



# Emergency Data Exchange Language (EDXL) Hospital AVailability Exchange (HAVE) Version 1.0

## OASIS Standard Incorporating Draft Errata

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### Related work:

This specification is related to:

- [EDXL-DE v1.0](#)

The EDXL Distribution Element (DE) specification describes a standard message distribution framework for data sharing among emergency information systems using the XML-based Emergency Data Exchange Language (EDXL). This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding.

### Declared XML Namespace(s):

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### Abstract:

This Hospital AVailability Exchange (HAVE) describes a standard message for data sharing among emergency information systems using the XML-based Emergency Data Exchange Language (EDXL).

This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding.

**Status:**

This document was last revised or approved by the Emergency Management Technical Committee on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document.

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# 1 INTRODUCTION

## 2 1.1 OVERVIEW

### 3 1.1.1 PURPOSE

4 EDXL-HAVE specifies an XML document format that allows the communication of the status of a hospital,  
5 its services, and its resources. These include bed capacity and availability, emergency department status,  
6 available service coverage, and the status of a hospital's facility and operations.

### 7 1.1.2 HISTORY

8 In a disaster or emergency situation, there is a need for hospitals to be able to communicate with each  
9 other, and with other members of the emergency response community. The ability to exchange data in  
10 regard to hospitals' bed availability, status, services, and capacity enables both hospitals and other  
11 emergency agencies to respond to emergencies and disaster situations with greater efficiency and speed.  
12 In particular, it will allow emergency dispatchers and managers to make sound logistics decisions - where  
13 to route victims, which hospitals have the ability to provide the needed service. Many hospitals have  
14 expressed the need for, and indeed are currently using, commercial or self-developed information  
15 technology that allows them to publish this information to other hospitals in a region, as well as EOCs, 9-  
16 1-1 centers, and EMS responders via a Web-based tool.

17 Systems that are available today do not record or present data in a standardized format, creating a  
18 serious barrier to data sharing between hospitals and emergency response groups. Without data  
19 standards, parties of various kinds are unable to view data from hospitals in a state or region that use a  
20 different system – unless a specialized interface is developed. Alternatively, such officials must get  
21 special passwords and toggle between web pages to get a full picture. Other local emergency responders  
22 are unable to get the data imported into the emergency IT tools they use (e.g. a 9-1-1 computer-aided  
23 dispatch system or an EOC consequence information management system). They too must get a pass  
24 word and go to the appropriate web page. This is very inefficient. A uniform data standard will allow  
25 different applications and systems to communicate seamlessly.

### 26 1.1.3 STRUCTURE

27 The most important XML elements specified in this standard as part of the EDXL-HAVE document format  
28 are the following:

#### 30 <HospitalStatus>

31 This is the overall top level container element for all the <Hospital> elements that may be present.

#### 32 <Hospital>

33 This is the top level container element for each reporting organization. Each <Hospital> element  
34 has the following set of sub-elements.

#### 35 <Organization>

36 The <Organization> element provides basic information about the name and location of the  
37 organization about which the status and availability is being reported.

#### 38 <EmergencyDepartmentStatus>

39 The <EmergencyDepartmentStatus> element provides information on the ability of the  
40 emergency department of the organization to treat patients.

#### 41 <HospitalBedCapacityStatus>

42 The <HospitalBedCapacityStatus> element provides information on the status and  
43 availability of the bed capacity of the organization. The bed capacity information for specific bed  
44 types can be reported.

45 <ServiceCoverageStatus>

46 The <ServiceCoverageStatus> element provides information on the availability of specialty  
47 service coverage. This includes both the necessary staff and facilities. Some of the services  
48 capabilities are broken down into subtypes. This is to allow organizations to designate subtypes,  
49 if available. Others can report just the higher level specialties.

50 <HospitalFacilityStatus>

51 The <HospitalFacilityStatus> element provides information on the status of the facility.  
52 This includes information on the EOC and the capacity of the facility.

53 <HospitalResourcesStatus>

54 The <HospitalResourcesStatus> element provides information on the status of operations  
55 and resources of the organization.

56 <LastUpdateTime>

57 The <LastUpdateTime> element provides information on the time that the information was last  
58 updated.

59  
60 This standard references element and type definitions specified in the following standards and profiles:  
61

- 62 • [OASIS CIQ] – The CIQ standard is used for defining the name, address and location information in  
63 EDXL HAVE.
- 64 • [geo-oasis] – OASIS GML Profile – This profile is used to define the geo-location elements in EDXL  
65 HAVE.

66 **1.2 TERMINOLOGY**

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

70

|        |  |
|--------|--|
| AHA    | American Hospital Association              |
| CIQ    | Customer Information Quality               |
| EDXL   | Emergency Data Exchange Language           |
| EOC    | Emergency Operations Center                |
| EOP    | Emergency Operations Plan                  |
| EMS    | Emergency Medical Services                 |
| GJXDM  | Global Justice XML Data Model              |
| GML    | Geographic Markup Language                 |
| HAvBED | Hospital Bed Availability (HAvBED) Project |
| ICU    | Intensive Care Unit                        |

|       |                                     |
|-------|-------------------------------------|
| NIEM  | National Information Exchange Model |
| OBYGN | Obstetrics and Gynecology           |

71

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73

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109

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146 [20-%20a%20GML%20Profile.doc](http://www.oasis-open.org/apps/org/workgroup/emergency/download.php/20785/Best%20Practices%20-%20a%20GML%20Profile.doc)

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## 147 2 DESIGN PRINCIPLES AND CONCEPTS

### 148 2.1 DESIGN PHILOSOPHY

149 The principles that guided the design of the HAVE include:

- 150 • Interoperability - The HAVE message should provide an interoperable mechanism to exchange  
151 healthcare organization information among different domains and among multiple systems
- 152 • Multi-Use Format – The HAVE message must be designed such that it can be used in everyday  
153 events, during mass disasters, and for incident preparedness.
- 154 • Flexibility – The design structure must be flexible such that it could be used by a broad range of  
155 applications and systems to report status and availability information

### 156 2.2 REQUIREMENTS FOR DESIGN

157 This standard was designed taking the following requirements into account:

- 158 1. Allow medical and healthcare organizations to communicate their status and availability information.
- 159 2. Be designed to allow its use by a wide variety of medical and healthcare organizations (including  
160 hospitals and nursing homes), along with other emergency response organizations (such as  
161 emergency management centers, public safety answering points, and dispatch centers).
- 162 3. Be able to be used as a payload or content element with the EDXL Distribution Element.
- 163 4. Allow the communication of status information of one or more organizations in a single exchange.
- 164 5. Allow the communication of the organization's status and availability information with regard to its  
165 facilities, operations, services, and resources.
- 166 6. Be designed to allow its use in normal operations, day-to-day emergencies and mass disasters.

167

### 168 2.3 EXAMPLE USAGE SCENARIOS

#### 169 Use of HAVE during a mass disaster

170 A major disaster has occurred in a heavily populated city. A number of casualties are reported, and the  
171 Incident Commander (IC) needs to obtain a common operational picture on the status of the hospitals in  
172 the region, including the resources they can offer. The IC sends a message to the regional hospitals for  
173 an update on their status and bed availability information.

174 Hospitals receive this request, and use their respective systems to send HAVE messages. These  
175 messages contain the status of each hospital's emergency department, bed availability information, and  
176 the hospital's operations and facilities. These are accepted into the IC's Consequence Incident  
177 Management System (CIMS) tool, and similar tools used by other emergency response agencies (e.g.  
178 Computer-Aided Dispatch systems used in public safety answering points).

#### 179 Use of HAVE during an everyday emergency

180 A car crash has occurred in a rural area resulting in two badly burned victims, according to on-scene  
181 public safety personnel. Before the EMS staff reaches the scene, EMS dispatch sends a request to  
182 nearby hospitals for a status of available burn services and burn beds.

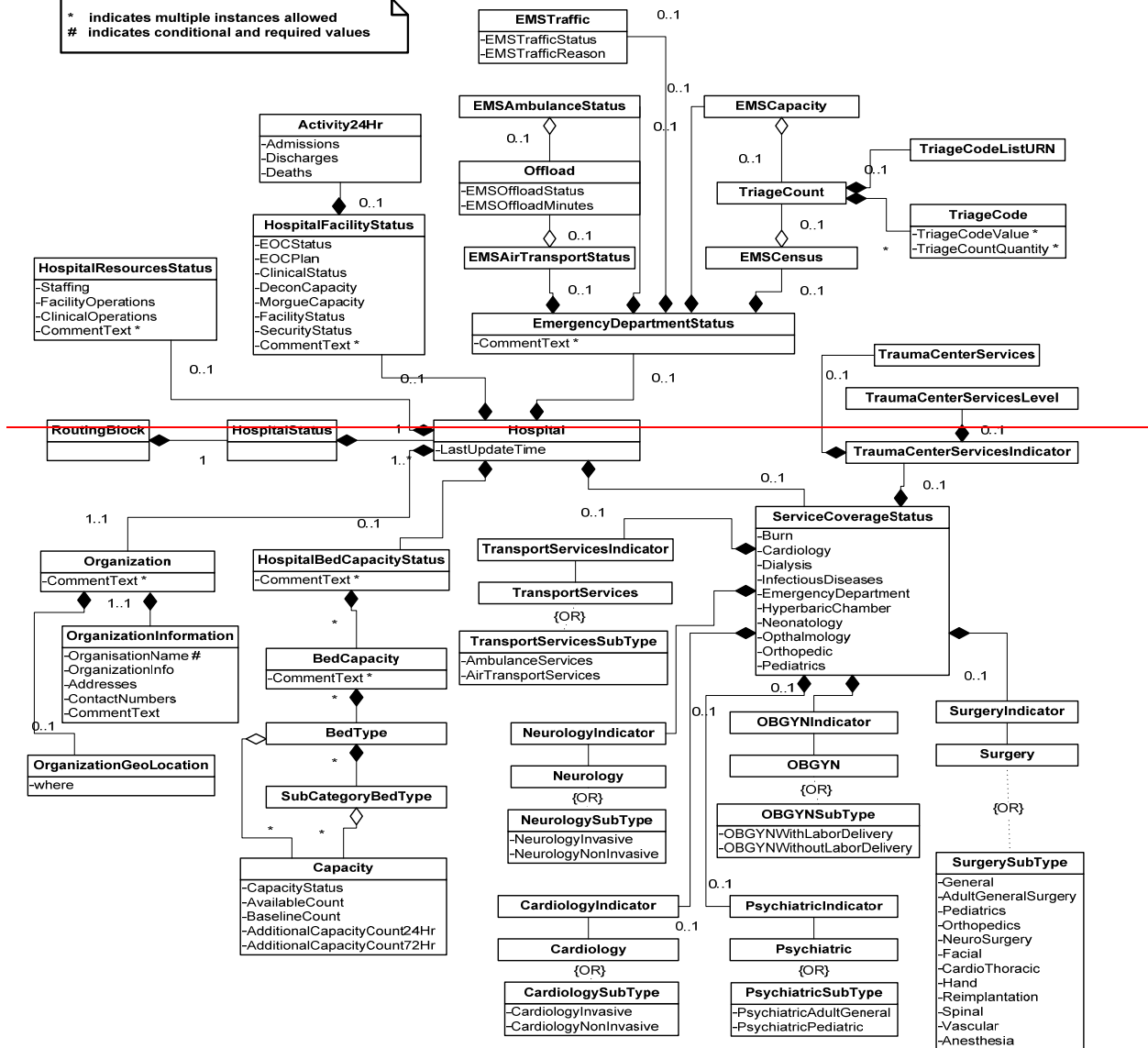
183 A few hospitals respond to the request, and use the service coverage element in the HAVE message to  
184 specify the burn coverage available at their facilities. They in turn are able to assemble their burn teams  
185 in order to ensure that there is no delay in treatment. Based on the acquired information, the victims are  
186 taken to the nearest hospital with the required services.

---

187 **3 EDXL HOSPITAL AVAILABILITY EXCHANGE (HAVE)**  
188 **ELEMENT STRUCTURE**  
189 **3.1 DOCUMENT OBJECT MODEL (NON-NORMATIVE)**

{The EDXL-HAVE has no independent routing mechanism, so it requires a routing mechanism that is consistent with the EDXL-DE distribution types. }

\* indicates multiple instances allowed  
# indicates conditional and required values



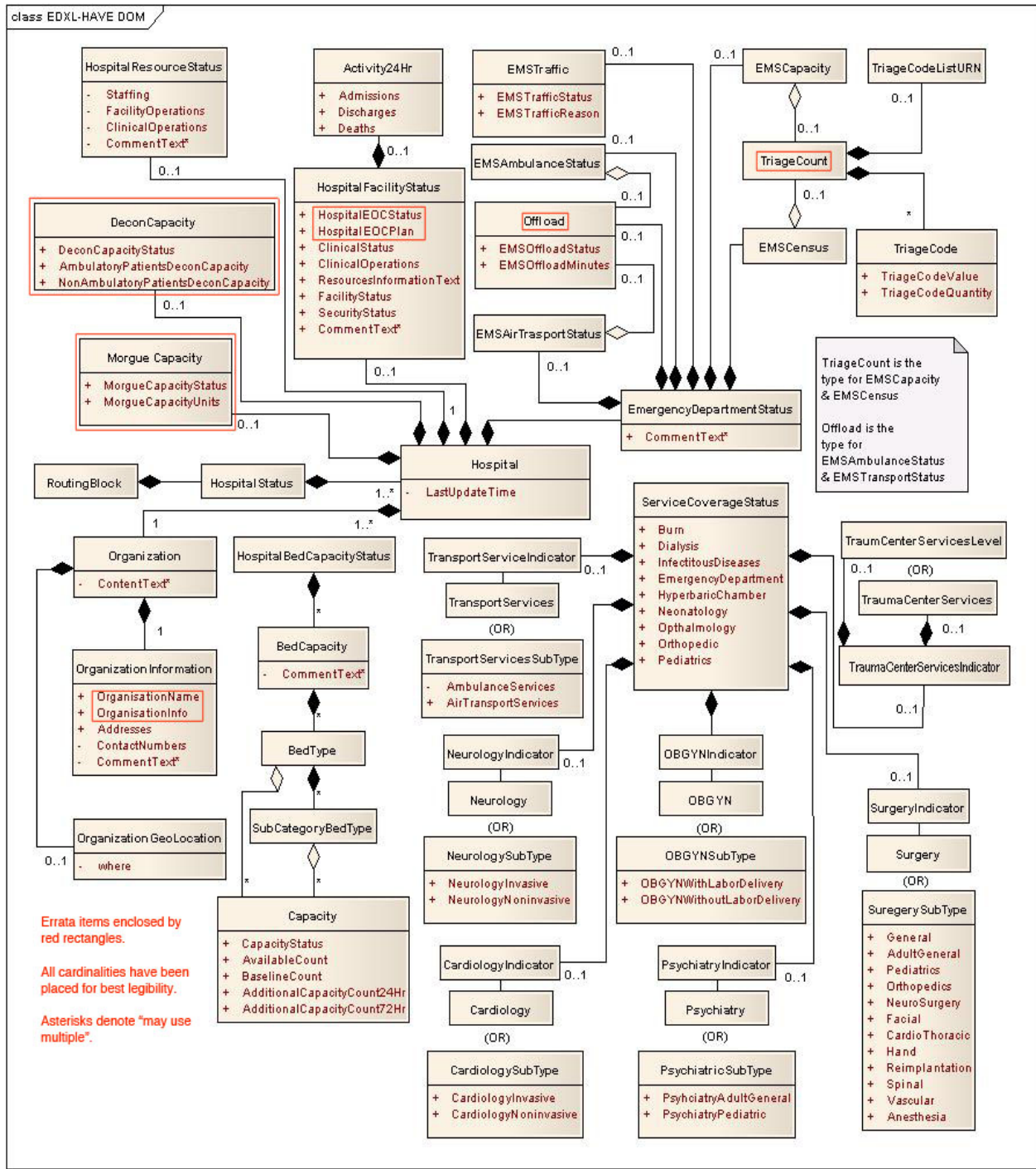


Figure 1: EDXL-HAVE DOM

### 3.2 DATA DICTIONARY

The following section provides additional clarification on interpreting the various fields identified in the data dictionary:

