded" minOccurs="0" name="ResourcesInformationText"> <xs:annotation> <xs:documentation>The type of resources and their status or count.</xs:documentation> </xs:annotation> </xs:element></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	
Type	extension of OrganisationDetailsType
Type hierarchy	<ul style="list-style-type: none"> • OrganisationDetailsType • OrganizationInformationType
Used by	Elements FacilityNetwork/OrganizationInformation, FacilityType/FacilityInformation/FacilityDetails
Source	<pre><xs:complexType name="OrganizationInformationType"> <xs:annotation> <xs:documentation>The container element for organization information elements.</xs:documentation> </xs:annotation></pre>

```
<xs:complexContent>
  <xs:extension base="xpil:OrganisationDetailsType" />
</xs:complexContent>
</xs:complexType>
```

Complex Type TimeRange

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	REPLACE with TimePeriodType (CT) Period of time - either for the complete report or for current and forecast values (e.g. the "now" and the 48/72-hr outlooks)
Diagram	<p>REPLACE with TimePeriodType (CT) Period of time - either for the complete report or for current and forecast values...</p>
Used by	Elements FacilityNetwork/ReportingPeriod, FacilityType/ReportingPeriod, FutureServicesPeriodType/ReportingPeriod, FutureServicesType/ReportingPeriod
Model	StartDateTime , EndDateTime
Children	EndDateTime, StartDateTime
Source	<pre><xs:complexType name="TimeRange"> <xs:annotation> <xs:documentation>REPLACE with TimePeriodType (CT) Period of time - either for the complete report or for current and forecast values (e.g. the "now" and the 48/72-hr outlooks)</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="StartDateTime" type="xs:dateTime"/> <xs:element name="EndDateTime" type="xs:dateTime"/> </xs:sequence> </xs:complexType></pre>

Complex Type FacilityType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	<p>The container element for reporting all information on a Health Facility. Multiple Instances of the Facility...</p> <p>The reporting period applicable for this Facility element and called the "current reporting period" typically a 24-hr...</p> <p>DARRELL - Activity24hr was missing from HAVE 1.0. The container element for reporting activities in the last 24 hours.</p> <p>Container element of all the elements of service coverage. This includes both the necessary staff and facilities....</p> <p>TO DO: Build out a Capacity concept???</p> <p>The status of resources for the organization. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a...</p> <p>0..∞</p> <p>One or more comments that indicate what is driving the status that is indicated.</p>

Used by	Element FacilityNetwork/Facility
Model	FacilityInformation , ReportingPeriod , ActivityInPeriod{0,1} , Services , Capacity , Resources{0,1} , CommentText*
Children	ActivityInPeriod, Capacity, CommentText, FacilityInformation, ReportingPeriod, Resources, Services
Source	<pre> <xs:complexType name="FacilityType"> <xs:sequence> <xs:element name="FacilityInformation" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting all information on a Health Facility. Multiple Instances of the Facility Information element MAY occur within the HospitalStatus container element. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Facility Information block?</xs:documentation> </xs:annotation> </xs:element> <xs:complexType> <xs:sequence> <xs:element name="FacilityID" type="xs:ID"> <xs:annotation> <xs:documentation>ID for easy reference and for establishment of Facility hierarchy if/when used with ParentID. TODO: Decide on xs:string or xs:ID - either way this value really needs to be unique in the XML file so relationships can be established.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ParentFacility" maxOccurs="1" type="xs:IDREF" minOccurs="0"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> <xs:documentation>Unique Identifier of the Parent Facility - xs:string or xs:IDREF to line up with FacilityID element type</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityName" type="xs:string"> <xs:annotation> <xs:documentation>Name of facility.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityGeoLocation" type="GeoLocationType" minOccurs="0"> <xs:annotation> <xs:documentation>The location of the facility. NOTE: Changed from OrganizationGeoLocation.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="FacilityDetails" type="OrganizationInformationType"/> <xs:element name="FacilityType" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting type of Health Facility. TO DO: Create URI/Value pair here for lists. HAVE1.0 default would be Hospital.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Hospital"/> <xs:enumeration value=""/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="FacilityProfile" maxOccurs="1"> <xs:annotation> <xs:documentation>The container element for reporting the profile of a Health Facility.</xs:documentation> </xs:annotation> </xs:element> <xs:element minOccurs="0" name="ClinicalStatus"> <xs:annotation> <xs:documentation>The clinical status of the facility.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>Hospital clinical resources are operating within normal conditions.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Full"> <xs:annotation> <xs:documentation>Hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or community surge response is required.</ xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </xs:sequence> </xs:complexType> </pre>

```

        <xs:element name="HealthFacilityStatus" type="HealthFacilityStatus" maxOccurs="1">
          <xs:annotation>
            <xs:documentation>The container element for reporting status of a Health Facility.</
xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="EmergencyDepartmentStatus" type="EmergencyDepartmentStatus"
minOccurs="0">
          <xs:annotation>
            <xs:documentation>Report on the emergency department status for the organization.</
xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="SecurityStatus" type="SecurityStatus" maxOccurs="1" minOccurs="0">
          <xs:annotation>
            <xs:documentation>The container element for reporting status of a Health Facility.</
xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="EmergencyOperations" minOccurs="0">
          <xs:annotation>
            <xs:documentation>DARRELL - EARLY CONCEPT - this element attempts to capture two
items that weren't carried over from HAVE v1.0 - HospitalEOCPlan and HospitalEOCStatus. I put
these as FacilityInformation sub-elements as that feels like the best place for them - they are
facility-dependent and don't really fall under another item though some may argue they fall under
Security, which isn't correct IMHO. I haven't rationalized the sub-element types or created a
EmergencyOperationsType or anything yet - just getting the concept out.</xs:documentation>
          </xs:annotation>
          <xs:complexType>
            <xs:sequence>
              <xs:element name="EOCPlan"/>
              <xs:element name="EOCStatus"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
        <xs:element minOccurs="0" name="Helipad" type="xs:string">
          <xs:annotation>
            <xs:documentation>Indication that facility has helipad facilities. QUESTION: Do
we just need a boolean here, or should be expand this and add a bit more information about the
helipad?</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="ReportingPeriod" type="TimeRange">
    <xs:annotation>
      <xs:documentation>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 blank (QUESTION: Should that be allowed) an EFFECTIVE time is required?</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element minOccurs="0" name="ActivityInPeriod">
    <xs:annotation>
      <xs:documentation>DARRELL - Activity24hr was missing from HAVE 1.0. The container element
for reporting activities in the last 24 hours.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="Admissions"/>
        <xs:element minOccurs="0" name="Discharges"/>
        <xs:element minOccurs="0" name="Deaths"/>
        <xs:element ref="CommentText"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="Services" maxOccurs="1">
    <xs:annotation>
      <xs:documentation>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. DARRELL: Changed cardinality from 1:n to 1:1 - Rationale: Why would a single Facility
have more than one Services set?</xs:documentation>
      <xs:documentation>DARRELL - to me this belongs under Facility (child element). The
Organization can aggregate for all of their facilities if they need an organization level view.</
xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="CurrentServicesOffered" type="ServicesType" maxOccurs="1">
          <xs:annotation>