191  
192  
193  
194  
195  
196  
197  
198

199 The EDXL-HAVE schema is normative and is located here - [http://docs.oasis-open.org/emergency/edxl-](http://docs.oasis-open.org/emergency/edxl-have/v1.0/edxl-have.xsd)  
200 [have/v1.0/edxl-have.xsd](http://docs.oasis-open.org/emergency/edxl-have/v1.0/edxl-have.xsd)

201

202 The Data Dictionary is used to provide additional clarifications, except for the following entries which are  
203 normative:

- 204 • Element
- 205 • Usage
- 206 • Constraints

207

208 In the Data Dictionary, unless otherwise specified explicitly, the following entries are non-normative:

- 209 • Type
  - 210 • Note: In some cases, it refers to the complex types and these are normative. These
  - 211 exceptions are identified in the Data Dictionary, where applicable.
- 212 • Definition:
- 213 • Used In
- 214 • Comments
- 215 • Sub-elements

216

217 Note:

218 This standard does not specify any transport, distribution, or routing mechanism for an  
219 EDXL-HAVE document. One way of using this standard is by including one or more  
220 EDXL-HAVE documents in the payload of an EDXL-DE message.

221

## 222 3.2.1 HOSPITAL STATUS

223

|              |  |
|--------------|--|
| Element      | <have:HospitalStatus>  |
| Type         | XML Structure  |
| Usage        | <b>REQUIRED</b> , MUST be used once and only once, top level container.          |
| Definition   | The top level container element for reporting status of any number of hospitals. |
| Constraints  | 1. <HospitalStatus> MUST contain one or more <Hospital> elements.                |
| Sub-elements | <ul style="list-style-type: none"><li>• <a href="#">Hospital</a></li></ul>       |
| Used In      | Top Level Element  |

224

|              |  |
|--------------|--|
| Element      | <have:Hospital>  |
| Type         | XML Structure  |
| Usage        | <b>REQUIRED</b> , May Use Multiple; Must be used for each reporting hospital status.   |
| Definition   | The container element for reporting status of a hospital.  |
| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">Organization</a></li> <li>• <a href="#">EmergencyDepartmentStatus</a></li> <li>• <a href="#">HospitalBedCapacityStatus</a></li> <li>• <a href="#">ServiceCoverageStatus</a></li> <li>• <a href="#">HospitalFacilityStatus</a></li> <li>• <a href="#">HospitalResourcesStatus</a></li> <li>• <a href="#">LastUpdateTime</a></li> </ul> |
| Used In      | <a href="#">HospitalStatus</a>   |

225

## 226 3.2.2 ORGANIZATION

227

### 228 Note on CIQ

229 EDXL-HAVE uses the Customer Information Quality (CIQ) profile for defining the name,  
230 address and other details of the Organization.

231 This standard references certain XML elements and types, as specified in [OASIS CIQ], and  
232 provides recommendations on their use inside an EDXL-HAVE document. Those  
233 recommendations limit the choices available to an implementation of this standard in order to  
234 maximize interoperability.

235 **The EDXL HAVE data dictionary only provides a high level overview of the CIQ**  
236 **elements that are used in this standard. It is highly recommended to refer to the**  
237 **OASIS CIQ Version 3.0 Specifications for implementation details and examples.**

238 While EDXL-HAVE uses *Organization*, CIQ uses *Organisation*. In [OASIS CIQ] the spelling  
239 “organisation” is used whenever this word occurs in the name of an element specified in that  
240 standard. In contrast, the spelling “organization” is used in this standard whenever this word  
241 occurs in the name of an element specified in this standard. Obviously, when an element  
242 specified in [OASIS CIQ] is referenced within this standard, the original spelling (with an “s”) is  
243 used for its name.

244 While CIQ provides a capability to specify geo-location by LocationByCoordinates and GeoRSS,  
245 EDXL-HAVE specifies the use of the OASIS GML profile – geo-oasis.

246 Please see Appendix C for a brief note on the OASIS CIQ Standard.

247

248 **Note on Organization**

249 The term “organization” is used in this standard to refer to a hospital, a nursing care  
 250 center, a trauma center, or any other organization whose resource availability can be  
 251 usefully represented in an EDXL-HAVE document.

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| <b>Element</b> | <have:Organization>  |
| Type           | XML Structure  |
| Usage          | <b>REQUIRED</b> , MUST be used once and only once.   |
| Definition     | The container element for Organization information elements.   |
| Comments       | 1. The generic element Organization refers to the entity, the status and availability of which is being reflected in the status message.       |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">OrganizationInformation</a></li> <li>• <a href="#">OrganizationGeoLocation</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital</a>  |

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|----------------|--|
| <b>Element</b> | <have:OrganizationInformation>   |
| Type           | XML Structure  |
| Usage          | <b>REQUIRED</b> , MUST be used once and only once, top level container   |
| Definition     | The container element for Organization Information elements.   |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">OrganisationName</a></li> <li>• <a href="#">OrganisationInfo</a></li> <li>• <a href="#">Addresses</a></li> <li>• <a href="#">ContactNumbers</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization</a>   |

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|--------------------|---|
| <b>Element</b>     | <have:OrganizationGeoLocation>  |
| <b>Type</b>        | geo-oasis: <del>WhereType</del> where   |
| <b>Usage</b>       | <b>OPTIONAL</b>   |
| <b>Definition</b>  | The container element for specifying the geo-coded address.   |
| <b>Constraints</b> | 1. The geo-location <b>MUST</b> match the address specified in <OrganizationInformation>  |
| <b>Comments</b>    | <ol style="list-style-type: none"> <li>1. This specification uses the OASIS GML profile for specifying the geo-location.</li> <li>2. The type "geo-oasis:WhereType" is specified in [geo-oasis] as having a complex content that is a choice between five elements (See 3.2.8.4).</li> <li>3. It is <b>RECOMMENDED</b> that the element &lt;gml:Point&gt; be used in an EDXL-HAVE document in preference to the other four elements.</li> </ol> <p>Note: See Appendix D</p> |
| <b>Used In</b>     | <a href="#">HospitalStatus/Hospital/Organization</a>  |

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### 266 3.2.3 EMERGENCY DEPARTMENT STATUS

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| <b>Element</b>    | <have:EmergencyDepartmentStatus>  |
| <b>Type</b>       | XML Structure   |
| <b>Usage</b>      | <b>OPTIONAL</b>   |
| <b>Definition</b> | The container of all of the elements related to the emergency department status.  |
| <b>Comments</b>   | <ol style="list-style-type: none"> <li>1. It describes the ability of this emergency department to treat patients.</li> </ol> |

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| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">EMSTraffic</a></li> <li>• <a href="#">EMSCapacity</a></li> <li>• <a href="#">EMSCensus</a></li> <li>• <a href="#">EMSAmbulanceStatus</a></li> <li>• <a href="#">EMSAirTransportStatus</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| Used In      | <a href="#">HospitalStatus/Hospital</a>  |

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| <b>Element</b> | <code>&lt;have:EMSTraffic&gt;</code>  |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container of all of the elements related to the status of operations of EMS traffic.  |
| Comments       | <ol style="list-style-type: none"> <li>1. It defines the ability of this emergency department to receive patients via emergency medical services.</li> </ol>            |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">EMSTrafficStatus</a></li> <li>• <a href="#">EMSTrafficReason</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a>   |

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| <b>Element</b> | <code>&lt;have:EMSTrafficStatus&gt;</code>   |
| Type           | xsd:string with restrictions   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | Identifies the status of EMS traffic operations.   |
| Comments       | <p>Value must be one of:</p> <ol style="list-style-type: none"> <li>1. Normal - Accepting all EMS traffic</li> <li>2. Advisory - Experiencing specific resource limitations which may affect transport of some EMS traffic.</li> <li>3. Closed - Requesting re-route of EMS traffic to other facilities.</li> <li>4. NotApplicable - Not Applicable. This hospital does not have an emergency department.</li> </ol> |

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| Used In | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSTraffic</a> |
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| <b>Element</b> | <have:EMSTrafficReason>   |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | It is used to report the contributing factor to the status specified in <EMSTrafficStatus>. |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSTraffic</a>                |

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| <b>Element</b> | <have:EMSCapacity>  |
| Type           | TriageCount   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The number of each triage patient type the hospital can accept.   |
| Comments       | 1. Please refer to Sec. 3.2.8.25                                  |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a> |

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| <b>Element</b> | <have:EMSCensus>   |
| Type           | TriageCount  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The number of each triage patient type the overall hospital currently has. |
| Comments       | 1. Please refer to Sec 3.2.8.5   |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a>          |

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| Element     | <have:TriageCodeListURN>   |
| Type        | xsd:anyURI   |
| Usage       | CONDITIONAL  |
| Definition  | The name of a certified list maintained by the Community of Interest (COI) for the value referenced. The list identifies the triage codes used by the particular community.  |
| Constraints | <ol style="list-style-type: none"> <li>1. &lt;Hospital&gt; element MAY contain a &lt;TriageCodeListURN&gt; element as specified in the schema, but MUST NOT contain more than one such element.</li> <li>2. If a &lt;TriageCodeListURN&gt; element is present within a &lt;Hospital&gt; element, it MUST precede the first &lt;TriageCode&gt; element within that &lt;Hospital&gt; element.</li> <li>3. If a &lt;TriageCodeListURN&gt; element is present within a &lt;Hospital&gt; element and is not empty, then the values of all the &lt;TriageCodeValue&gt; elements within that &lt;Hospital&gt; element MUST be interpreted according to the URN in the &lt;TriageCodeListURN&gt; element.</li> <li>4. If a &lt;TriageCodeListURN&gt; element is not present within a &lt;Hospital&gt; element or it is present but empty, then the values of all the &lt;TriageCodeValue&gt; elements within that &lt;Hospital&gt; element MUST be interpreted according to the following URN:<br/> urn:oasis:names:tc:emergency:have:1.1:triagecolorcode<br/> which identifies the code list specified in the data dictionary entry for the element &lt;TriageCodeValue&gt;.</li> </ol> |
| Used In     | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCensus/TriageCount</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCapacity/TriageCount</a>   |

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| Element     | <have:TriageCode>   |
| Type        | Value and Associated Lists  |
| Usage       | <b>OPTIONAL</b> , May use Multiple  |
| Definition  | The container element to specify the triage values and their quantity.  |
| Constraints | <ol style="list-style-type: none"> <li>1. Multiple instances of the &lt;TriageCodeValue&gt; MAY occur with a single &lt;TriageCodeListURN&gt;</li> <li>2. Each &lt;TriageCodeValue&gt; and its associated &lt;TriageCountQuantity&gt; MUST be enclosed in &lt;TriageCode&gt;</li> </ol> |
| Comments    | <ol style="list-style-type: none"> <li>1. The list and associated value(s) is in the form:<br/> <pre>&lt;have:TriageCodeListURN&gt;urn:oasis:names:tc:emergency:have:1.0:tri</pre> </li> </ol>  |

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|                | <pre>agecolorcode&lt;/have:TriageCodeListURN&gt; &lt;have:TriageCode&gt; &lt;have:TriageCodeValue&gt;Red&lt;/have:TriageCodeValue&gt; &lt;have:TriageCountQuantity&gt;20&lt;/have:TriageCountQuantity&gt; &lt;/have:TriageCode&gt;</pre> <p>where the content of &lt;TriageCodeListUrn&gt; is the Uniform Resource Name of a published list of values and definitions, and the content of &lt;TriageCodeListValue&gt; is a string (which may represent a number) denoting the value itself.</p> |
| Sub – elements | <ul style="list-style-type: none"> <li>• <a href="#">TriageCodeValue</a></li> <li>• <a href="#">TriageCountQuantity</a></li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCensus/TriageCount</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCapacity/TriageCount</a>  |

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| <b>Element</b> | <have:TriageCodeValue>  |
| Type           | xsd:string  |
| Usage          | <b>CONDITIONAL</b> , MAY use multiple   |
| Definition     | A value from a certified list maintained by the Community of Interest (COI) for the referenced element.   |
| Constraints    | <ol style="list-style-type: none"> <li>1. The list of values SHOULD be from the list identified in &lt;TriageCodeListURN&gt;</li> <li>2. If a &lt;TriageCodeValue&gt; is specified, a &lt;TriageCountQuantity&gt; element MUST be specified.</li> </ol> <p>Default Code List Values:</p> <ul style="list-style-type: none"> <li>• Red – Number of victims with immediate needs.</li> <li>• Yellow - Number of victims with delayed needs</li> <li>• Green - Number of victims with minor needs</li> <li>• Black - Number of deceased victims</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCensus/TriageCodeunt</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCapacity/TriageCodeunt</a>  |

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| <b>Element</b> | <have:TriageCountQuantity> |
| Type           | xsd:integer                |

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| Usage       | <b>CONDITIONAL</b> , MAY use multiple  |
| Definition  | The integer value associated with the Triage Code value.   |
| Constraints | 1. If a <TriageCodeValue> is specified, a <TriageCountQuantity> element MUST be specified.   |
| Used In     | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCensus/TriageCode</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCapacity/TriageCode</a> |

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279 Example:

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<have:EMSCapacity>
  <have:TriageCodeListURN>
urn:oasis:names:tc:emergency:have:1.0:triagecolorcode
  </have:TriageCodeListURN>
  <have:TriageCode>
  <have:TriageCodeValue>Red</have:TriageCodeValue>
  <have:TriageCountQuantity>20</have:TriageCountQuantity>
  </have:TriageCode>
  <have:TriageCode>
  <have:TriageCodeValue>Yellow</have:TriageCodeValue>
  <have:TriageCountQuantity>30</have:TriageCountQuantity>
  </have:TriageCode>
  <have:TriageCode>
  <have:TriageCodeValue>Green</have:TriageCodeValue>
  <have:TriageCountQuantity>40</have:TriageCountQuantity>
  </have:TriageCode>
  <have:TriageCode>
  <have:TriageCodeValue>Black</have:TriageCodeValue>
  <have:TriageCountQuantity>10</have:TriageCountQuantity>
  </have:TriageCode>
</have:EMSCapacity>

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| Element      | <have:EMSAmbulanceStatus>   |
| Type         | Offload   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element to indicate the status and offload time for ground ambulance capabilities.  |
| Comments     | <ol style="list-style-type: none"> <li>1. The time it takes to transfer care of a patient to hospital staff, thereby freeing the ambulance for assignment.</li> <li>2. Select from Normal or Delayed and/or specify the average offload average offload time in minutes.</li> </ol> |
| Sub-elements | <input type="checkbox"/> CommentText  |

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| Used In | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a> |
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| <b>Element</b> | <have:EMSAirTransportStatus>  |
| Type           | Offload   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element to indicate the status and offload time for air ambulance capabilities.   |
| Comments       | <ol style="list-style-type: none"> <li>1. The time it takes to transfer care of a patient to hospital staff, thereby freeing the ambulance for assignment.</li> <li>2. Select from Normal or Delayed and/or specify the average offload average offload time in minutes.</li> </ol> |
| <u>Used In</u> | <u><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a></u>  |

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|                |   |
|----------------|---|
| <b>Element</b> | <have:EMSOffloadStatus>   |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Indicator of offload times of ambulance capabilities.   |
| Constraints    | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Normal – The time required to offload the patient is typical</li> <li>2. Delayed – The time required to offload the patient is longer than typical.</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAmbulanceStatus/Offload</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAirTransportStatus/Offload</a>                         |

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| <b>Element</b> | <have:EMSOffloadMinutes> |
| Type           | xsd:integer              |
| Usage          | <b>OPTIONAL</b>          |

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|------------|---|
| Definition | The average time to offload a patient, in minutes.  |
| Used In    | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAmbulanceStatus/Offload</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAirTransportStatus/Offload</a> |

305 **3.2.4 HOSPITAL BED CAPACITY STATUS**

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307 Note: Please refer to Appendix B for definitions for bed types.

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|---------------------|---|
| <b>Element</b>      | <code>&lt;have:HospitalBedCapacityStatus&gt;</code>   |
| <b>Type</b>         | XML Structure   |
| <b>Usage</b>        | <b>OPTIONAL</b>   |
| <b>Definition</b>   | The container of all of the elements related to the hospital bed capacity and status.   |
| <b>Constraints</b>  | <ol style="list-style-type: none"> <li>1. For each of the bed types (AdultICU, MedicalSurgical, etc.), if needed, a collection of named sub-types MAY be provided.</li> <li>2. A hospital MAY specify the number of sub-categories without specifying all of the sub-categories.</li> <li>3. The totals of sub-categories MAY equal the capacity data specified in the parent.</li> </ol> |
| <b>Comments</b>     | Example, a hospital may sub-categorize Adult ICU beds into Surgery, Cardiac, General and Neuro.   |
| <b>Sub-elements</b> | <ul style="list-style-type: none"> <li>• <a href="#">BedCapacity</a></li> </ul>   |
| <b>Used In</b>      | <a href="#">HospitalStatus/Hospital</a>   |

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|---------------------|---|
| <b>Element</b>      | <code>&lt;have:BedCapacity&gt;</code>   |
| <b>Type</b>         | XML Structure   |
| <b>Usage</b>        | <b>CONDITIONAL</b> ; May use multiple   |
| <b>Definition</b>   | Container element to identify the number of available beds.   |
| <b>Constraints</b>  | <ol style="list-style-type: none"> <li>1. Multiple instances of <code>&lt;BedCapacity&gt;</code> elements MAY be specified.</li> <li>2. Each parent <code>&lt;BedType&gt;</code> element and its associated sub-category bed types MUST be encapsulated with a <code>&lt;BedCapacity&gt;</code> element.</li> </ol> |
| <b>Sub-elements</b> | <ul style="list-style-type: none"> <li>• <a href="#">BedType</a></li> <li>• <a href="#">SubCategoryBedType</a></li> <li>• <a href="#">CommentText</a></li> <li>• <a href="#">Capacity</a></li> </ul>  |

|         |   |
|---------|---|
| Used In | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus</a> |
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| <b>Element</b>     | <have:BedType>  |
| <b>Type</b>        | xsd:string with restrictions  |
| <b>Usage</b>       | <b>OPTIONAL</b> , May use multiple  |
| <b>Definition</b>  | Enumerated list of available Bed Types.   |
| <b>Constraints</b> | <ol style="list-style-type: none"> <li>1. Each bed type (AdultICU, MedicalSurgical, etc.) MAY optionally contain a collection of named sub-categories.</li> <li>2. The totals of sub-categories MAY equal the capacity data specified in the parent.</li> </ol>   |
| <b>Comments</b>    | <p>Values:</p> <ol style="list-style-type: none"> <li>1. AdultICU - Capacity status for adult ICU bed type. <ul style="list-style-type: none"> <li>• These can support critically ill or injured patients, including ventilator support.</li> <li>• 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.</li> </ul> </li> <li>2. PediatricICU <ul style="list-style-type: none"> <li>• Capacity status for pediatric ICU beds. This is similar to adult ICU beds, but for patients 17-years-old and younger.</li> </ul> </li> <li>3. NeonatalICU <ul style="list-style-type: none"> <li>• Capacity status for neonatal ICU beds.</li> </ul> </li> <li>4. EmergencyDepartment <ul style="list-style-type: none"> <li>• Capacity status for beds within the Emergency Department used for acute care.</li> </ul> </li> <li>5. NurseryBeds <ul style="list-style-type: none"> <li>• Capacity Status for Neonatal or newborn care beds including all bed types other than Neonatal ICU</li> </ul> </li> <li>6. MedicalSurgical - Capacity status for medical-surgical beds. <ul style="list-style-type: none"> <li>• These are also thought of as ward beds.</li> <li>• These beds may or may not include cardiac telemetry capability</li> </ul> </li> <li>7. RehabLongTermCare – Capacity Status for Rehabilitation/Long term care beds. <ul style="list-style-type: none"> <li>• Beds designated as long term care rehabilitation. These do not include floor beds.</li> </ul> </li> <li>8. Burn - Capacity status for burn beds. <ul style="list-style-type: none"> <li>• These are thought of as burn ICU beds, either approved by the American Burn Association or self-designated.</li> <li>• These beds are NOT to be included in other ICU bed counts.</li> </ul> </li> <li>9. Pediatrics</li> </ol> |

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|         | <ul style="list-style-type: none"> <li>Capacity status for pediatrics beds. These are ward medical/surgical beds for patients 17-years-old and younger.</li> </ul> <p>10. AdultPsychiatric</p> <ul style="list-style-type: none"> <li>Capacity status for adult psychiatric beds. These are ward beds on a closed/locked psychiatric unit or ward beds where a patient will be attended by a sitter.</li> </ul> <p>11. PediatricPsychiatric</p> <ul style="list-style-type: none"> <li>Capacity status for pediatric psychiatric beds. These are ward beds on a closed/locked psychiatric unit or ward beds where a patient will be attended by a sitter</li> </ul> <p>12. NegativeFlowIsolation</p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p>13. OtherIsolation</p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p>14. OperatingRooms</p> <ul style="list-style-type: none"> <li>Capacity status for operating rooms which are equipped staffed and could be made available for patient care in a short period of time.</li> </ul> <p>Example, a hospital may sub-categorize Adult ICU beds into Surgery, Cardiac, General and Neuro.</p> |
| Used In | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity</a>  |

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|-------------|---|
| Element     | <have:SubCategoryBedType>   |
| Type        | xsd:string  |
| Usage       | <b>OPTIONAL</b> , MAY use multiple  |
| Definition  | The name of the sub-category bed type   |
| Constraints | <ol style="list-style-type: none"> <li>Each bed type MAY have many one or more named sub-type categories.</li> <li>If one or more sub category bed types are used, they MUST be preceded by the parent &lt;BedType&gt; element. In this case, &lt;CapacityStatus&gt; of the parent Bed Type MUST not be 'NotAvailable'.</li> <li>Each parent &lt;BedType&gt; element and its associated sub-category bed types MUST be encapsulated with a &lt;BedCapacity&gt; element.</li> <li>If the capacity counts of sub-category beds are specified, they MAY not equal the capacity count of the parent bed type.</li> <li>In general, if capacities are specified using sub-category bed types, then only the &lt;CapacityStatus&gt; of the parent bed type MUST be used, and this should reflect an 'Available' value. No assumptions should be made about capacities that</li> </ol> |

|          |   |
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|          | are not specified.  |
| Comments | <ol style="list-style-type: none"> <li>1. If a &lt;Capacity&gt; element is specified, it pertains to the preceding &lt;BedType&gt; or &lt;SubCategoryBedType&gt; element.<br/>Note: Please see example at the end of this section.</li> </ol> |
| Used In  | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity</a>   |

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|                |  |
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| <b>Element</b> | <have:Capacity>  |
| Type           | xsd:string   |
| Usage          | <b>OPTIONAL</b> , May use multiple   |
| Definition     | Container element to define the capacity information of each specified bed type or sub category bed type.  |
| Constraints    | <ol style="list-style-type: none"> <li>1. &lt;BedType&gt; element or &lt;SubCategoryBedType&gt; elements MAY have a &lt;Capacity&gt; element.</li> <li>2. In general, if capacities are specified using sub-category bed types, then only the &lt;CapacityStatus&gt; of the parent bed type MUST be used, and this MUST reflect an 'Available' value.</li> </ol> |
| Comments       | <ol style="list-style-type: none"> <li>1. If a &lt;Capacity&gt; element is specified, it pertains to the preceding &lt;BedType&gt; or &lt;SubCategoryBedType&gt; element.</li> <li>2. No assumptions must be made about bed capacities that are not specified.</li> </ol>  |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">CapacityStatus</a></li> <li>• <a href="#">AvailableCount</a></li> <li>• <a href="#">BaselineCount</a></li> <li>• <a href="#">AdditionalCapacityCount24Hr</a></li> <li>• <a href="#">AdditionalCapacityCount72Hr</a></li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity</a>  |

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|                |   |
|----------------|---|
| <b>Element</b> | <have:CapacityStatus>                                     |
| Type           | xsd:string with restrictions                              |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Indicator of status of bed type or sub-category bed type. |

|             |  |
|-------------|--|
| Constraints | <ol style="list-style-type: none"> <li>Values: <ul style="list-style-type: none"> <li>VacantAvailable – The type of bed is available.</li> <li>NotAvailable – The type of bed is not available.</li> </ul> </li> </ol>   |
| Comments    | <ol style="list-style-type: none"> <li>No assumptions must be made about bed capacities that are not specified.</li> <li>Vacant/Available Beds refers to beds that are vacant and to which patients can be immediately transported. These will 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.</li> </ol> <p>Note: Please refer to appendix B</p> |
| Used In     | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity/Capacity</a>   |

314

|            |   |
|------------|---|
| Element    | <have:AvailableCount>   |
| Type       | xsd:integer   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The number of vacant/available beds to which patients can be immediately transported.   |
| Comments   | <ol style="list-style-type: none"> <li>These will include supporting space, equipment, medical material, ancillary and support services, and staff to operate under normal circumstances.</li> <li>These beds are licensed, physically available and have staff on hand to attend to the patient who occupies the bed.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity/Capacity</a>  |

315

|            |  |
|------------|--|
| Element    | <have:BaselineCount>   |
| Type       | xsd:integer  |
| Usage      | <b>OPTIONAL</b>  |
| Definition | The maximum (baseline) number of beds in this category.                                |
| Used In    | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity/Capacity</a> |

316

|                   |   |
|-------------------|---|
| <b>Element</b>    | <have:AdditionalCapacityCount24Hr>  |
| <b>Type</b>       | xsd:integer   |
| <b>Usage</b>      | <b>OPTIONAL</b>   |
| <b>Definition</b> | Estimate of the beds, above the current number, that could be made vacant/available within 24 hours.              |
| <b>Comments</b>   | 1. This includes institutional surge beds as well as beds made available by discharging or transferring patients. |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity/Capacity</a>                            |

317

|                   |   |
|-------------------|---|
| <b>Element</b>    | <have:AdditionalCapacityCount72Hr>  |
| <b>Type</b>       | xsd:integer   |
| <b>Usage</b>      | <b>OPTIONAL</b>   |
| <b>Definition</b> | Estimate of the beds, above the current number, that could be made vacant/available within 72 hours.              |
| <b>Comments</b>   | 1. This includes institutional surge beds as well as beds made available by discharging or transferring patients. |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity/Capacity</a>                            |

318

319 Example 1:

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```

<have:HospitalBedCapacityStatus>
  <have:BedCapacity>
    <have:BedType> AdultICU </have:BedType>
    <have:Capacity>
      <have:CapacityStatus> Available </have:CapacityStatus>
    </have:Capacity>
    <have:SubCategoryBedType> Surgery </have:SubCategoryBedType>
    <have:Capacity>
      <have:CapacityStatus> Vacant/Available </have:CapacityStatus>
      <have:AvailableCount> 40 </have:AvailableCount>
    </have:Capacity>
    <have:SubCategoryBedType> General </have:SubCategoryBedType>
    <have:Capacity>
      <have:CapacityStatus> Vacant/Available </have:CapacityStatus>
      <have:AvailableCount> 20 </have:AvailableCount>
    </have:Capacity>
  </have:BedCapacity>

```

339

340 Example 2:

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```
342 <have:HospitalBedCapacityStatus>  
343   <have:BedCapacity>  
344     <have:BedType> AdultICU </have:BedType>  
345     <have:Capacity>  
346       <have:CapacityStatus> Available </have:CapacityStatus>  
347       <have:AvailableCount> 40 </have:AvailableCount>  
348     </have:Capacity>  
349   </have:BedCapacity>  
350 </have:HospitalBedCapacityStatus>
```