```

```

        <xs:documentation>Range of services offered by the facility for the reporting period
        indicated CurrentServicesOffered/ReportingPeriod NOTE: Changed cardinality from 1:n to 1:1 - why
        would we need many of these?</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element maxOccurs="unbounded" minOccurs="0" name="FutureServicesPeriod"
type="FutureServicesType">
    <xs:annotation>
        <xs:documentation>IDEA: Use a TimePeriodType to indicate the time range of the
        estimated/predicted ... things? TODO: Rationalize what things need to be predicted/estimated -
        starting with concepts in the ServicesPeriod* (24...n) TODO: Q: Does this time period information
        really belong here or does it belong at the Facility level - we aren't really just talking about
        Services.</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="ServicesPeriod24Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
        <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
        projected to be available during the next 24 hours TODO: Discuss with HAVE SC - what is the intent
        here? It seems to add complexity and it may be worth it but I (darrell) don't quite get it. I can
        see a group wanting to report on future plans/situation/outcomes but I'm not able to wrap my head
        around this quite yet.</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="ServicesPeriod48Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
        <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
        projected to be available during the next 48 hours QUESTION: Does anyone find this ambiguous? If I
        have filed 24hr report does the 48hr mean in the 24-48hr period only?</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="ServicesPeriod72Hrs" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
        <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
        projected to be available during the next 72 hours BROKEN - the Capacity Element under here has
        24/48/72 hour information.</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="ServicesPeriodn" type="FutureServicesPeriodType" maxOccurs="1"
minOccurs="0">
    <xs:annotation>
        <xs:documentation>DELETE LATER (made redundant by FutureServicesPeriodType) Services
        projected to be available during the next nn hours</xs:documentation>
    </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Capacity">
    <xs:annotation>
        <xs:documentation>TO DO: Build out a Capacity concept??</xs:documentation>
    </xs:annotation>
<xs:complexType>
    <xs:sequence>
        <xs:element minOccurs="0" name="DeconCapacity">
            <xs:annotation>
                <xs:documentation>DARRELL - missing from HAVE 1.0 - The status of Decon Capacity</
xs:documentation>
            </xs:annotation>
<xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0" name="DeconCapacityStatus">
                    <xs:annotation>
                        <xs:documentation>The capacity for chemical/biological/radiological patient
                        decontamination.</xs:documentation>
                    </xs:annotation>
<xs:simpleType>
                    <xs:restriction base="xs:string">
                        <xs:enumeration value="Inactive"/>
                        <xs:enumeration value="Open"/>
                        <xs:enumeration value="Full"/>
                        <xs:enumeration value="Exceeded"/>
                    </xs:restriction>
                </xs:simpleType>
            </xs:element>
        <xs:element minOccurs="0" name="AmbulatoryPatientsDeconCapacity">
            <xs:annotation>
                <xs:documentation>The number of ambulatory patients which can be decontaminated
                over time (typically an hour).</xs:documentation>
            </xs:annotation>

```

```

        </xs:element>
        <xs:element minOccurs="0" name="NonAmbulatoryPatientsDeconCapacity">
          <xs:annotation>
            <xs:documentation>The number of non-ambulatory patients which can be
decontaminated over time (typically an hour).</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element minOccurs="0" name="MorgueCapacity">
    <xs:annotation>
      <xs:documentation>DARRELL - carried over from HAVE v1.0 The status of the morgue
capacity.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" name="MorgueCapacityStatus">
          <xs:annotation>
            <xs:documentation>The status of the morgue capacity.</xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="Open"/>
              <xs:enumeration value="Full"/>
              <xs:enumeration value="Exceeded"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element minOccurs="0" name="MorgueCapacityUnits" type="xs:integer">
          <xs:annotation>
            <xs:documentation>The number of vacant/available units to which victims can be
immediately transported.</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="WhatELSE">
    <xs:annotation>
      <xs:documentation>QUESTION: Are there other values that need to be tracked here?</
xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Resources" maxOccurs="1" minOccurs="0" type="ResourceStatusType">
  <xs:annotation>
    <xs:documentation>The status of resources for the organization. DARRELL: Changed cardinality
from 1:n to 1:1 - Rationale: Why would a single Facility have more than one Resources set?</
xs:documentation>
    <xs:documentation>DARRELL - I think this should be a child element of Facility. If an
Org needs a rolled up view of the overall Resources state they can aggregate for all of their
facilities.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element ref="CommentText" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

```

Complex Type GeoLocationType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The container element for specifying the geo-coded address.
Diagram	<pre> classDiagram class GeoLocationType { GeoLocation GeoPoliticalLocation } class GeoLocation { Type edxl-gsf:EDXLGeoLocationType } class GeoPoliticalLocation { Type ct:EDXLGeoPoliticalLocationType } GeoLocationType "1" -- "*" GeoLocation GeoLocationType "1" -- "*" GeoPoliticalLocation </pre> <p>The container element for specifying the geo-coded address.</p>
Used by	Element FacilityType/FacilityInformation/FacilityGeoLocation
Model	GeoLocation GeoPoliticalLocation
Children	GeoLocation, GeoPoliticalLocation
Source	<xs:complexType name="GeoLocationType"> <xs:annotation>

```

<xs:documentation>The container element for specifying the geo-coded address.</xs:documentation>
</xs:annotation>
<xs:choice>
  <xs:element name="GeoLocation" type="edxl-gsf:EDXLGeoLocationType" />
  <xs:element name="GeoPoliticalLocation" type="ct:EDXLGeoPoliticalLocationType" />
</xs:choice>
</xs:complexType>

```

Complex Type HealthFacilityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Used by	Element FacilityType/FacilityInformation/HealthFacilityStatus
Model	FacilityStatus , FacilityStatusListExtension* , CommentText{0,1}
Children	CommentText, FacilityStatus, FacilityStatusListExtension
Source	<pre> <xs:complexType name="HealthFacilityStatus"> <xs:sequence> <xs:element name="FacilityStatus"> <xs:simpleType> <xs:annotation> <xs:documentation>The status of the facility.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>No conditions exist that adversely affect the general operations of the facility.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Compromised"> <xs:annotation> <xs:documentation>General operations of the facility have been affected due to damage, operating on emergency backup systems, or facility contamination.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Evacuating"> <xs:annotation> <xs:documentation>Indicates that a hospital is in the process of a partial or full evacuation.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Closed"> <xs:annotation> <xs:documentation>Indicates that a hospital is no longer capable of providing services and only emergency services/restoration personnel remain in the facility.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="FacilityStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="CommentText" minOccurs="0" /> </xs:sequence> </xs:complexType> </pre>

Complex Type ListExtension

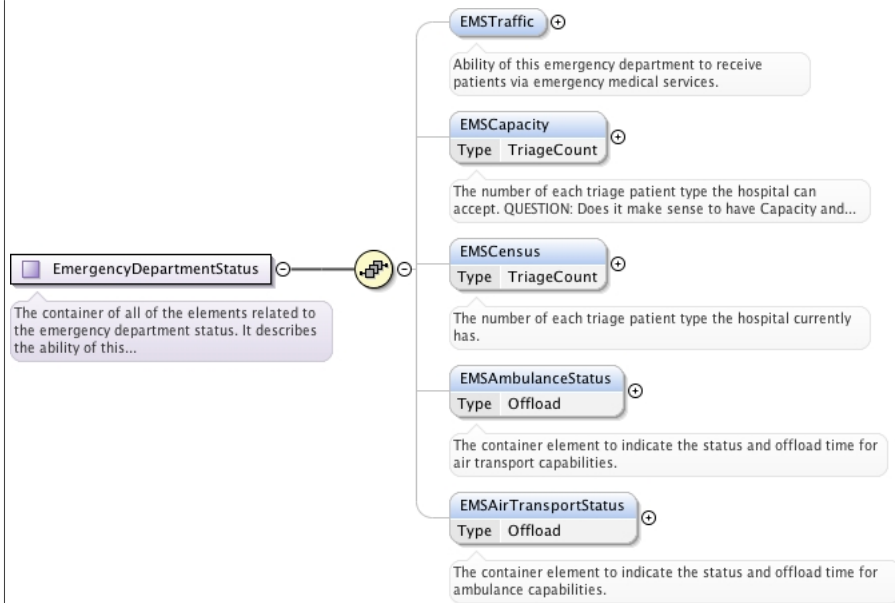
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
-----------	--

Annotations	QUESTION: Should there be a human-readable "label" that would be used for rendering here? e.g. a taxonomy value may be "Trauma.BurnUnit" with a language-specific en_US label of "Burn Unit"
Diagram	<pre> classDiagram class ListExtension { valueName : xs:string value : DefaultServiceValues ReferencedList : restriction of 'xs:string' DataType : xs:string URI : xs:string Description : xs:string } </pre> <p>QUESTION: Should there be a human-readable "label" that would be used for rendering here? e.g. a taxonomy value may be...</p> <p>QUESTION: What is the intent of this listing of the "lookup" types that are in the schema? Is it to provide a list of...</p>
Used by	Elements BedCapacity/CapacityListExtension, EmergencyDepartmentStatus/EMSTraffic/EMSTrafficStatusListExtension, FutureServicesPeriodType/BedTypeListExtension, FutureServicesPeriodType/SubCategoryBedTypeListExtension, HealthFacilityStatus/FacilityStatusListExtension, SecurityStatus/SecurityStatusListExtension
Model	valueName , value , ReferencedList , DataType , URI , Description
Children	DataType, Description, ReferencedList, URI, value, valueName
Source	<pre> <xs:complexType name="ListExtension"> <xs:annotation> <xs:documentation>QUESTION: Should there be a human-readable "label" that would be used for rendering here? e.g. a taxonomy value may be "Trauma.BurnUnit" with a language-specific en_US label of "Burn Unit"</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="valueName"/> <xs:element ref="value"/> <xs:element ref="ReferencedList"> <xs:annotation> <xs:documentation>QUESTION: What is the intent of this listing of the "lookup" types that are in the schema? Is it to provide a list of the various taxonomies that one will have to provide?</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="DataType"/> <xs:element ref="URI"/> <xs:element ref="Description"/> </xs:sequence> </xs:complexType> </pre>

Complex Type EmergencyDepartmentStatus

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



Used by

Element FacilityType/FacilityInformation/EmergencyDepartmentStatus

Model

EMSTraffic{0,1} , EMSCapacity{0,1} , EMSCensus{0,1} , EMSAmbulanceStatus{0,1} , EMSAirTransportStatus{0,1}

Children

EMSAirTransportStatus, EMSAmbulanceStatus, EMSCapacity, EMSCensus, EMSTraffic

Source

```
<xs:complexType name="EmergencyDepartmentStatus">
  <xs:annotation>
    <xs:documentation>The container of all of the elements related to the emergency department
status. It describes the ability of this emergency department to treat patients.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="EMSTraffic" minOccurs="0">
      <xs:annotation>
        <xs:documentation>Ability of this emergency department to receive patients via emergency
medical services.</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="EMSTrafficStatus" minOccurs="0">
            <xs:annotation>
              <xs:documentation>Identifies the status of EMS traffic operations</xs:documentation>
            </xs:annotation>
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:enumeration value="Normal">
                  <xs:annotation>
                    <xs:documentation>Accepting all EMS traffic.</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Advisory">
                  <xs:annotation>
                    <xs:documentation>Experiencing specific resource limitations which may affect
transport of some EMS traffic.</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="Closed">
                  <xs:annotation>
                    <xs:documentation>Requesting re-route of EMS traffic to other facilities.</
xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
                <xs:enumeration value="NotApplicable">
                  <xs:annotation>
                    <xs:documentation>Not Applicable. This hospital does not have an emergency
department.</xs:documentation>
                  </xs:annotation>
                </xs:enumeration>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="EMSTrafficStatusListExtension" type="ListExtension" minOccurs="0"
maxOccurs="unbounded">
            <xs:annotation>
              <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

        </xs:annotation>
    </xs:element>
    <xs:element name="EMSTrafficReason" type="xs:string" minOccurs="0">
        <xs:annotation>
            <xs:documentation>It is used to report the contributing factor to an EMSTraffic
Status.</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element ref="CommentText" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<!-- -->
<!-- Added elements from HAVE 1.0 schema -->
<!-- -->
<xs:element name="EMSCapacity" type="TriageCount" minOccurs="0">
    <xs:annotation>
        <xs:documentation>The number of each triage patient type the hospital can accept. QUESTION:
Does it make sense to have Capacity and Census? Does an Emergency Department plan ahead for
capacity of RYG and Black (dead) patients?</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="EMSCensus" type="TriageCount" minOccurs="0">
    <xs:annotation>
        <xs:documentation>The number of each triage patient type the hospital currently has.</
xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="EMSAmbulanceStatus" type="Offload" minOccurs="0">
    <xs:annotation>
        <xs:documentation>The container element to indicate the status and offload time for air
transport capabilities.</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="EMSAirTransportStatus" type="Offload" minOccurs="0">
    <xs:annotation>
        <xs:documentation>The container element to indicate the status and offload time for
ambulance capabilities.</xs:documentation>
    </xs:annotation>
</xs:element>
<!-- -->
<!-- Added elements from HAVE 1.0 schema -->
<!-- -->
</xs:sequence>
</xs:complexType>