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353 **3.2.5 SERVICE COVERAGE STATUS**

354

|                     |   |
|---------------------|---|
| <b>Element</b>      | <have:ServiceCoverageStatus>  |
| <b>Type</b>         | XML Structure   |
| <b>Usage</b>        | <b>OPTIONAL</b>   |
| <b>Definition</b>   | The 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.  |
| <b>Constraints</b>  | <ol style="list-style-type: none"> <li>1. Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>  |
| <b>Comments</b>     | <ol style="list-style-type: none"> <li>1. Some of the services capabilities are broken down into subtypes. This is to allow organizations to designate subtypes, if available.</li> <li>2. If not, only the higher level specialties are reported.</li> <li>3. Organizations can either report the parent category or report the subcategories.</li> </ol>  |
| <b>Sub-elements</b> | <ul style="list-style-type: none"> <li>• <a href="#">Burn</a></li> <li>• <a href="#">CardiologyIndicator</a></li> <li>• <a href="#">Dialysis</a></li> <li>• <a href="#">EmergencyDepartment</a></li> <li>• <a href="#">HyperbaricChamber</a></li> <li>• <a href="#">InfectiousDiseases</a></li> <li>• <a href="#">Neonatology</a></li> <li>• <a href="#">NeurologyIndicator</a></li> <li>• <a href="#">OBGYNIndicator</a></li> <li>• <a href="#">Ophthalmology</a></li> <li>• <a href="#">Orthopedic</a></li> <li>• <a href="#">Pediatrics</a></li> <li>• <a href="#">PsychiatricIndicator</a></li> <li>• <a href="#">SurgeryIndicator</a></li> <li>• <a href="#">TransportServicesIndicator</a></li> <li>• <a href="#">TraumaCenterServicesIndicator</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| <b>Used In</b>      | <a href="#">HospitalStatus/Hospital</a>   |

355

|                |             |
|----------------|-------------|
| <b>Element</b> | <have:Burn> |
|----------------|-------------|

|            |   |
|------------|---|
| Type       | xsd:boolean   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of burn center services.   |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

356

|                |   |
|----------------|---|
| <b>Element</b> | <have:CardiologyIndicator>  |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of Cardiology services.   |
| Constraints    | 1. <del>Either &lt;have:Cardiology&gt; OR &lt;have:CardiologySubType&gt; must be used - but must not be used together. Either one—the parent category or the subcategories—MUST be used. Both MUST not be used together.</del>  |
| Comments       | <ol style="list-style-type: none"> <li>1. This service capability is broken down into the below subcategories. This is to allow organizations to designate subcategories, if available.</li> <li>2. Organizations can either report the parent category or report the subcategories.</li> </ol> |
| Sub-elements   | Choice: <ul style="list-style-type: none"> <li>• Cardiology</li> <li>• CardiologySubType</li> </ul>   |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

357

|                |  |
|----------------|--|
| <b>Element</b> | <have:Cardiology>                        |
| Type           | xsd:boolean                              |
| Usage          | <b>OPTIONAL</b>                          |
| Definition     | The availability of cardiology services. |

|          |  |
|----------|--|
| Comments | <p>Values:</p> <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> <pre> Example: &lt;have:ServiceCoverageStatus&gt; &lt;have:CardiologyIndicator&gt;   &lt;have:Cardiology&gt;true&lt;/have:Cardiology&gt; &lt;/have:CardiologyIndicator&gt; &lt;/have:ServiceCoverageStatus&gt;  Example: &lt;have:ServiceCoverageStatus&gt;   &lt;have:CardiologyIndicator&gt;     &lt;have:CardiologySubType&gt;       &lt;have:CardiologyInvasive&gt;true&lt;/have:CardiologyInvasive&gt;       &lt;have:CardiologyNonInvasive&gt;&gt;false&lt;/have:CardiologyNonInvasive&gt;     &lt;/have:CardiologySubType&gt;   &lt;/have:CardiologyIndicator&gt; &lt;/have:ServiceCoverageStatus&gt; </pre> |
| Used In  | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/CardiologyIndicator</a>  |

358

|              |   |
|--------------|---|
| Element      | <have:CardiologySubType>  |
| Type         | XML Structure   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element for specifying the availability of Cardiology services that are broken down into sub-types.       |
| Sub-elements | <p>Choices:</p> <ul style="list-style-type: none"> <li>• CardiologyInvasive</li> <li>• CardiologyNonInvasive</li> </ul> |
| Used In      | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/CardiologyIndicator</a>                                       |

359

|            |   |
|------------|---|
| Element    | <have:CardiologyInvasive>                         |
| Type       | xsd:boolean                                       |
| Usage      | <b>OPTIONAL</b>                                   |
| Definition | The availability of cardiology-invasive services. |

|          |   |
|----------|---|
| Comments | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In  | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/</a> <a href="#">CardiologyIndicator/</a> CardiologySubType   |

360

|                |   |
|----------------|---|
| <b>Element</b> | <have:CardiologyNonInvasive>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of cardiology-non-invasive services.   |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/</a> CardiologySubType  |

361

|                |   |
|----------------|---|
| <b>Element</b> | <have:Dialysis>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of dialysis services.  |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

362

|                |                            |
|----------------|----------------------------|
| <b>Element</b> | <have:EmergencyDepartment> |
| Type           | xsd:boolean                |
| Usage          | <b>OPTIONAL</b>            |

|            |   |
|------------|---|
| Definition | The availability of Emergency Department services.  |
| Comments   | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

363

|                |   |
|----------------|---|
| <b>Element</b> | <have:HyperbaricChamber>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of hyperbaric chamber services for decompression and/or wound care.  |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

364

|                |   |
|----------------|---|
| <b>Element</b> | <have:InfectiousDiseases>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of infectious diseases services.   |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

365

|                |                    |
|----------------|--------------------|
| <b>Element</b> | <have:Neonatology> |
|----------------|--------------------|

|            |   |
|------------|---|
| Type       | xsd:boolean   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of neonatology services.   |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

366

|                |   |
|----------------|---|
| <b>Element</b> | <have:NeurologyIndicator>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of Neurology services.  |
| Constraints    | <ol style="list-style-type: none"> <li>1. Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>  |
| Comments       | <ol style="list-style-type: none"> <li>1. This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li>2. Organizations can either report the parent category or report the subcategories.</li> </ol> |
| Sub-elements   | Choices: <ul style="list-style-type: none"> <li>• Neurology</li> <li>• NeurologySubType</li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

367

|                |   |
|----------------|---|
| <b>Element</b> | <have:Neurology>                        |
| Type           | xsd:boolean                             |
| Usage          | <b>OPTIONAL</b>                         |
| Definition     | The availability of neurology services. |

|          |   |
|----------|---|
| Comments | <p>Values:</p> <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0"- This type of services is not available.</li> </ol> |
| Used In  | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/NeurologyIndicator</a>  |

368

|                |  |
|----------------|--|
| <b>Element</b> | <have:NeurologySubType>  |
| Type           | XML Structure  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The container element for specifying the availability of Neurology services that are broken down into sub-types.     |
| Sub-elements   | <p>Choice:</p> <ul style="list-style-type: none"> <li>• NeurologyInvasive</li> <li>• NeurologyNonInvasive</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/NeurologyIndicator</a>                                     |

369

|                |   |
|----------------|---|
| <b>Element</b> | <have:NeurologyInvasive>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of Neurology-Invasive services, including invasive catheterization.  |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0"- This type of services is not available.</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/NeurologyIndicator/NeurologySubType</a>   |

370

|                |                             |
|----------------|-----------------------------|
| <b>Element</b> | <have:NeurologyNonInvasive> |
| Type           | xsd:boolean                 |

|            |   |
|------------|---|
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of Neurology-Non-Invasive services with no invasive catheterization capability.  |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/NeurologyIndicator/NeurologySubType</a>   |

371

|              |   |
|--------------|---|
| Element      | <have:OBGYNIndicator>   |
| Type         | XML Structure   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element for specifying the availability of OBGYN services.  |
| Constraints  | <ol style="list-style-type: none"> <li>1. Either one – the parent category or the subcategories - must be used. Both MUST not be used together.</li> </ol>  |
| Comments     | <ol style="list-style-type: none"> <li>1. This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li>2. Organizations can either report the parent category or report the subcategories.</li> </ol> |
| Sub-elements | Choices: <ul style="list-style-type: none"> <li>• OBGYN</li> <li>• OBGYNSubType</li> </ul>  |
| Used In      | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

372

|            |  |
|------------|--|
| Element    | <have:OBGYN>   |
| Type       | xsd:boolean  |
| Usage      | <b>OPTIONAL</b>  |
| Definition | The availability of OBGYN services <del>with labor delivery services.</del>                                      |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> </ol> |

|         |  |
|---------|--|
|         | 2. "false" or "0" - This type of services is not available.                  |
| Used In | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/OBGYNIndicator</a> |

373

|                |   |
|----------------|---|
| <b>Element</b> | <have:OBGYNSubType>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of OBGYN services that are broken down into sub-types.            |
| Sub-elements   | Choice: <ul style="list-style-type: none"> <li>• OBGYNWithLaborDelivery</li> <li>• OBGYNWithoutLaborDelivery</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/OBGYNIndicator</a>  |

374

|                |   |
|----------------|---|
| <b>Element</b> | <have:OBGYNWithLaborDelivery>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of OBGYN services with labor delivery services.  |
| Comments       | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/OBGYNIndicator/OBGYNSubType</a>   |

375

|                |  |
|----------------|--|
| <b>Element</b> | <have:OBGYNWithoutLaborDelivery>                                   |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of OGYN Services without Labor Delivery Services. |

|          |   |
|----------|---|
| Comments | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In  | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/OBGYNIndicator/OBGYNSubType</a>   |

376

|                |   |
|----------------|---|
| <b>Element</b> | <have:Ophthalmology>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of Ophthalmology services.   |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

377

|                |   |
|----------------|---|
| <b>Element</b> | <have:Orthopedic>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of orthopedic services.  |
| Comments       | Values: <ul style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

378

|                |                   |
|----------------|-------------------|
| <b>Element</b> | <have:Pediatrics> |
| Type           | xsd:boolean       |

|            |   |
|------------|---|
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of pediatric services.   |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

379

|                |   |
|----------------|---|
| <b>Element</b> | <have:PsychiatricIndicator>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of Psychiatric services.  |
| Constraints    | <ol style="list-style-type: none"> <li>1. Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>  |
| Comments       | <ol style="list-style-type: none"> <li>1. This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li>2. Organizations MAY either report the parent category or report the subcategories.</li> </ol> |
| Sub-elements   | Choices: <ul style="list-style-type: none"> <li>• Psychiatric</li> <li>• PsychiatricSubType</li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

380

|                |  |
|----------------|--|
| <b>Element</b> | <have:Psychiatric>   |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of psychiatric services.  |
| Comments       | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> </ol> |

|         |  |
|---------|--|
|         | 2. "false" or "0" - This type of services is not available.                        |
| Used In | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/PsychiatricIndicator</a> |

381

|                |   |
|----------------|---|
| <b>Element</b> | <have:PsychiatricSubType>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of Psychiatric services that are broken down into sub-types.    |
| Sub-elements   | Choice: <ol style="list-style-type: none"> <li>1. PsychiatricAdultGeneral</li> <li>2. PsychiatricPediatric</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/PsychiatricIndicator</a>                                    |

382

|                |   |
|----------------|---|
| <b>Element</b> | <have:PsychiatricAdultGeneral>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Availability of Adult General Psychiatric services.   |
| Comments       | <ol style="list-style-type: none"> <li>1. Sub-type element of the psychiatric services.</li> <li>2. Values: <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/PsychiatricIndicator/PsychiatricSubType</a>   |

383

|                |                             |
|----------------|-----------------------------|
| <b>Element</b> | <have:PsychiatricPediatric> |
| Type           | xsd:boolean                 |

|            |   |
|------------|---|
| Usage      | <b>OPTIONAL</b>   |
| Definition | Availability of Pediatric Psychiatric services.   |
| Comments   | <ol style="list-style-type: none"> <li>Sub-type element of the psychiatric services.</li> <li>Values: <ul style="list-style-type: none"> <li>“true” or “1” - This type of services is available.</li> <li>“false” or “0” - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/PsychiatricIndicator/PsychiatricSubType</a>   |

384

|              |   |
|--------------|---|
| Element      | <have:SurgeryIndicator>   |
| Type         | XML Structure   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element for specifying the availability of Surgery services.  |
| Constraints  | <ol style="list-style-type: none"> <li>Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>   |
| Comments     | <ol style="list-style-type: none"> <li>This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li><u>Organizations MAY either report the parent category or report the subcategories.</u></li> <li><u>Surgery Services and Surgical Services are used interchangeably.</u></li> </ol> |
| Sub-elements | <p>Choices:</p> <ul style="list-style-type: none"> <li>Surgery</li> <li>SurgerySubType</li> </ul>   |
| Used In      | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

385

|            |                                       |
|------------|---------------------------------------|
| Element    | <have:Surgery>                        |
| Type       | xsd:boolean                           |
| Usage      | <b>OPTIONAL</b>                       |
| Definition | The availability of surgery services. |

|          |  |
|----------|--|
| Comments | <p>Values:</p> <ul style="list-style-type: none"> <li>• “true” or “1” - This type of services is available.</li> <li>• “false” or “0” - This type of services is not available.</li> </ul> |
| Used In  | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator</a>   |

386

|                |   |
|----------------|---|
| <b>Element</b> | <have:SurgerySubType>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for specifying the availability of surgery services that are broken down into sub-types.  |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">General</a></li> <li>• <a href="#">AdultGeneralSurgery</a></li> <li>• <a href="#">Pediatrics</a></li> <li>• <a href="#">Orthopedics</a></li> <li>• <a href="#">NeuroSurgery</a></li> <li>• <a href="#">Facial</a></li> <li>• <a href="#">CardioThoracic</a></li> <li>• <a href="#">Hand</a></li> <li>• <a href="#">Reimplantation</a></li> <li>• <a href="#">Spinal</a></li> <li>• <a href="#">Vascular</a></li> <li>• <a href="#">Anesthesia</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator</a>  |