```

Complex Type TriageCount

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	The number of each triage patient type the overall hospital currently has.
Diagram	<pre> classDiagram class TriageCount { TriageCodeListURN TriageCode* } class TriageCodeListURN { Type xs:anyURI Default urn:oasis:names:tc:emergency:have:1.0:triagecolorcode } class TriageCode { } TriageCount "1" -- "0..∞" TriageCode TriageCountListURN "1" -- "1" TriageCount </pre>
Used by	Elements EmergencyDepartmentStatus/EMSCapacity, EmergencyDepartmentStatus/EMSCensus
Model	TriageCodeListURN{0,1}, TriageCode*
Children	TriageCode, TriageCodeListURN
Source	<pre> <xs:complexType name="TriageCount"> <xs:annotation> <xs:documentation>The number of each triage patient type the overall hospital currently has.</ xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="TriageCodeListURN" type="xs:anyURI" default="urn:oasis:names:tc:emergency:have:1.0:triagecolorcode" minOccurs="0"> <xs:annotation> <xs:documentation>The name of a certified list maintained by the Community of Interest (COI) for the value referenced. If no TriageCodeListURN is specified, the default list should be used. Default Value: urn: oasis:names:tc:emergency:have:1.0:triagecolorcode.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </pre>

```

<xs:sequence>
  <xs:element name="TriageCode" minOccurs="0" maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>The container element to specify the triage values and their
quantity TODO: Create a Triage Code Type that can handle this. Fix the cardinality here too.</
xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="TriageCodeValue" minOccurs="0" maxOccurs="1">
          <xs:annotation>
            <xs:documentation>The list of values must be from the list identified in
TriageCodeListURN. 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 TriageCodeValue is specified, a TriageCountQuantity element must be specified.
DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation>
          </xs:annotation>
          <xs:simpleType>
            <xs:restriction base="xs:string">
              <xs:enumeration value="Red"/>
              <xs:enumeration value="Yellow"/>
              <xs:enumeration value="Green"/>
              <xs:enumeration value="Black"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:element>
        <xs:element name="TriageCountQuantity" type="xs:integer" minOccurs="0" maxOccurs="1">
          <xs:annotation>
            <xs:documentation>The integer value associated with the TrageCodeValue. It refers
to the preceeding TriageCodeValue element. If a TriageCodeValue is specified, a TriageCountQuantity
element must be specified. DARRELL - changed cardinality to 0 or 1 (was 0 or n)</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type Offload

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	<p>The diagram shows a class named 'Offload' with a description: 'Indicator of offload times of ambulance capabilities. The time it takes to transfer care of a patient to hospital...'. It contains two elements: 'EMSOffloadStatus' (Type: restriction of 'xs:string') and 'EMSOffloadMinutes' (Type: xs:integer). The 'EMSOffloadMinutes' element has a description: 'Average offload time in minutes.'</p>
Used by	Elements EmergencyDepartmentStatus/EMSAirTransportStatus, EmergencyDepartmentStatus/ EMSAmbulanceStatus
Model	EMSOffloadStatus{0,1} , EMSOffloadMinutes{0,1}
Children	EMSOffloadMinutes, EMSOffloadStatus
Source	<pre> <xs:complexType name="Offload"> <xs:annotation> <xs:documentation>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.</ xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="EMSOffloadStatus" minOccurs="0"> <xs:annotation> <xs:documentation>Indicator of offload times of ambulance capabilities.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>The time required to offload a patient is typical.</ xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </pre>

```

        </xs:enumeration>
        <xs:enumeration value="Delayed">
          <xs:annotation>
            <xs:documentation>The time required to offload a patient is longer than typical.</
xs:documentation>
          </xs:annotation>
        </xs:enumeration>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="EMSOffloadMinutes" type="xs:integer" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Average offload time in minutes.</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type SecurityStatus

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	<pre> classDiagram class SecurityStatus { Security SecurityStatusListExtension 0..∞ CommentText } class Security { Type restriction of 'xs:string' } class SecurityStatusListExtension { Type ListExtension } class CommentText { Type xs:string } SecurityStatus -- Security SecurityStatus -- SecurityStatusListExtension SecurityStatus -- CommentText </pre> <p>Used to add extensions to specified Lists</p> <p>One or more comments that indicate what is driving the status that is indicated.</p>
Used by	Element FacilityType/FacilityInformation/SecurityStatus
Model	Security , SecurityStatusListExtension* , CommentText{0,1}
Children	CommentText, Security, SecurityStatusListExtension
Source	<pre> <xs:complexType name="SecurityStatus"> <xs:sequence> <xs:element name="Security"> <xs:simpleType> <xs:annotation> <xs:documentation>The status of security procedures in the hospital.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Normal"> <xs:annotation> <xs:documentation>The hospital is operating under routine security procedures.</ xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Elevated"> <xs:annotation> <xs:documentation>The hospital has activated increased security procedures (awareness, surveillance) due to a potential threat, or specific security related event i.e. increase in local threat level, VIP, bomb threat.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="RestrictedAccess"> <xs:annotation> <xs:documentation>Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled entrances.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Lockdown"> <xs:annotation> <xs:documentation>Based on security needs, the hospital has activated procedures to control entry to the facility to authorized persons only.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Quarantine"> <xs:annotation> <xs:documentation>Based on a public health emergency, the entry and exit of the facility is controlled by public health officials.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="SecurityStatusListExtension" type="ListExtension" minOccurs="0" maxOccurs="∞"> <xs:annotation> <xs:documentation>Used to add extensions to specified Lists</xs:documentation> </xs:annotation> </xs:element> <xs:element name="CommentText" type="xs:string" minOccurs="0" maxOccurs="1"> <xs:annotation> <xs:documentation>One or more comments that indicate what is driving the status that is indicated.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

```

</xs:simpleType>
</xs:element>
<xs:element name="SecurityStatusListExtension" type="ListExtension" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element ref="CommentText" minOccurs="0" />
</xs:sequence>
</xs:complexType>

```

Complex Type ServicesType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>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.</p> <p>DARRELL - need ability to extend this.</p>
Diagram	<p>The diagram shows a class ServicesType (represented by a rectangle) containing a sequence of elements (represented by a circle). The sequence contains two elements: ServiceList (U..∞) and CommentText (0..∞). CommentText has a type of xs:string. Annotations provide context: 'Container element of all the elements of service coverage. This includes both the necessary staff and facilities....' for ServicesType; 'DARRELL: I am working in this area to see how we can have an extensible list here that can support validation. OLDER...' for ServiceList; and 'One or more comments that indicate what is driving the status that is indicated.' for CommentText.</p>
Used by	Element FacilityType/Services/CurrentServicesOffered
Model	ServiceList* , CommentText*
Children	CommentText, ServiceList
Source	<pre> <xs:complexType name="ServicesType"> <xs:annotation> <xs:documentation>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.</ xs:documentation> <xs:documentation>DARRELL - need ability to extend this.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="ServiceList" maxOccurs="unbounded" minOccurs="0"> <xs:annotation> <xs:documentation>DARRELL: I am working in this area to see how we can have an extensible list here that can support validation. OLDER NOTE: I don't know how to do this but we need to be able to extend the list of Services that are tracked, ideally with a community-managed taxonomy of some kind. Values such as Critical Care, Neonatal ICU, ICU, Acute Stroke, and more are missing from the generalized list and many jurisdictions will have their own list of key services. Counter to this concept, I agree that we need a starting point and the HAVE 1.0 list of elements is good - but the structure doesn't allow for extension nor replacement of the main lists. IDEA: Create an enumeration that fulfils HAVE 1.0 as a starting point and build it into the standard but allow a group to replace the list?</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="ServiceTaxonomyComment" minOccurs="0"> <xs:annotation> <xs:documentation>A comment describing the taxonomy that is in use here.</ xs:documentation> </xs:annotation> </xs:element> <xs:element maxOccurs="unbounded" minOccurs="0" name="ServiceListItem" type="ServiceType"> </xs:element> </xs:sequence> <xs:attribute name="TaxonomyName" default="HAVE1.0"> <xs:annotation> <xs:documentation>Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.</ xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="TaxonomyURI" default="urn:oasis:edxl:have:1.0"> <xs:annotation> <xs:documentation>A URI pointing at the Taxonomy. The URI should resolve to a human- readable listing of the taxonomy values used, including definitions, intent of the taxonomy, etc.</ xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </xs:sequence> </pre>

```

        </xs:attribute>
    </xs:complexType>
</xs:element>
<xs:element ref="CommentText" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
    
```

Complex Type ServiceType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0				
Annotations	Extensible Service Type - allows taxonomy (URI + value) type use and tracks Availability, Status, and basic Capacity information.				
Diagram					
Used by	<table border="1"> <tr> <td>Element</td> <td>ServicesType/ServiceList/ServiceListItem</td> </tr> <tr> <td>Complex Type</td> <td>FutureServicesType</td> </tr> </table>	Element	ServicesType/ServiceList/ServiceListItem	Complex Type	FutureServicesType
Element	ServicesType/ServiceList/ServiceListItem				
Complex Type	FutureServicesType				
Model	ServiceValueType , ServiceName , Available , ServiceStatus{0,1} , ServiceCapacity{0,1}				
Children	Available, ServiceCapacity, ServiceName, ServiceStatus, ServiceValueType				
Source	<pre> <xs:complexType name="ServiceType"> <xs:annotation> <xs:documentation>Extensible Service Type - allows taxonomy (URI + value) type use and tracks Availability, Status, and basic Capacity information.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="ServiceValueType" type="ServiceValueType"> <xs:annotation> <xs:documentation>Extensible list of services based on a URI (ValueListURI) and Value.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="ServiceName" type="xs:string"> <xs:annotation> <xs:documentation>TO DO: Get Multilingual name going here. QUESTION: Should this be included in the Service Taxonomy?</xs:documentation> </xs:annotation> </xs:element> <xs:element name="Available" type="xs:boolean"/> <xs:element name="ServiceStatus" type="StatusType" minOccurs="0"/> <xs:element name="ServiceCapacity" type="BedCapacity" minOccurs="0"> <xs:annotation> <xs:documentation>QUESTION: How detailed do we need to be here? This is beginning to look and smell like an internal planning capability for a hospital. Perhaps some of the detail belongs in an HL7 type of system?</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>				

Complex Type ServiceValueKeyType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	TO DO: Get concept from RIM / SITREP going here where there is a Default set (point to HAVE?). This adds unnecessary complexity though - keeping it simple may be best.

Diagram	
Type	extension of ct:ValueType
Type hierarchy	<ul style="list-style-type: none"> ct:ValueType ServiceValueType
Used by	Element ServiceType/ServiceValueType
Model	ct:ValueListURI , ct:Value
Children	ct:Value, ct:ValueListURI
Source	<pre><xs:complexType name="ServiceValueType"> <xs:annotation> <xs:documentation>TO DO: Get concept from RIM / SITREP going here where there is a Default set (point to HAVE?). This adds unnecessary complexity though - keeping it simple may be best.</xs:documentation> </xs:annotation> <xs:complexContent> <xs:extension base="ct:ValueType"/> </xs:complexContent> </xs:complexType></pre>

Complex Type StatusType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>EARLY ATTEMPT to create a simple (it isn't simple enough) way to codify status. To me (Darrell) there needs to be a colour-code, a string value and perhaps a numeric tier? The numeric is tough and perhaps a string set of values could work.</p> <p>DELTA 26JUN2012 - changed from Sequence to All to remove order preference. Changed cardinality for CommentText, Stability, Colour, and StatusLevel to 1:0 (was 1:1)</p>
Diagram	
Used by	Element ServiceType/ServiceStatus
Model	ALL(Status Colour{0,1} StatusLevel{0,1} CommentText{0,1} Stability{0,1})
Children	Colour, CommentText, Stability, Status, StatusLevel
Source	<pre><xs:complexType name="StatusType"> <xs:annotation> <xs:documentation>EARLY ATTEMPT to create a simple (it isn't simple enough) way to codify status. To me (Darrell) there needs to be a colour-code, a string value and perhaps a numeric tier? The numeric is tough and perhaps a string set of values could work. DELTA 26JUN2012 - changed from Sequence to All to remove order preference. Changed cardinality for CommentText, Stability, Colour, and StatusLevel to 1:0 (was 1:1)</xs:documentation> </xs:annotation> </xs:complexType></pre>


```

<xs:all>
  <xs:element minOccurs="1" name="Status" type="xs:string">
    <xs:annotation>
      <xs:documentation>Human-readable value that indicates the status.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="Colour" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Colour (text-based) of the status. By default triage colours of green, yellow, red, black are supported. QUESTION: does this need to be more formalized with an enumeration? Example in wild (LHIN) has green, yellow, orange, and red as well.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element minOccurs="0" name="StatusLevel" type="xs:int"/>
  <xs:element ref="CommentText" minOccurs="0"/>
  <xs:element minOccurs="0" name="Stability" type="StabilityType">
    <xs:annotation>
      <xs:documentation>Indication that the Status is stable, improving, or deteriorating</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:all>
</xs:complexType>