387

|                |  |
|----------------|--|
| <b>Element</b> | <have:General>   |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of general surgical services.   |
| Comments       | <ol style="list-style-type: none"> <li>1. Sub-type element of the adult general services.</li> </ol> |

|         |   |
|---------|---|
|         | <p>2. Values:</p> <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> |
| Used In | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

388

|                |   |
|----------------|---|
| <b>Element</b> | <have:AdultGeneralSurgery>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of adult general services.   |
| Comments       | <p>1. Sub-type element of the adult general services.</p> <p>2. Values:</p> <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

389

|                |   |
|----------------|---|
| <b>Element</b> | <have:Pediatrics>   |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of Pediatrics general surgical services.   |
| Comments       | <p>1. Sub-type element of pediatrics general surgical services.</p> <p>2. Values:</p> <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

390

|                |                    |
|----------------|--------------------|
| <b>Element</b> | <have:Orthopedics> |
|----------------|--------------------|

|            |   |
|------------|---|
| Type       | xsd:boolean   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of Orthopedic surgical services.   |
| Comments   | <ol style="list-style-type: none"> <li>Sub-type element of orthopedic surgical services.</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

391

|                |  |
|----------------|--|
| <b>Element</b> | <have:NeuroSurgery>  |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of Neurosurgery services.   |
| Comments       | <ol style="list-style-type: none"> <li>Sub-type element of neurosurgery services.</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>  |

392

|                |  |
|----------------|--|
| <b>Element</b> | <have:Facial>  |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of facial surgical services.  |
| Comments       | <ol style="list-style-type: none"> <li>Sub-type element of facial surgery services.</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |

|         |   |
|---------|---|
| Used In | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a> |
|---------|---|

393

|                |  |
|----------------|--|
| <b>Element</b> | <have:CardioThoracic>  |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of cardiothoracic surgical services.  |
| Comments       | <ol style="list-style-type: none"> <li>1. Sub-type element of cardiothoracic services.</li> <li>2. Values: <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>  |

394

|                |  |
|----------------|--|
| <b>Element</b> | <have:Hand>  |
| Type           | xsd:boolean  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The availability of hand surgery services.   |
| Comments       | <ol style="list-style-type: none"> <li>1. Sub-type element of hand surgery services.</li> <li>2. Values: <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>  |

395

|                |                       |
|----------------|-----------------------|
| <b>Element</b> | <have:Reimplantation> |
| Type           | xsd:boolean           |
| Usage          | <b>OPTIONAL</b>       |

|            |   |
|------------|---|
| Definition | The availability of reimplantation surgical services.   |
| Comments   | <ol style="list-style-type: none"> <li>Sub-type element of reimplantation surgical services.</li> <li>Values: <ul style="list-style-type: none"> <li>Available - This type of services is available.</li> <li>NotAvailable - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

396

|            |   |
|------------|---|
| Element    | <have:Spinal>   |
| Type       | xsd:boolean   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The availability of spinal surgical services.   |
| Comments   | <ol style="list-style-type: none"> <li>Sub-type element of spinal surgical services.</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>   |

397

|            |  |
|------------|--|
| Element    | <have:Vascular>  |
| Type       | xsd:boolean  |
| Usage      | <b>OPTIONAL</b>  |
| Definition | The availability of vascular surgical services.  |
| Comments   | <ol style="list-style-type: none"> <li>Sub-type element of vascular surgery services.</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>  |

398

|                   |  |
|-------------------|--|
| <b>Element</b>    | <have:Anesthesia>  |
| <b>Type</b>       | xsd:boolean  |
| <b>Usage</b>      | <b>OPTIONAL</b>  |
| <b>Definition</b> | The availability of anesthesia services.   |
| <b>Comments</b>   | <ol style="list-style-type: none"> <li>1. Sub-type element of anesthesia services.</li> <li>2. Values: <ul style="list-style-type: none"> <li>• “true” or “1” – This type of services is available.</li> <li>• “false” or “0” – This type of services is not available.</li> </ul> </li> </ol> |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/SurgeryIndicator/SurgerySubType</a>  |

399

|                     |   |
|---------------------|---|
| <b>Element</b>      | <have:TransportServicesIndicator>   |
| <b>Type</b>         | XML Structure   |
| <b>Usage</b>        | <b>OPTIONAL</b>   |
| <b>Definition</b>   | The container element for specifying the availability of Transport services.  |
| <b>Constraints</b>  | <ol style="list-style-type: none"> <li>1. Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>  |
| <b>Comments</b>     | <ol style="list-style-type: none"> <li>1. This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li>2. Organizations MAY either report the parent category or report the subcategories.</li> </ol> |
| <b>Sub-elements</b> | <p>Choices:</p> <ul style="list-style-type: none"> <li>• TransportServices</li> <li>• TransportServicesSubType</li> </ul>   |
| <b>Used In</b>      | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

400

|                |                          |
|----------------|--------------------------|
| <b>Element</b> | <have:TransportServices> |
| <b>Type</b>    | xsd:boolean              |
| <b>Usage</b>   | <b>OPTIONAL</b>          |

|            |   |
|------------|---|
| Definition | The availability of transport services.   |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TransportServicesIndicator</a>  |

401

|              |   |
|--------------|---|
| Element      | <have:TransportServicesSubType>   |
| Type         | xsd:boolean   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element for specifying the availability of Transport Services that are broken down into sub-types.  |
| Comments     | Values: <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Sub-elements | <ul style="list-style-type: none"> <li>• AirTransportServices</li> <li>• AmbulanceServices</li> </ul>   |
| Used In      | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TransportServicesIndicator</a>  |

402

|            |  |
|------------|--|
| Element    | <have:AirTransportServices>  |
| Type       | xsd:boolean  |
| Usage      | <b>OPTIONAL</b>  |
| Definition | The availability of air-transport services.  |
| Comments   | <ol style="list-style-type: none"> <li>1. Sub-element of transport services.</li> <li>2. Values: <ul style="list-style-type: none"> <li>• "true" or "1" - This type of services is available.</li> <li>• "false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TransportServicesIndicator/TransportServicesSubType</a>  |

403

|                |   |
|----------------|---|
| <b>Element</b> | <have:AmbulanceServices>  |
| Type           | xsd:boolean   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The availability of transport services.   |
| Comments       | <ol style="list-style-type: none"> <li>Sub-element of Transport Services</li> <li>Values: <ul style="list-style-type: none"> <li>"true" or "1" - This type of services is available.</li> <li>"false" or "0" - This type of services is not available.</li> </ul> </li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TransportServicesIndicator/TransportServicesSubType</a>   |

404

|                |   |
|----------------|---|
| <b>Element</b> | <have:TraumaCenterServicesIndicator>  |
| Type           | XML Structure   |
| Usage          | <b>CONDITIONAL</b> ; MUST be used once, if any sub-elements are used  |
| Definition     | The container element for specifying the availability of Trauma center services.  |
| Constraints    | <ol style="list-style-type: none"> <li>Either one – the parent category or the subcategories - MUST be used. Both MUST not be used together.</li> </ol>   |
| Comments       | <ol style="list-style-type: none"> <li>This service capability is broken down into the below subcategories. This is to allow Organizations to designate subcategories, if available.</li> <li>Organizations MAY either report the parent category or report the subcategories.</li> </ol> |
| Sub-elements   | <p>Choices:</p> <ul style="list-style-type: none"> <li>TraumaCenterServices</li> <li>TraumaCenterServicesLevel</li> </ul>   |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>   |

405

|                |                             |
|----------------|-----------------------------|
| <b>Element</b> | <have:TraumaCenterServices> |
|----------------|-----------------------------|

|            |  |
|------------|--|
| Type       | xsd:boolean  |
| Usage      | <b>OPTIONAL</b>  |
| Definition | The availability of trauma center services.  |
| Comments   | <p>Values:</p> <ol style="list-style-type: none"> <li>1. "true" or "1" - This type of services is available.</li> <li>2. "false" or "0" - This type of services is not available.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TraumaCenterServicesIndicator</a>  |

406

|                |   |
|----------------|---|
| <b>Element</b> | <have:TraumaCenterServicesLevel>  |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The service level of the trauma center.   |
| Comments       | <ol style="list-style-type: none"> <li>1. Values: <ul style="list-style-type: none"> <li>• Level1</li> <li>• Level2</li> <li>• Level3</li> <li>• Level4</li> </ul> </li> <li>2. For definitions please refer to the American College of Surgeons - <a href="http://www.facs.org/trauma/hospitallevels.pdf">http://www.facs.org/trauma/hospitallevels.pdf</a></li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/ServiceCoverageStatus/TraumaCenterServicesIndicator</a>   |

407 **3.2.6 HOSPITAL FACILITY STATUS**

408

|                     |  |
|---------------------|--|
| <b>Element</b>      | <have:HospitalFacilityStatus>  |
| <b>Type</b>         | XML Structure  |
| <b>Usage</b>        | <b>OPTIONAL</b>  |
| <b>Definition</b>   | The container of all of the elements related to the status of the facility. The elements in <FacilityStatus> provide a general status of the facility.   |
| <b>Sub-elements</b> | <ul style="list-style-type: none"> <li>• <a href="#">HospitalEOCStatus</a></li> <li>• <a href="#">HospitalEOCPlan</a></li> <li>• <a href="#">ClinicalStatus</a></li> <li>• <a href="#">DeconCapacity</a></li> <li>• <a href="#">MorgueCapacity</a></li> <li>• <a href="#">FacilityStatus</a></li> <li>• <a href="#">SecurityStatus</a></li> <li>• <a href="#">Activity24Hr</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| <b>Used In</b>      | <a href="#">HospitalStatus/Hospital</a>  |

409

|                   |  |
|-------------------|--|
| <b>Element</b>    | <have:HospitalEOCStatus>   |
| <b>Type</b>       | xsd:string with restrictions   |
| <b>Usage</b>      | <b>OPTIONAL</b>  |
| <b>Definition</b> | Whether the Emergency Operations Center (EOC) is currently operating.  |
| <b>Comments</b>   | <ol style="list-style-type: none"> <li>1. Values: <ul style="list-style-type: none"> <li>• Active – Indicates that the EOC has been activated. An activated EOC is fully staffed and operational.</li> <li>• Inactive – Indicates that the EOC is not activated.</li> </ul> </li> <li>2. Default Value: Inactive</li> </ol> <p>Note: An EOC is a location that is activated in a disaster or emergency from which the overall command, control, communications and coordination are conducted.</p> |

|         |  |
|---------|--|
|         | Note: The EOC is typically activated in disasters or other special situations, and this term is NOT intended to indicate whether the clinical emergency department is open for patient care. |
| Used In | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>   |

410

|                |   |
|----------------|---|
| <b>Element</b> | <have:HospitalEOCPlan>  |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Whether the hospital has activated its Emergency Operations Plan (EOP)  |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Active</li> <li>2. Inactive</li> </ol> <p>Note: An EOC Plan documents operations during an emergency, including the process to activate or inactivate the EOC.</p> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>  |

411

|                |  |
|----------------|--|
| <b>Element</b> | <have:ClinicalStatus>  |
| Type           | xsd:string with restrictions   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The clinical status of the facility.   |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Normal - Hospital clinical resources are operating within normal conditions.</li> <li>2. Full - Hospital clinical resources are exceeded and acceptable care cannot be provided to additional patients. Diversion or community surge response is required.</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>   |

412

|                |                      |
|----------------|----------------------|
| <b>Element</b> | <have:DeconCapacity> |
|----------------|----------------------|

|              |  |
|--------------|--|
| Type         | xsd:string   |
| Usage        | <b>OPTIONAL</b>  |
| Definition   | The container element for Decon capacity.  |
| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">DeconCapacityStatus</a></li> <li>• <a href="#">AmbulatoryPatientsDeconCapacity</a></li> <li>• <a href="#">NonAmbulatoryPatientsDeconCapacity</a></li> </ul> |
| Used In      | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>   |

413

414

|                |  |
|----------------|--|
| <b>Element</b> | <have:DeconCapacityStatus>   |
| Type           | xsd:string with restrictions   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The capacity for chemical/biological/radiological patient decontamination.   |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Inactive - Not being used, but available if needed</li> <li>2. Open - In use and able to accept additional patients</li> <li>3. Full - In use at maximum capacity</li> <li>4. Exceeded - Needs exceed available capacity</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/DeconCapacity</a>   |

415

|                |  |
|----------------|--|
| <b>Element</b> | <have:AmbulatoryPatientsDeconCapacity>   |
| Type           | xsd:integer  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The number of ambulatory patients which can be decontaminated over time (typically an hour). |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/DeconCapacity</a>                 |

416

|                   |  |
|-------------------|--|
| <b>Element</b>    | <have:NonAmbulatoryPatientsDeconCapacity>  |
| <b>Type</b>       | xsd:integer  |
| <b>Usage</b>      | <b>OPTIONAL</b>  |
| <b>Definition</b> | The number of non-ambulatory patients which can be decontaminated over time (typically an hour). |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/DeconCapacity</a>                     |

417

|                     |   |
|---------------------|---|
| <b>Element</b>      | <have:MorgueCapacity>   |
| <b>Type</b>         | xsd:string  |
| <b>Usage</b>        | <b>OPTIONAL</b>   |
| <b>Definition</b>   | The status of the morgue capacity.  |
| <b>Sub-elements</b> | <ul style="list-style-type: none"> <li>• <a href="#">MorgueCapacityStatus</a></li> <li>• <a href="#">MorgueCapacityUnits</a></li> </ul> |
| <b>Used In</b>      | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/DeconCapacity</a>  |

418

|                   |   |
|-------------------|---|
| <b>Element</b>    | <have:MorgueCapacityStatus>   |
| <b>Type</b>       | xsd:string with restrictions  |
| <b>Usage</b>      | <b>OPTIONAL</b>   |
| <b>Definition</b> | The status of the morgue capacity.  |
| <b>Comments</b>   | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Open - Space is available</li> <li>2. Full - All normal space is in use</li> <li>3. Exceeded - Storage needs exceed available space</li> </ol> |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/MorgueCapacity</a>   |

419

|                |                            |
|----------------|----------------------------|
| <b>Element</b> | <have:MorgueCapacityUnits> |
|----------------|----------------------------|

|            |   |
|------------|---|
| Type       | xsd:integer   |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The number of vacant/available units to which victims can be immediately transported. |
| Used In    | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/MorgueCapacity</a>         |