```

Complex Type BedCapacity

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>Top level complex schema type defining bed capacity counts given a specific type of bed.</p> <p>TO DO: The elements here need reviewing for cardinality and hierarchy. Needs some kind of "capacity name/type" to indicate what we are indicating the capacity for.</p> <p>QUESTION: is this about bed capacity? If it is let's rename the element to BedCapacity. NOTE: Already done in this rev (0.6)</p>
Diagram	
Used by	Elements FutureServicesPeriodType/Capacity, ServiceType/ServiceCapacity
Model	CapacityStatus{0,1}, AvailableCount{0,1}, BaselineCount{0,1}, AdditionalCapacityCount24Hr{0,1}, AdditionalCapacityCount72Hr{0,1}, CapacityListExtension*
Children	AdditionalCapacityCount24Hr, AdditionalCapacityCount72Hr, AvailableCount, BaselineCount, CapacityListExtension, CapacityStatus
Source	<pre> <xs:complexType name="BedCapacity"> <xs:annotation> <xs:documentation>Top level complex schema type defining bed capacity counts given a specific type of bed. TO DO: The elements here need reviewing for cardinality and hierarchy. Needs some kind of "capacity name/type" to indicate what we are indicating the capacity for. QUESTION: is this </pre>


```

about bed capacity? If it is let's rename the element to BedCapacity. NOTE: Already done in this
rev (0.6)</xs:documentation>
</xs:annotation>
<xs:sequence>
  <xs:element name="CapacityStatus" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Indicator of status of bed type or sub-category bed type. QUESTION: Is
"Vacant" really useful as opposed to "Available" - though they are similar, they aren't quite the
same.</xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Vacant/Available"/>
        <xs:enumeration value="NotAvailable"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:element>
  <xs:element name="AvailableCount" type="xs:integer" minOccurs="0">
    <xs:annotation>
      <xs:documentation>The number of vacant/available beds to which patients can be immediately
transported. 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.</
xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="BaselineCount" type="xs:integer" minOccurs="0">
    <xs:annotation>
      <xs:documentation>The maximum (baseline) number of beds in this category.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="AdditionalCapacityCount24Hr" type="xs:integer" minOccurs="0">
    <xs:annotation>
      <xs:documentation>QUESTION: Is this redundant? - This is a time period based value. The
concept of ReportingPeriod is different though as it really is intended to portray the predicted
and planned status in a different time period. The concept of "surge capacity" is more of a "if
we had to." Estimate how many beds above the current number could be made vacant/available within
24 hours. This includes institutional surge beds as well as beds made available by discharging/
transferring patients.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="AdditionalCapacityCount72Hr" type="xs:integer" minOccurs="0">
    <xs:annotation>
      <xs:documentation>Estimate how many beds above the current number could be made vacant/
available within 72 hours. This includes institutional surge beds as well as beds made available by
discharging/transferring patients.</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CapacityListExtension" type="ListExtension" minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation>Used to add extensions to specified Lists QUESTION: examples??</
xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>

```

Complex Type FutureServicesType

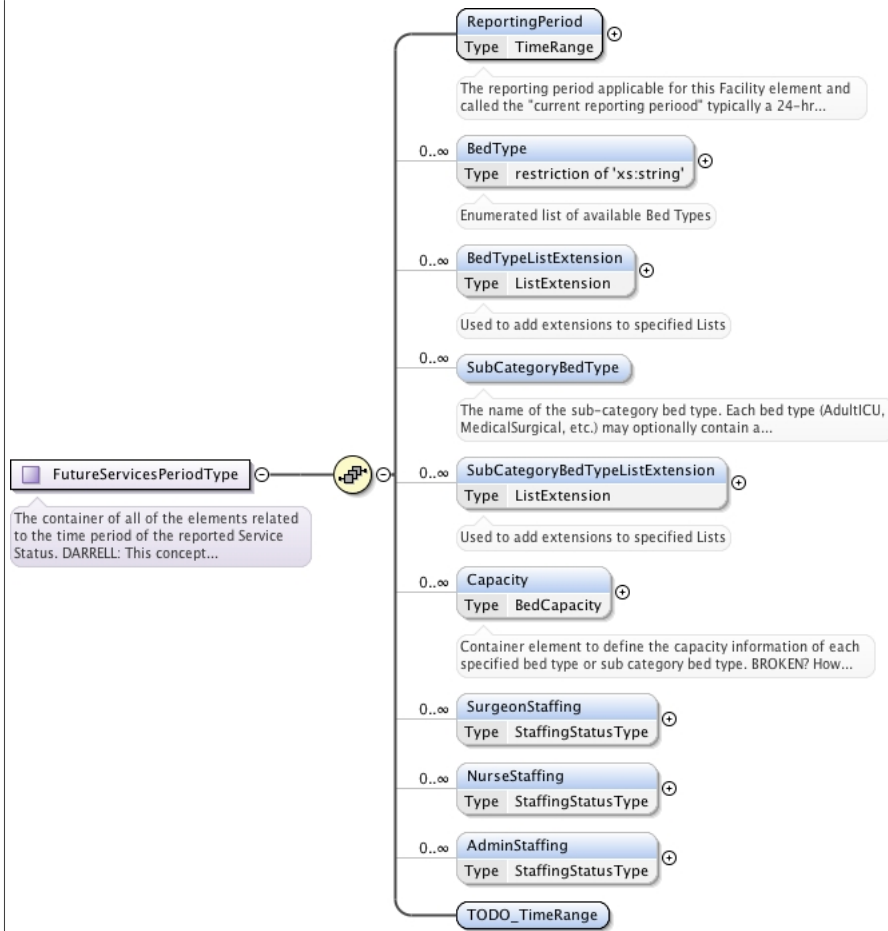
Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
-----------	--

Diagram	
Type	extension of ServiceType
Type hierarchy	<ul style="list-style-type: none"> • ServiceType • FutureServicesType
Used by	Element FacilityType/Services/FutureServicesPeriod
Model	ServiceValueType , ServiceName , Available , ServiceStatus{0,1} , ServiceCapacity{0,1} , ReportingPeriod , CommentText*
Children	Available, CommentText, ReportingPeriod, ServiceCapacity, ServiceName, ServiceStatus, ServiceValueType
Source	<pre> <xs:complexType name="FutureServicesType"> <xs:complexContent> <xs:extension base="ServiceType"> <xs:sequence> <xs:element name="ReportingPeriod" type="TimeRange"> <xs:annotation> <xs:documentation>The FutureServices reporting period, typically a 24-hr block of time following the current reporting period times (e.g. noon to noon)</xs:documentation> </xs:annotation> </xs:element> <xs:element maxOccurs="unbounded" minOccurs="0" ref="CommentText"/> </xs:sequence> </xs:extension> </xs:complexContent> </xs:complexType> </pre>

Complex Type FutureServicesPeriodType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>The container of all of the elements related to the time period of the reported Service Status.</p> <p>DARRELL: This concept seems confusing. If a time range were assigned I can see those things that are truly variable over time (e.g. beds can be added/removed, staffing levels vary by plan and by illness) but this feels heavy and confusing to me. See FutureServicesPeriod concept under Facility.Services for another way to look at this.</p> <p>TODO: Look back to HAVE1.0 schema - Bed capacity made more sense there.</p>

Diagram



Used by Elements FacilityType/Services/ServicesPeriod24Hrs, FacilityType/Services/ServicesPeriod48Hrs, FacilityType/Services/ServicesPeriod72Hrs, FacilityType/Services/ServicesPeriod

Model ReportingPeriod , BedType* , BedTypeListExtension* , SubCategoryBedType* , SubCategoryBedTypeListExtension* , Capacity* , SurgeonStaffing* , NurseStaffing* , AdminStaffing* , TODO_TimeRange

Children AdminStaffing, BedType, BedTypeListExtension, Capacity, NurseStaffing, ReportingPeriod, SubCategoryBedType, SubCategoryBedTypeListExtension, SurgeonStaffing, TODO_TimeRange

```
<xs:complexType name="FutureServicesPeriodType">
  <xs:annotation>
    <xs:documentation>The container of all of the elements related to the time period of the reported Service Status. DARRELL: This concept seems confusing. If a time range were assigned I can see those things that are truly variable over time (e.g. beds can be added/removed, staffing levels vary by plan and by illness) but this feels heavy and confusing to me. See FutureServicesPeriod concept under Facility.Services for another way to look at this. TODO: Look back to HAVE1.0 schema - Bed capacity made more sense there.</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="ReportingPeriod" type="TimeRange">
      <xs:annotation>
        <xs:documentation>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. Must not be blank for ServicesPeriodType since it is future looking.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="BedType" block="restriction" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Enumerated list of available Bed Types</xs:documentation>
      </xs:annotation>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="AdultICU">
            <xs:annotation>
              <xs:documentation>These can support critically ill or injured patients, including ventilator support. This category includes all major subtypes of ICU beds, including neuro, cardiac, trauma, or medical, with the exception that this category does not include burn ICU beds.</xs:documentation>
            </xs:annotation>
          </xs:enumeration>
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <xs:element name="BedTypeListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SubCategoryBedType" type="Text" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>The name of the sub-category bed type. Each bed type (AdultICU, MedicalSurgical, etc.) may optionally contain a...</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SubCategoryBedTypeListExtension" type="ListExtension" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Capacity" type="BedCapacity" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation>Container element to define the capacity information of each specified bed type or sub category bed type. BROKEN? How...</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="SurgeonStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation></xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="NurseStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation></xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="AdminStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation></xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="TODO_TimeRange" type="Text" minOccurs="0" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation></xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

<xs:enumeration value="PediatricICU"/>
<xs:enumeration value="NeonatalICU"/>
<xs:enumeration value="EmergencyDepartment"/>
<xs:enumeration value="NurseryBeds"/>
<xs:enumeration value="MedicalSurgical">
  <xs:annotation>
    <xs:documentation>These are also thought of as ward beds. These beds may or may not
include cardiac telemetry capability.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="RehabLongTermCare"/>
<xs:enumeration value="Burn">
  <xs:annotation>
    <xs:documentation>These are thought of as burn ICU beds, either approved by the
American Burn Association or self-designated. These beds are NOT to be included in other ICU bed
counts.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="Pediatrics">
  <xs:annotation>
    <xs:documentation>Capacity status for pediatrics beds. These are ward medical/surgical
beds for patients 17-years-old and younger.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="AdultPsychiatric">
  <xs:annotation>
    <xs:documentation>Capacity status for psychiatric beds. These are ward beds on
a closed/locked psychiatric unit or ward beds where a patient will be attended by a sitter.</
xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="PediatricPsychiatric"/>
<xs:enumeration value="NegativeFlowIsolation">
  <xs:annotation>
    <xs:documentation>Capacity status for negative airflow isolation beds. These provide
respiratory isolation. NOTE: This value may represent available beds included in the counts of
other types.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="OtherIsolation">
  <xs:annotation>
    <xs:documentation>Capacity status for other isolation beds. These provide isolation
where airflow is not a concern. NOTE: This value may represent available beds included in the
counts of other types.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="OperatingRooms">
  <xs:annotation>
    <xs:documentation>Capacity status for operating rooms which are equipped staffed and
could be made available for patient care in a short period of time.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="BedTypeListExtension" type="ListExtension" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SubCategoryBedType" block="extension" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>The name of the sub-category bed type. Each bed type (AdultICU,
MedicalSurgical, etc.) may optionally contain a collection of named sub-categories. Each bed type
may have many one or more named sub-type categories. - If one or more sub category bed types are
used, they must be preceded by the parent BedType element. In this case, CapacityStatus of the Bed
Type CANNOT be Not Available. Each parent BedType element and its associated sub-category bed types
must be encapsulated with a BedCapacity element. If the capacity counts of sub-category beds are
specified, they need not equal the capacity count of the parent bed type. In general, if capacities
of are specified using sub-category bed types, then only the CapacityStatus of the parent bed type
should be used, and this should reflect an Available value.</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="SubCategoryBedTypeListExtension" type="ListExtension" minOccurs="0"
maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>Used to add extensions to specified Lists</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Capacity" type="BedCapacity" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>

```

```

<xs:documentation>Container element to define the capacity information of each specified
bed type or sub category bed type. BROKEN? How do we know what we are counting Capacity for here?</
xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="SurgeonStaffing" type="StaffingStatusType" minOccurs="0"
maxOccurs="unbounded" />
<xs:element name="NurseStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded" />
<xs:element name="AdminStaffing" type="StaffingStatusType" minOccurs="0" maxOccurs="unbounded" />
<xs:element name="TODO_TimeRange" />
</xs:sequence>
</xs:complexType>

```

Complex Type ResourceStatusType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Used by	Element FacilityType/Resources
Model	OnHandInventory , Staffing{0,1} , FacilityOperations{0,1} , ClinicalOperations{0,1} , ResourcesInformationText* , CommentText*
Children	ClinicalOperations, CommentText, FacilityOperations, OnHandInventory, ResourcesInformationText, Staffing
Source	<pre> <xs:complexType name="ResourceStatusType" > <xs:sequence> <xs:element name="OnHandInventory"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element maxOccurs="unbounded" name="InventoryDetail"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element> <xs:element maxOccurs="unbounded" name="OrderStatus"> <xs:annotation> <xs:documentation>Put definiton here</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </xs:element> <xs:element minOccurs="0" name="Staffing"> <xs:annotation> <xs:documentation>The status of staffing.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="Adequate"> <xs:annotation> <xs:documentation>Meets the current needs.</xs:documentation> </xs:annotation> </xs:enumeration> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </pre>