420

|                |   |
|----------------|---|
| <b>Element</b> | <have:FacilityStatus>   |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The status of the facility.   |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Normal - No conditions exist that adversely affect the general operations of the facility.</li> <li>2. Compromised - General operations of the facility have been affected due to damage, operating on emergency backup systems, or facility contamination.</li> <li>3. Evacuating - Indicates that a hospital is in the process of a partial or full evacuation.</li> <li>4. Closed - Indicates that a hospital is no longer capable of providing services and only emergency services/restoration personnel may remain in the facility.</li> </ol> |
| Used In        | <del>HospitalStatus/Hospital/</del> <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>  |

421

|                |   |
|----------------|---|
| <b>Element</b> | <have:SecurityStatus>   |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The status of security procedures in the hospital.  |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Normal - The hospital is operating under routine security procedures.</li> <li>2. 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.</li> <li>3. RestrictedAccess - Based on security needs, the hospital has activated procedures to allow access to the facility through a reduced number of controlled</li> </ol> |

|         |   |
|---------|---|
|         | <p>entrances.</p> <ol style="list-style-type: none"> <li>4. Lockdown - Based on security needs, the hospital has activated procedures to control entry to the facility to authorized persons only.</li> <li>5. Quarantine - Based on a public health emergency, the entry and exit of the facility is controlled by public health officials.</li> </ol> |
| Used In | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>  |

422

|                |  |
|----------------|--|
| <b>Element</b> | <have:Activity24Hr>  |
| Type           | XML Structure  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The container element for reporting activities in the last 24 hours.   |
| Comments       | 1. The time is relative to the timestamp of the <LastUpdateTime> of the <Hospital> element.  |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">Admissions</a></li> <li>• <a href="#">Discharges</a></li> <li>• <a href="#">Deaths</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a>   |

423

|                |   |
|----------------|---|
| <b>Element</b> | <have:Admissions>   |
| Type           | xsd:integer   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The number of admissions in the last 24 hours.  |
| Comments       | 1. The time is relative to the timestamp of the <LastUpdateTime> of the <Hospital> element. |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/Activity24Hr</a>                 |

424

|                |                   |
|----------------|-------------------|
| <b>Element</b> | <have:Discharges> |
| Type           | xsd:integer       |

|            |   |
|------------|---|
| Usage      | <b>OPTIONAL</b>   |
| Definition | The number of discharges in the last 24 hours.  |
| Comments   | 1. The time is relative to the timestamp of the <LastUpdateTime> of the <Hospital> element. |
| Used In    | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/Activity24Hr</a>                 |

425

|                |   |
|----------------|---|
| <b>Element</b> | <have:Deaths>   |
| Type           | xsd:integer   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The number of deaths in the last 24 hours.  |
| Comments       | 1. The time is relative to the timestamp of the <LastUpdateTime> of the <Hospital> element. |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalFacilityStatus/Activity24Hr</a>                 |

426 **3.2.7 HOSPITAL RESOURCES STATUS**

427

|                |   |
|----------------|---|
| <b>Element</b> | <code>&lt;have:HospitalResourcesStatus&gt;</code>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container for all the elements related to the operations of the facility.   |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">Staffing</a></li> <li>• <a href="#">FacilityOperations</a></li> <li>• <a href="#">ClinicalOperations</a></li> <li>• <a href="#">ResourcesInformationText</a></li> <li>• <a href="#">CommentText</a></li> </ul> |
| Used In        | <a href="#">HospitalStatus/Hospital</a>   |

428

|                |   |
|----------------|---|
| <b>Element</b> | <code>&lt;have:Staffing&gt;</code>  |
| Type           | xsd:string with restrictions  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The status of general staffing in the organization.   |
| Comments       | <p>Values:</p> <ol style="list-style-type: none"> <li>1. Adequate – Meets the current needs.</li> <li>2. Insufficient – Current need is not being met and impacts the operations of the hospital.</li> </ol> <p>Note: Specific shortage in one or more departments should be noted in the comments.</p> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalResourcesStatus</a>   |

429

|                |  |
|----------------|--|
| <b>Element</b> | <code>&lt;have:FacilityOperations&gt;</code> |
| Type           | xsd:string with restrictions                 |

|            |  |
|------------|--|
| Usage      | <b>OPTIONAL</b>  |
| Definition | The status of supplies necessary for facility operations.  |
| Comments   | Values: <ol style="list-style-type: none"> <li>1. Adequate – Meets the current needs.</li> <li>2. Insufficient – Current needs are not being met.</li> </ol> |
| Used In    | <a href="#">HospitalStatus/Hospital/HospitalResourcesStatus</a>  |

430

|                |  |
|----------------|--|
| <b>Element</b> | <have:ClinicalOperations>  |
| Type           | xsd:string with restrictions   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The status of supplies necessary for clinical operations.  |
| Comments       | Values: <ol style="list-style-type: none"> <li>1. Adequate – Meets the current needs</li> <li>2. Insufficient – Current needs are not being met</li> </ol> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalResourcesStatus</a>  |

431

|                |  |
|----------------|--|
| <b>Element</b> | <have:ResourcesInformationText>  |
| Type           | xsd:string; May use multiple   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The type of resources and their status or count.   |
| Constraints    | <ol style="list-style-type: none"> <li>1. Multiple values are allowed and each resource type SHOULD be enclosed with a &lt;ResourcesInformationText&gt; element.</li> </ol>  |
| Comments       | <ol style="list-style-type: none"> <li>2. This is an open format text field.</li> </ol> <div style="background-color: #f0f0f0; padding: 5px; margin-top: 5px;"> <p>Ex:</p> <pre>&lt;have:ResourcesInformationText&gt; Ventilators - 40 are Available &lt;/have:ResourcesInformationText&gt; &lt;have:ResourcesInformationText&gt; Atropine - 20 Caches are Available &lt;/have:ResourcesInformationText&gt;</pre> </div> |
| Used In        | <a href="#">HospitalStatus/Hospital/HospitalResourcesStatus</a>  |

432 **3.2.8 SUPPORTING ELEMENTS AND TYPES (Normative)**

433

434 **3.2.8.1 Elements**

435

|                   |   |
|-------------------|---|
| <b>Element</b>    | <have:CommentText>  |
| <b>Type</b>       | xsd:string  |
| <b>Usage</b>      | <b>OPTIONAL</b> , <u>May use Multiple</u>   |
| <b>Definition</b> | Open Comments field. Unless otherwise specified, the <CommentText> field pertains to the element preceding it.  |
| <b>Comments</b>   | <p>1. There are no normative requirements imposed on the content of this element. This element may contain any text that the creator of the document considers useful, and such text will be understood as referring to the element that precedes it, unless it explicitly references a different element in the EDXL-HAVE document.</p> <p><b>Ex:</b></p> <pre>&lt;have:DeconCapacity&gt; Full &lt;have:DeconCapacity&gt; &lt;have:CommentText&gt; We expect the capacity to be exceeded shortly &lt;have:CommentText&gt;</pre> <p><b>Note:</b> In the above example, the &lt;CommentText&gt; pertains to the &lt;DeconCapacity&gt; element.</p> |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital//Organization</a><br><a href="#">HospitalStatus/Hospital/HospitalBedCapacityStatus/BedCapacity</a><br><a href="#">HospitalStatus/Hospital/HospitalFacilityStatus</a><br><a href="#">Hospital/HospitalResourcesStatus</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus</a><br><a href="#">HospitalStatus/Hospital/ServiceCoverageStatus</a>  |

436

437

|                    |  |
|--------------------|--|
| <b>Element</b>     | <have:LastUpdateTime>  |
| <b>Type</b>        | xsd:datetime   |
| <b>Usage</b>       | <b>REQUIRED</b>  |
| <b>Definition</b>  | The last time the information was updated.   |
| <b>Constraints</b> | Each <u>&lt;HHospital&gt;</u> element <b>MUST</b> have <u>one and only one a</u> -<LastUpdateTime> |

|         |   |
|---------|---|
| Used In | <a href="#">HospitalStatus/Hospital</a> |
|---------|---|

438

439

### 3.2.8.2 TYPES

440

|                              |  |
|------------------------------|--|
| <b>Type Name (normative)</b> | TriageCount  |
| Definition                   | The type of a container element for the number of each triage patient type the overall hospital currently has or that it can accept.                         |
| Sub-elements                 | <ul style="list-style-type: none"> <li>• <a href="#">TriageCodeListURN</a></li> <li>• <a href="#">TriageCode</a></li> </ul>                                  |
| Used In                      | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCensus</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSCapacity</a> |

441

442

|                              |   |
|------------------------------|---|
| <b>Type Name (normative)</b> | Offload   |
| Definition                   | 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.          |
| Sub-elements                 | <ul style="list-style-type: none"> <li>• <a href="#">EMSOffloadStatus</a></li> <li>• <a href="#">EMSOffloadMinutes</a></li> </ul>   |
| Used In                      | <a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAmbulanceStatus</a><br><a href="#">HospitalStatus/Hospital/EmergencyDepartmentStatus/EMSAirTransportStatus</a> |

443

444

### 3.2.8.3 geo-oasis Elements

445

|                |   |
|----------------|---|
| <b>Element</b> | <gml:Point>   |
| Type           | geo-oasis:SimplePositionType  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Point property element containing a pair of coordinates representing latitude then longitude in the World Geodetic System 1984 [WGS84] coordinate reference system. |

|          |   |
|----------|---|
| Comments | <p>1. The geo-coded address of the civil location.</p> <pre>&lt;OrganizationGeoLocation&gt; &lt;gml:Point&gt; &lt;gml: pos&gt;45.256 -71.92&lt;/gml: pos&gt; &lt;/gml:Point&gt; &lt;/OrganizationGeoLocation&gt;</pre> <p>Note: See Appendix D for note on OASIS GML profile.</p> |
| Used In  | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganizationGeoLocation</a>  |

446

447

448 **3.2.8.4 CIQ Elements**

449

450

|              |   |
|--------------|---|
| Element      | <b>&lt;OrganisationName&gt;</b>   |
| Type         | xnl:OrganistionNameType   |
| Usage        | <b>CONDITIONAL</b>  |
| Definition   | The name of the Organization. Please refer to <a href="#">[OASIS CIQ]</a>   |
| Constraints  | 1. Either the <OrganisationName> or the <OrganistionID> MUST be present.  |
| Sub-elements | <ul style="list-style-type: none"> <li><a href="#">NameElement</a></li> <li><a href="#">SubDivisionName</a></li> </ul>  |
| Attribute    | <ul style="list-style-type: none"> <li>OrganisationID: A unique identifier for the Organization. Please refer to <a href="#">[OASIS CIQ]</a></li> </ul> <p>1. For the purposes of this document, &lt;OrganisationID&gt; is used to specify the identifier for the healthcare Organization.</p>  |
| Attribute    | <ul style="list-style-type: none"> <li>OrganisationIDType: The name of the provider that has provided the identification scheme. This could also be the name a particular identification list. Please refer to <a href="#">[OASIS CIQ]</a></li> </ul> <p>1. There are different identification schemes that provide unique identifiers to healthcare Organizations. This element can be used to provide a reference to the classification/identification scheme that is being used.</p> <p>Example: American Hospital Association</p> |
| Constraints  | 1. If <OrganisationID> is used, <OrganisationIDType> MUST be used.  |

|         |  |
|---------|--|
| Used In | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation</a> |
|---------|--|

451

|                |   |
|----------------|---|
| <b>Element</b> | <NameElement>   |
| Type           | xsd:string  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | Name of the Organization. Please refer to <a href="#">[OASIS CIQ]</a>                         |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganisationName</a> |

452

|                |   |
|----------------|---|
| <b>Element</b> | <SubDivisionName>   |
| Type           | xsd:string  |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The name of the sub division Organization. Please refer to <a href="#">[OASIS CIQ]</a>  |
| Constraints    | 1. <SubDivisionName> SHOULD be used if the reporting Organization has a parent Organization.  |
| Comments       | <p>1. If the &lt;SubDivisionName&gt; is used, the status being reported is that of the sub division Organization.</p> <p>Example:</p> <pre>&lt;xmlns:OrganisationName&gt;   &lt;NameElement&gt; ABC Hospital &lt;/NameElement&gt;   &lt;SubDivisionName&gt; ABC Hospital at Location A &lt;/SubDivisionName&gt; &lt;/xmlns:OrganisationName&gt;</pre> |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganisationName</a>   |

453

|                |   |
|----------------|---|
| <b>Element</b> | <OrganisationInfo>  |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | General details about the Organization. Please refer to <a href="#">[OASIS CIQ]</a> |

|              |  |
|--------------|--|
| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">Type</a></li> <li>• <a href="#">OperatingHourStartTime</a></li> <li>• <a href="#">OperatingHourEndTime</a></li> </ul> |
| Used In      | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation</a>   |

454

|                |  |
|----------------|--|
| <b>Element</b> | <Type>   |
| Type           | xsd:string   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | Type of Organization. For purposes of EDXL HAVE standard, this could be hospital, nursing center, trauma center etc. Please refer to <a href="#">[OASIS CIQ]</a> |
| Comments       | <p>1. For purposes of EDXL HAVE standard, this could be hospital, nursing center, trauma center etc.</p> <p>Example: Hospital, Nursing Center etc.</p>           |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganisationInfo</a>  |

455

|                |  |
|----------------|--|
| <b>Element</b> | <OperatingHourStartTime>   |
| Type           | xsd:time   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | Operating hour start time for the Organization ex: 09:00:00. Please refer to <a href="#">[OASIS CIQ]</a> |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganisationInfo</a>            |

456

|                |  |
|----------------|--|
| <b>Element</b> | <OperatingHourEndTime>   |
| Type           | xsd:time   |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | Operating hour end time for the Organization ex: 17:00:00. Please refer to <a href="#">[OASIS CIQ]</a> |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/OrganisationInfo</a>          |

457

|                |   |
|----------------|---|
| <b>Element</b> | <Addresses>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The container element for the specifying the address of the Organization. Please refer to <a href="#">[OASIS CIQ]</a> |
| Sub-elements   | <ul style="list-style-type: none"> <li>• HospitalStatus/Hospital/Address</li> </ul>                                   |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation</a>  |