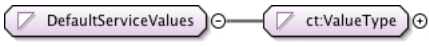
```

        </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="Insufficient">
        <xs:annotation>
            <xs:documentation>Current needs not being met.</xs:documentation>
        </xs:annotation>
    </xs:enumeration>
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element minOccurs="0" name="FacilityOperations">
    <xs:annotation>
        <xs:documentation>The status of supplies necessary for facility operations.</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="Adequate">
                <xs:annotation>
                    <xs:documentation>Meets the current needs.</xs:documentation>
                </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Insufficient">
                <xs:annotation>
                    <xs:documentation>Current needs not being met.</xs:documentation>
                </xs:annotation>
            </xs:enumeration>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element minOccurs="0" name="ClinicalOperations">
    <xs:annotation>
        <xs:documentation>The status of supplies necessary for clinical operations.</
xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:enumeration value="Adequate">
                <xs:annotation>
                    <xs:documentation>Meets the current needs.</xs:documentation>
                </xs:annotation>
            </xs:enumeration>
            <xs:enumeration value="Insufficient">
                <xs:annotation>
                    <xs:documentation>Current needs not being met.</xs:documentation>
                </xs:annotation>
            </xs:enumeration>
        </xs:restriction>
    </xs:simpleType>
</xs:element>
<xs:element maxOccurs="unbounded" minOccurs="0" name="ResourcesInformationText">
    <xs:annotation>
        <xs:documentation>The type of resources and their status or count.</xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element maxOccurs="unbounded" minOccurs="0" ref="CommentText"/>
</xs:sequence>
</xs:complexType>

```

Simple Type(s)

Simple Type DefaultServiceValues

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 • ct:ValueType • DefaultServiceValues 								
Facets	<table border="1"> <tr> <td>enumeration</td> <td>Burn</td> </tr> <tr> <td>enumeration</td> <td>Cardiology</td> </tr> <tr> <td>enumeration</td> <td>Cardiology.Invasive</td> </tr> <tr> <td>enumeration</td> <td>Cardiology.NonInvasive</td> </tr> </table>	enumeration	Burn	enumeration	Cardiology	enumeration	Cardiology.Invasive	enumeration	Cardiology.NonInvasive
enumeration	Burn								
enumeration	Cardiology								
enumeration	Cardiology.Invasive								
enumeration	Cardiology.NonInvasive								

	enumeration	Dialysis
	enumeration	OTHER.HAVE1.0.TYPES
Used by	Element	value
Source	<pre><xs:simpleType name="DefaultServiceValues"> <xs:restriction base="ct:ValueType"> <xs:enumeration value="Burn"/> <xs:enumeration value="Cardiology"/> <xs:enumeration value="Cardiology.Invasive"/> <xs:enumeration value="Cardiology.NonInvasive"/> <xs:enumeration value="Dialysis"/> <xs:enumeration value="OTHER.HAVE1.0.TYPES"/> </xs:restriction> </xs:simpleType></pre>	

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							
Type	restriction of xs:string						
Facets	<table border="1"> <tr> <td>enumeration</td> <td>stable</td> </tr> <tr> <td>enumeration</td> <td>improving</td> </tr> <tr> <td>enumeration</td> <td>deteriorating</td> </tr> </table>	enumeration	stable	enumeration	improving	enumeration	deteriorating
enumeration	stable						
enumeration	improving						
enumeration	deteriorating						
Used by	Element StatusType/Stability						
Source	<pre><xs:simpleType name="StabilityType"> <xs:annotation> <xs:documentation>Indication of stability - positive/improving, negative/deteriorating, or neutral/stable</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="stable"/> <xs:enumeration value="improving"/> <xs:enumeration value="deteriorating"/> </xs:restriction> </xs:simpleType></pre>						

Simple Type staffingStatusType

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0						
Annotations	The status of staffing.						
Diagram							
Type	restriction of xs:string						
Facets	<table border="1"> <tr> <td>enumeration</td> <td>Adequate</td> <td>Meets the current needs.</td> </tr> <tr> <td>enumeration</td> <td>Insufficient</td> <td>Current needs not being met.</td> </tr> </table>	enumeration	Adequate	Meets the current needs.	enumeration	Insufficient	Current needs not being met.
enumeration	Adequate	Meets the current needs.					
enumeration	Insufficient	Current needs not being met.					
Used by	Elements FutureServicesPeriodType/AdminStaffing, FutureServicesPeriodType/NurseStaffing, FutureServicesPeriodType/SurgeonStaffing						
Source	<pre><xs:simpleType name="StaffingStatusType"> <xs:annotation> <xs:documentation>The status of staffing.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="Adequate"> <xs:annotation> <xs:documentation>Meets the current needs.</xs:documentation> </xs:annotation> </xs:enumeration> <xs:enumeration value="Insufficient"></pre>						

```

<xs:annotation>
  <xs:documentation>Current needs not being met.</xs:documentation>
</xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>

```

Simple Type DefaultServiceURI

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Diagram	
Type	restriction of ct.ValueListURIType
Type hierarchy	<ul style="list-style-type: none"> xs:anyURI ct.ValueListURIType DefaultServiceURI
Facets	enumeration urn:oasis:names:tc:emergency:EDXL:HAVE:Defaults:HAVE1
Source	<pre> <xs:simpleType name="DefaultServiceURI"> <xs:restriction base="ct:ValueListURITYPE"> <xs:enumeration value="urn:oasis:names:tc:emergency:EDXL:HAVE:Defaults:HAVE1" /> </xs:restriction> </xs:simpleType> </pre>

Attribute(s)

Attribute ServicesType / ServiceList / @TaxonomyName

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	<p>Indicates the Name of the Taxonomy used for the Services list.</p> <p>NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.</p>
Properties	default: HAVE1.0
Used by	Element ServicesType/ServiceList
Source	<pre> <xs:attribute name="TaxonomyName" default="HAVE1.0"> <xs:annotation> <xs:documentation>Indicates the Name of the Taxonomy used for the Services list. NOTE: Could be converted to Sequence of Elements if the use of attributes is not desirable.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

Attribute ServicesType / ServiceList / @TaxonomyURI

Namespace	urn:oasis:names:tc:emergency:EDXL:HAVE:2.0
Annotations	A URI pointing at the Taxonomy. The URI should resolve to a human-readable listing of the taxonomy values used, including definitions, intent of the taxonomy, etc.
Properties	default: urn:oasis:edxl:have:1.0
Used by	Element ServicesType/ServiceList
Source	<pre> <xs:attribute name="TaxonomyURI" default="urn:oasis:edxl:have:1.0"> <xs:annotation> <xs:documentation>A URI pointing at the Taxonomy. The URI should resolve to a human-readable listing of the taxonomy values used, including definitions, intent of the taxonomy, etc.</xs:documentation> </xs:annotation> </xs:attribute> </pre>