458

|                |   |
|----------------|---|
| <b>Element</b> | <Address>   |
| Type           | xAL:AddressType   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | One or more addresses of the Organization. Please refer to <a href="#">[OASIS CIQ]</a>  |
| Constraints    | <ol style="list-style-type: none"> <li>1. The geographic coordinates specified in &lt;point&gt; MUST match the address.</li> </ol>  |
| Comments       | <ol style="list-style-type: none"> <li>1. For the purposes of the EDXL-HAVE specification, the below elements of the xAL: AddressType satisfy the usage requirements. .</li> <li>2. Use of the other sub elements of &lt;Address&gt; element other than the ones listed below is left to the choice of implementers, but care should be exercised as it can result in interoperability issues.</li> </ol> |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">FreeTextAddress</a></li> <li>• <a href="#">Country</a></li> <li>• <a href="#">AdministrativeArea</a></li> <li>• <a href="#">PostCode</a></li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses</a>  |

459

|                |                   |
|----------------|-------------------|
| <b>Element</b> | <FreeTextAddress> |
| Type           | XML Structure     |

|              |   |
|--------------|---|
| Usage        | <b>OPTIONAL</b>   |
| Definition   | The container element for specifying the address in free text form. Please refer to <a href="#">[OASIS CIQ]</a> |
| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">AddressLine</a></li> </ul>                                 |
| Used In      | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address</a>                  |

460

|                |   |
|----------------|---|
| <b>Element</b> | <AddressLine>   |
| Type           | xsd:string  |
| Usage          | <b>OPTIONAL; Multiple</b>   |
| Definition     | One of the lines of the address of the Organization. If the address of the Organization consists of a single line, this element contains the entire address. If the address consists of multiple lines, this element contains one of those lines. Please refer to <a href="#">[OASIS CIQ]</a> |
| Comments       | <ol style="list-style-type: none"> <li>1. Free format address representation. An address can have more than one line. The order of the &lt;xAL: AddressLine&gt; elements needs to be preserved.</li> </ol>  |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address/FreeTextAddress</a>  |

461

|                |  |
|----------------|--|
| <b>Element</b> | <Country>  |
| Type           | xAL:CountryType  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | The details of the country. Please refer to <a href="#">[OASIS CIQ]</a>                        |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">NameElement</a></li> </ul>                |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address</a> |

462

|                |                      |
|----------------|----------------------|
| <b>Element</b> | <AdministrativeArea> |
|----------------|----------------------|

|              |   |
|--------------|---|
| Type         | XML Structure   |
| Usage        | <b>OPTIONAL</b>   |
| Definition   | Details of the top level area division in the country. Ex: State, District, Province etc. Please refer to <a href="#">[OASIS CIQ]</a> . |
| Sub-elements | <ul style="list-style-type: none"> <li>• <a href="#">NameElement</a></li> <li>• <a href="#">SubAdministrativeArea</a></li> </ul>        |
| Used In      | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address</a>  |

463

|                |   |
|----------------|---|
| <b>Element</b> | <SubAdministrativeArea>   |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | The next level of sub-division of the area. Ex: county etc. Please refer to <a href="#">[OASIS CIQ]</a> .         |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">NameElement</a></li> </ul>                                   |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address/AdministrativeArea</a> |

464

|                |   |
|----------------|---|
| <b>Element</b> | <PostCode>  |
| Type           | XML Structure   |
| Usage          | <b>OPTIONAL</b>   |
| Definition     | A container for a single free text or structured post code. Please refer to <a href="#">[OASIS CIQ]</a> |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">Identifier</a></li> </ul>                          |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address</a>          |

465

|                |              |
|----------------|--------------|
| <b>Element</b> | <Identifier> |
|----------------|--------------|

|            |   |
|------------|---|
| Type       | xAL:IdentifierType  |
| Usage      | <b>OPTIONAL</b>   |
| Definition | The post code is formatted to country-specific rules. Ex: SW3 0A8-1A, 600074, 2067 etc. Please refer to <a href="#">[OASIS CIQ]</a> |
| Used In    | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/Addresses/Address/PostCode</a>                             |

466

467 Example 1:

```

468 <a:Address>
469   <a:FreeTextAddress>
470     <a:AddressLine>P O Box 455</a:AddressLine>
471     <a:AddressLine >Billerica, MA 01821</a:AddressLine >
472   </a:FreeTextAddress>
473 </a:Address>

```

474

475 Example 2:

```

476 <a:Address>
477   <a: Country>USA</Country>
478   <a:AdministrativeArea>
479     <a:NameElement>MA</a:NameElement>
480   </a:AdministrativeArea>
481   <a:SubAdministrativeArea>
482     <a:NameElement>Billerica</a:NameElement>
483   </a:SubAdministrativeArea>
484   <PostCode>01821</PostCode>
485 </a:Address>

```

486

487

|                |  |
|----------------|--|
| <b>Element</b> | <ContactNumbers>   |
| Type           | XML Structure  |
| Usage          | <b>OPTIONAL</b>  |
| Definition     | All kinds of communication lines used for contact purposes. Ex.: phone, fax, mobile, pager, etc. Please refer to <a href="#">[OASIS CIQ]</a> |
| Sub-elements   | <ul style="list-style-type: none"> <li>• <a href="#">ContactNumber</a></li> </ul>  |
| Used In        | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation</a>   |

488

|                   |  |
|-------------------|--|
| <b>Element</b>    | <ContactNumber>  |
| <b>Type</b>       | XML Structure  |
| <b>Usage</b>      | <b>OPTIONAL</b>  |
| <b>Definition</b> | Universal telecommunication number structure. Please refer to [OASIS CIQ]  |
| <b>Comments</b>   | 1. The attributes of this element carry important information about the contact number (see [OASIS CIQ], Sec 6.2.4).               |
| <b>Attributes</b> | <ul style="list-style-type: none"> <li>• <a href="#">CommunicationMediaType</a></li> <li>• <a href="#">ContactHours</a></li> </ul> |
| <b>Used In</b>    | <a href="#">HospitalStatus/Hospital/Organization/OrganizationInformation/ContactNumbers</a>  |

489

490 Example – Contact Phone Number

491

```

492 <p:ContactNumber p:CommunicationMediaType="Telephone" p:ContactHours="9:00AM -
493 5:00PM">
494   <p:ContactNumberElement
495   p:ElementType="CountryCode">61</p:ContactNumberElement>
496   <p:ContactNumberElement p:ElementType="AreaCode">2</p:ContactNumberElement>
497   <p:ContactNumberElement
498   p:ElementType="LocalNumber">94338765</p:ContactNumberElement>
499 </p:ContactNumber>

```

500

501

502

503

504

505

506

507

---

## 508 4 CONFORMANCE

509

### 510 4.1 CONFORMANCE TARGETS

511

512 The two following conformance targets are defined in order to support the specification of conformance  
513 to this standard:

514

515 a) EDXL-HAVE Report;

516

517 b) EDXL-HAVE Report Producer.

518

519 An EDXL-HAVE Report is an XML 1.0 document whose syntax and semantics are specified in this  
520 standard. An EDXL-HAVE Report Producer is a software entity that produces EDXL-HAVE reports.

521

522 NOTE – There is no conformance target corresponding to the consumers of EDXL-HAVE  
523 reports because this standard does not specify any requirements that apply specifically to  
524 them.

525

526

### 527 4.2 CONFORMANCE AS AN EDXL-HAVE REPORT

528

529 An XML 1.0 document is a conforming EDXL-HAVE Report if and only if:

530

531 a) it is valid according to the schema located at [http://docs.oasis-open.org/emergency/edxl-  
have/v1.0/edxl-have.xsd](http://docs.oasis-open.org/emergency/edxl-<br/>532 have/v1.0/edxl-have.xsd); and

533

534 b) the content of its elements and the values of its attributes meet all the additional mandatory  
535 requirements specified in section 3.

536

### 537 4.3 CONFORMANCE AS AN EDXL-HAVE REPORT PRODUCER

538

539 A software entity is a conforming EDXL-HAVE Report Producer if and only if:

540

541 it is constructed in such a way that any XML document produced by it and present in a place in which  
542 a conforming EDXL-HAVE Report is expected (based on contextual information) is indeed a  
543 conforming EDXL-HAVE Report according to this standard.

544

545 The condition in (1) above can be satisfied in many different ways. Here are some examples of possible  
546 scenarios:

- 547 • a standard protocol (say, EDXL-DE) transfers messages carrying EDXL-HAVE reports; a client  
548 has sent a request for an EDXL-HAVE report to a server which claims to be a conforming EDXL-  
549 HAVE Report Producer, and has received a response which is therefore expected to carry a  
550 conforming EDXL-HAVE Report;
- 551 • a local test environment has been set up, and the application under test (which claims to be a  
552 conforming EDXL-HAVE Report Producer) has the ability to produce a EDXL-HAVE report and  
553 write it to a file in a directory in response to a request coming from the testing tool; the testing tool  
554 has sent many requests to the application under test and is now verifying all the files present in  
555 the directory, which is expected to contain only conforming EDXL-HAVE Reports;
- 556 • an EDXL-HAVE Report is attached to an email message which, according to a prior agreement  
557 between sender and recipients, is expected to carry a conforming EDXL-HAVE Report as an  
558 attachment;
- 559 • an EDXL-HAVE Report has been published at a location on the World Wide Web from where it  
560 can be retrieved by an authorized person by using the HTTP protocol, and the producer has  
561 created the expectation that that location will contain a conforming EDXL-HAVE Report.

562

## A. EDXL-HAVE EXAMPLE (NON-NORMATIVE)

563

**Note:** The example shown below is for informative purposes only and is a snippet of the schema – to illustrate the content. This example will not validate and an actual XML sample will be contained in EDXL-DE or similar routing block structure.

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```
<?xml version="1.0" encoding="UTF-8"?>
<have:HospitalStatus
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0 edxl-
have_cs01.xsd" xmlns="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0"
  xmlns:n3="http://www.georss.org/georss" xmlns:gml="http://www.opengis.net/gml"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3">
  <have:Hospital>
    <have:Organization>
      <have:OrganizationInformation>
        <xnl:OrganisationName>
          <xnl:NameElement>ABC Hospital</xnl:NameElement>
        </xnl:OrganisationName>
        <xpil:OrganisationInfo xpil:Type="Hospital"
          xpil:OperatingHourStartTime="09:00:00.0Z"
          xpil:OperatingHourEndTime="18:00:00.0Z"/>
        <xpil:Addresses>
          <xpil:Address>
            <xal:FreeTextAddress>
              <xal:AddressLine>
                P O Box 455, Billerica, MA 0182, USA
              </xal:AddressLine>
            </xal:FreeTextAddress>
          </xpil:Address>
        </xpil:Addresses>
      </have:OrganizationInformation>
      <OrganizationGeoLocation>
        <gml:Point>
          <gml:pos>3.14159265358979E0</gml:pos>
        </gml:Point>
      </have:OrganizationGeoLocation>
    </have:Organization>
    <have:EmergencyDepartmentStatus>
      <have:EMSTraffic>
        <have:EMSTrafficStatus>Normal</have:EMSTrafficStatus>
      </have:EMSTraffic>
      <have:EMSCapacity>
        <have:TriageCount>
          <have:TriageCodeListURN> oasis:names:tc:emergency:have:1.0:triagecolorcode
        </have:TriageCodeListURN>
        <have:TriageCode>
          <have:TriageCodeValue>Red</have:TriageCodeValue>
          <have:TriageCountQuantity>20</have:TriageCountQuantity>
        </have:TriageCode>
        <have:TriageCode>
          <have:TriageCodeValue>Yellow</have:TriageCodeValue>
          <have:TriageCountQuantity>30</have:TriageCountQuantity>
        </have:TriageCode>
      </have:EMSCapacity>
    </have:EmergencyDepartmentStatus>
  </have:Hospital>
</have:HospitalStatus>
```

```

620     </have:TriageCode>
621     <have:TriageCode>
622         <have:TriageCodeValue>Green</have:TriageCodeValue>
623         <have:TriageCountQuantity>40</have:TriageCountQuantity>
624     </have:TriageCode>
625     <have:TriageCode>
626         <have:TriageCodeValue>Black</have:TriageCodeValue>
627         <have:TriageCountQuantity>10</have:TriageCountQuantity>
628     </have:TriageCode>
629 </have:TriageCount></have:EMSCapacity>
630 <have:EMSAmbulanceStatus>
631     <have:Offload>
632         <have:EMSOffloadStatus>Normal</have:EMSOffloadStatus>
633         <have:EMSOffloadMinutes>20</have:EMSOffloadMinutes>
634     </have:Offload>
635 </have:EMSAmbulanceStatus>
636 </have:EmergencyDepartmentStatus>
637
638 <have:HospitalBedCapacityStatus>
639     <have:BedCapacity>
640         <have:BedType>AdultICU</have:BedType>
641         <have:Capacity>
642             <have:CapacityStatus>Vacant/Available</have:CapacityStatus>
643             <have:AvailableCount>40</have:AvailableCount>
644             <have:BaselineCount>60</have:BaselineCount>
645         </have:Capacity>
646     </have:BedCapacity>
647
648     <have:BedCapacity>
649         <have:BedType>Burn</have:BedType>
650         <have:Capacity>
651             <have:CapacityStatus>Vacant/Available</have:CapacityStatus>
652             <have:AvailableCount>30</have:AvailableCount>
653             <have:BaselineCount>50</have:BaselineCount>
654         </have:Capacity>
655     </have:BedCapacity>
656
657     <have:BedCapacity>
658         <have:BedType>MedicalSurgical</have:BedType>
659         <have:Capacity>
660             <have:CapacityStatus>Vacant/Available</have:CapacityStatus>
661             <have:AvailableCount>20</have:AvailableCount>
662             <have:BaselineCount>30</have:BaselineCount>
663         </have:Capacity>
664     </have:BedCapacity>
665 </have:HospitalBedCapacityStatus>
666
667
668 <have:ServiceCoverageStatus>
669     <have:Burn>true</have:Burn>
670
671     <have:CardiologyIndicator>
672         <have:Cardiology>true</have:Cardiology>
673     </have:CardiologyIndicator>
674
675     <have:Dialysis>true</have:Dialysis>
676     <have:EmergencyDepartment>true</have:EmergencyDepartment>
677     <have:HyperbaricChamber>false</have:HyperbaricChamber>
678     <have:InfectiousDisease>false</have:InfectiousDisease>
679     <have:Neonatology>true</have:Neonatology>
680
681     <have:NeurologyIndicator>
682         <have:Neurology>true</have:Neurology>
683     </have:NeurologyIndicator>

```

```

684 <have:OBGYNIndicator>
685   <have:OBGYN>true</have:OBGYN>
686 </have:OBGYNIndicator>
687
688 <have:Ophthalmology>true</have:Ophthalmology>
689 <have:Orthopedic>true</have:Orthopedic>
690 <have:Pediatrics>text</have:Pediatrics>
691
692 <have:PsychiatricIndicator>
693   <have:Psychiatric>true</have:Psychiatric>
694 </have:PsychiatricIndicator>
695
696 <have:SurgeryIndicator>
697   <have:SurgerySubType>
698     <have:AdultGeneralSugery>true</have:AdultGeneralSugery>
699     <have:CardioThoracic>true</have:CardioThoracic>
700   </have:SurgerySubType>
701 </have:SurgeryIndicator>
702
703 <have:TransportServicesIndicator>
704   <have:TransportServices>true</have:TransportServices>
705 </have:TransportServicesIndicator>
706
707 <have:TraumaCenterServicesIndicator>
708   <have:TraumaCenterServices>true</have:TraumaCenterServices>
709   <have:TraumaCenterServicesLevel>Level2</have:TraumaCenterServicesLevel>
710 </have:TraumaCenterServicesIndicator>
711 </have:ServiceCoverageStatus>
712
713
714 <have:HospitalFacilityStatus>
715   <have:ClinicalStatus>Normal</have:ClinicalStatus>
716   <have:FacilityStatus>Normal</have:FacilityStatus>
717   <have:SecurityStatus>Normal</have:SecurityStatus>
718 </have:HospitalFacilityStatus>
719
720
721
722 <have:HospitalResourcesStatus>
723   <have:Staffing>Adequate</have:Staffing>
724   <have:FacilityOperations>Adequate</have:FacilityOperations>
725   <have:ClinicalOperations>Adequate</have:ClinicalOperations>
726   <have:ResourcesInformationText>
727     20 ventilators are available
728   </have:ResourcesInformationText>
729   <have:ResourcesInformationText>
730     Atropine - 20 caches are available
731   </have:ResourcesInformationText>
732 </have:HospitalResourcesStatus>
733
734
735 <have:LastUpdateTime>2001-12-17T09:30:47.0Z</have:LastUpdateTime>
736
737
738 </have:Hospital>
739
740
741 </have:HospitalStatus>
742

```

743 **B. BED TYPES AND CAPACITY - DEFINITIONS (NON-**  
744 **NORMATIVE)**

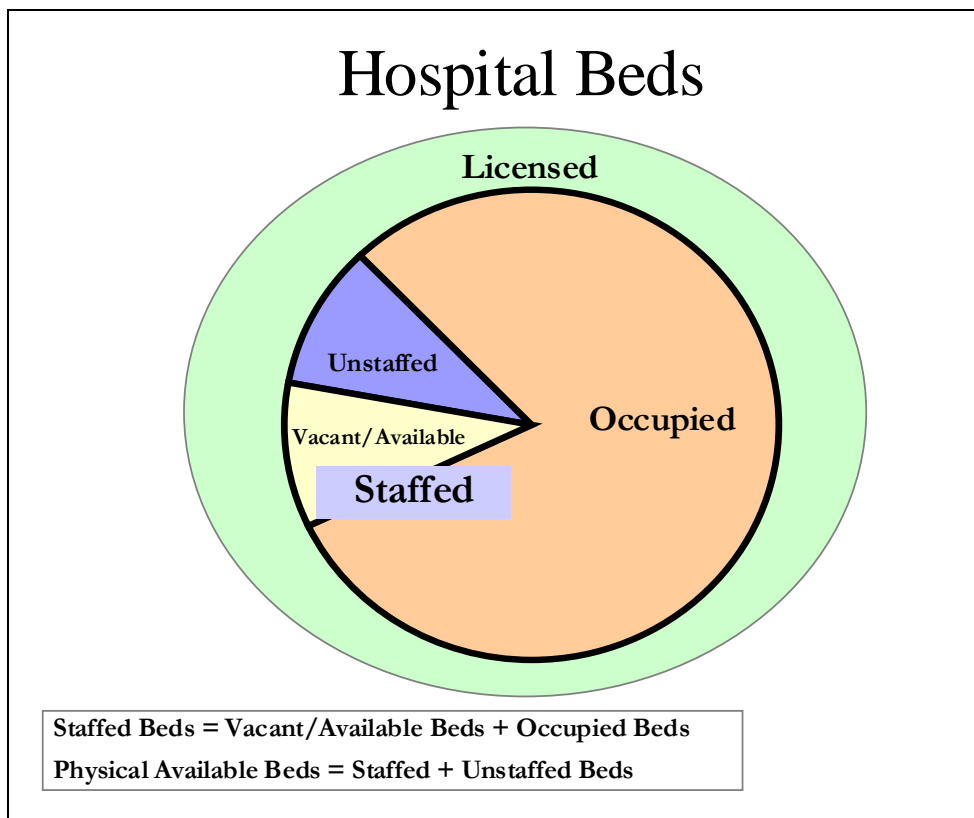
745 *Note: The definitions are used from the HAvBED report [HAvBED Report].*

746 These standardized definitions were vetted by a working group assembled by Denver Health with  
747 members from Federal and State governments, hospitals around the nation, and the private sector in the  
748 United States of America.

749 **Hospital Bed Definitions**

750  
751 Vacant/Available Beds refers to beds that are vacant and to which patients can be immediately  
752 transported. These must include supporting space, equipment, medical material, ancillary and support  
753 services and staff to operate under normal circumstances. These beds are licensed, physically available  
754 and have staff on hand to attend to the patient who occupies the bed.

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756



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764

A description of the types of beds includes the following:

- **Adult Intensive Care (ICU):** beds that can support critically ill/injured patients, including ventilator support

- 765
- 766 • **Medical/Surgical:** also thought of as “Ward” beds
- 767
- 768 • **Burn:** thought of as Burn ICU beds, either approved by the American Burn Association or
- 769 self-designated. (These beds are NOT to be included in other ICU bed counts.)
- 770
- 771 • **Pediatric ICU:** as for Adult ICU, but for patients 17 years and younger
- 772
- 773 • **Pediatrics:** “Ward Medical/Surgical” beds for patients 17 and younger
- 774
- 775 • **Psychiatric:** “ward” beds on a closed/locked psychiatric unit or ward beds where a patient
- 776 will be attended by a sitter.
- 777
- 778 • **Negative Pressure/Isolation:** - Beds provided with negative airflow, providing respiratory
- 779 isolation. NOTE: This value may represent available beds included in the counts of other
- 780 types.
- 781
- 782 • **Operating Rooms:** – An operating room that is equipped and staffed and could be made
- 783 available for patient care in a short period of time.
- 784
- 785
- 786

## 787 **Bed Availability Definitions**

788

789 The bed availability estimates are defined as below:

- 790
- 791
- 792 • **24 hr Beds Available:** This value represents an informed estimate as to how many vacant
- 793 (staffed, unoccupied) beds for each bed type above the current number that could be made
- 794 available within 24 hours. This would include created institutional surge beds as well as beds
- 795 made available by discharging/transferring patients.
- 796
- 797 • **72 hr Beds Available:** This value represents an informed estimate as to how many vacant
- 798 (staffed, unoccupied) beds for each bed type above the current number that could be made
- 799 available within 72 hours. This would include created institutional surge beds as well as beds
- 800 made available by discharging/transferring patients.
- 801
- 802

---

803 **C. OASIS CUSTOMER INFORMATION QUALITY (CIQ)**  
804 **(NON-NORMATIVE)**

805 **CIQ Overview**  
806

807 The objective of the OASIS CIQ TC is to deliver a set of XML Specifications for defining, representing,  
808 interoperating and managing party information (e.g. name, address, party specific information including  
809 party relationships) that are truly open, vendor neutral, industry and application independent, and  
810 importantly "Global" (ability to represent international data formats such as different types of party names  
811 and addresses used in 241+ countries).

812  
813 The CIQ TC's XML Name, Address and Party languages (version 3.0) define universal structures for  
814 name, address entities, party, and party relationship entities. It consists of the following components:

815 Note: This section only provides a brief overview and includes a subset – that is relevant  
816 to EDXL-HAVE- of the CIQ specification. The purpose is to provide an overview – users  
817 are encouraged to look at the OASIS CIQ TC website for complete information -  
818 [http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=ciq](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=ciq)  
819

| Name   | Description  |
|--|--|
| <b>xNL</b><br>extensible Name Language               | xNL defines an XML format to represent party name information. A party name could be a "Person" or an "Organization". An "Organization" could be educational institutions like school, university, college, etc, clubs, associations, industry groups, not-for-profit bodies, consortiums, user groups, etc. |
| <b>xAL</b><br>extensible Address Language            | xAL defines an XML format to represent address data. It includes: hospitals, airports, businesses, educational institutions etc.   |
| <b>xPIL</b><br>extensible Party Information Language | xPIL defines XML specifications to represent party centric data. Party centric data includes: <ul style="list-style-type: none"><li>• Address, E-mail address, URL, Contact numbers (Mobile, Pager, Fax, Landline, etc)</li></ul>  |

820  
821 **CIQ Usage in EDXL-HAVE**  
822  
823

824 EDXL HAVE uses Party information (xPIL) in the CIQ specifications for its naming and address  
825 requirements. For the purposes of HAVE, the naming and location elements (street address) elements  
826 are used. The use of other elements is left to implementation choices.

827

---

## D. ACKNOWLEDGEMENTS

828 The following individuals have participated in the creation of this specification and are gratefully  
829 acknowledged:

830

### 831 **Participants**

832

- 833 • Alessandro Triglia, OSS Nokalva
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- 857 • Werner Joerg, IEM
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## E. REVISION HISTORY

| Revision                              | Date             | Editor             | Changes Made   |
|---------------------------------------|------------------|--------------------|--|
| Public Review Version 05              | 04 March 2008    | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Changed document status to 'Public Review Draft 05'</li> </ul>  |
| Public Review Version 4 Revision 01   | 29 February 2008 | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Deleted non-UTF character (‘) in schema – changed from 'Available' to Available in schema documentation.</li> <li>Corrected typo in schema – changed <i>AmubulatoryPatientsDeconCapacity</i> to <i>AmbulatoryPatientsDeconCapacity</i></li> </ul>   |
| Public Review Version 4               | 08 February 2008 | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Changed document name and status to 'Public Review Draft 04'</li> </ul>   |
| Public Review Version 3 Revision 02   | 06 February 2008 | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Schema: Modified element 'MorgueCapacityStatus' to be of type 'xsd: string with restrictions; enumerations include 'Open', 'Full' and 'Exceeded'</li> <li>Schema: Corrected typo: 'AdultGeneralSurgery'</li> </ul>  |
| Public Review Version 3 Revision 01   | 30 January 2008  | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Modified schema to change imported file from "xpil.xsd" to "xPIL.xsd"</li> <li>Changed [namespaces] reference to "T. Bray et al"</li> <li>Changed [XML 1.0] reference to "T. Bray et al"; changed link to "<a href="http://www.w3.org/TR/REC-xml/">http://www.w3.org/TR/REC-xml/</a>"</li> <li>Replaced [dateTime] reference with "P. Biron and A. Malhotra, XML Schema Part 2: Datatypes Second Edition, <a href="http://www.w3.org/TR/xmlschema-2">http://www.w3.org/TR/xmlschema-2</a>, W3C REC-xmlschema-2, Sec 3.2.7, dateTime (<a href="http://www.w3.org/TR/xmlschema-2/#dateTime">http://www.w3.org/TR/xmlschema-2/#dateTime</a>), October 28 2004"</li> <li>Modified examples to include namespaces</li> </ul> |
| Public Review Version 3               | 10 October 2007  | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Included Conformance section as per OASIS guidelines</li> <li>Made changes following internal TC review. These changes are highlighted here in: <a href="http://www.oasis-open.org/committees/document.php?document_id=25471&amp;wg_abbrev=emergency">http://www.oasis-open.org/committees/document.php?document_id=25471&amp;wg_abbrev=emergency</a></li> </ul>  |
| Public Review Version 3.0             | 29 June 2007     | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Made changes following the public review period. These changes are highlighted in the EDXL HAVE Issues List v4.2 - <a href="http://www.oasis-open.org/committees/download.php/24513/EDXL_HAVE_IssuesList_v4.3.xls">http://www.oasis-open.org/committees/download.php/24513/EDXL_HAVE_IssuesList_v4.3.xls</a></li> </ul>   |
| Public Review Version 2.0             | 13 November 2006 | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Changed document status from 'Public Review Draft 1.0 Revision 01' to 'Public Review Draft 2.0'</li> <li>Changed approval date to '02 November 2006'</li> </ul>   |
| Public Review Version 1.0 Revision 01 | 23 October 2006  | Sukumar Dwarkanath | <ul style="list-style-type: none"> <li>Changed datatype of &lt;LocationPostalCodeID&gt; from 'Integer' to 'String'</li> <li>Changed Cardinality of Capacity element from '0 to *' to '0 to 1'; modified DOM to reflect changes</li> <li>Renamed &lt;Bed&gt; to &lt;BedType&gt;</li> <li>Renamed &lt;SubCategoryBed&gt; to &lt;SubCategoryBedType&gt;</li> <li>Removed Maximum limit enumeration – 60 Mts – from &lt;EMSOffloadMinutes&gt;</li> </ul>   |

|  |  |  |   |
|--|--|--|---|
|  |  |  | <ul style="list-style-type: none"> <li>• Changed datatype of &lt;ServiceCoverageStatus&gt; element to xsd:boolean type</li> <li>• Changed datatype of Surgery element to xsd:boolean</li> <li>• Replaced OGC GML Profile schema with new version of schema; replaced schema diagram</li> <li>• Modified EDXL-HAVE schema; modified EDXL-HAVE example</li> <li>• Formatted document to be consistent with OASIS template</li> <li>• Added metadata - This Version and Previous version; corrected IPR Policy note – changed year from ‘2005’ to ‘2006’; corrected IPR note – Changed ‘wsrf’ to ‘emergency’; removed Organization affiliation from Editor Name; corrected numbering of sections 3.2.6 and 3.2.7; added Non-normative changes; removed Corporate Affiliations from List of Associate Members in Appendix; modified key word list.</li> <li>• Added Revision History Table</li> <li>• Formatted element names, datatype, and parent elements.</li> <li>• Renamed appendix C.1 - geo-oasis ELEMENTS</li> </ul> |
|--|--|--|---|

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