



Emergency Data Exchange Language Situation Reporting (EDXL-SitRep) Version 1.0

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

- XML schemas and examples: <http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/cs01/schemas-and-examples/>

Related work:

This specification is related to:

- Emergency Data Exchange Language (EDXL) Distribution Element v1.0, http://docs.oasis-open.org/emergency/edxl-de/v1.0/EDXL-DE_Spec_v1.0.pdf
- Emergency Data Exchange Language (EDXL) Hospital Availability Exchange v1.0, http://docs.oasis-open.org/emergency/edxl-have/v1.0/emergency_edxl_have-1.0.html
- Emergency Data Exchange Language (EDXL) Resource Messaging v1.0, <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-os.html>
- Emergency Data Exchange Language Common Types v1.0, <http://docs.oasis-open.org/emergency/edxl-ct/v1.0/edxl-ct-v1.0.html>
- Emergency Data Exchange Language Customer Information Quality v1.0, <http://docs.oasis-open.org/emergency/edxl-ciq/v1.0/edxl-ciq-v1.0.html>

Abstract:

This XML-based Emergency Data Exchange Language (EDXL) Situation Reporting specification describes a set of standard reports and elements that can be used for data sharing among emergency information systems, and that provide incident information for situation awareness on which incident command can base decisions.

Status:

This document was last revised or approved by the OASIS Emergency Management TC on the above date. The level of approval is also listed above.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/emergency/>.

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1 Introduction

All text is normative unless otherwise labeled

1.1 Purpose

The ongoing goal of the Emergency Data eXchange Language (EDXL) project is to facilitate emergency information sharing and data exchange across the local, state, tribal, national and non-governmental organizations of different professions that provide emergency response and management services. EDXL accomplishes this goal by focusing on the standardization of specific messages (messaging interfaces) to facilitate emergency communication and coordination particularly when more than one profession or governmental jurisdiction is involved.

The current roster of EDXL Standards includes:

- The Common Alerting Protocol v1.2 specification (EDXL-CAP)
- The Distribution Elementspecification v1.0 (EDXL-DE)
- The Hospital AVailability Exchange specification v1.0 (EDXL-HAVE)
- The Resource Messaging specification v1.0 (EDXL-RM)

The primary purpose of the Emergency Data Exchange Language Situation Reporting (EDXL-SitRep) Specification is to provide a set of standard formats for XML emergency response messages specifically aimed at transmitting timely situation reports. These situation reports are specifically designed as payloads of the Emergency Data Exchange Language Distribution Element (EDXL-DE). Together EDXL-DE and EDXL-SitRep are intended to expedite well-informed incident command decisions needed to respond effectively and adapt to emergency incidents, facilitating communication across various responding organizations and up the chain of command. The Distribution Element may be thought of as a container that provides the information to route "payload" message sets (such as alerts, hospital availability reports, resource messages or situation reports), by including key routing information such as distribution type, geography, incident, and sender/recipient IDs.

The EDXL-SitRep message is constrained to the set of pre-defined Report types contained in this specification. The EDXL-SitRep message is intended to be the payload or one of the payloads of the Distribution Element which contains it.

1.2 History

Through a practitioner-driven approach, the Command, Control and Interoperability Division (CID) within the U.S. Department of Homeland Security's Science and Technology Directorate creates and deploys information resources to enable seamless and secure interactions among state, local, tribal, international, private entities, homeland security stakeholders and other federal entities. CID creates and deploys Information resources such as standards, frameworks, tools, and technologies.

CID is organized into five program areas: Basic/Futures Research; Cyber Security; Knowledge Management Tools; Office for Interoperability and Compatibility (OIC); and Reconnaissance, Surveillance, and Investigative Technologies.

Following voice interoperability programs such as SAFECOM, the OIC's interoperable messaging standards program was initiated as one of the President's e-Gov initiatives in 2001. The OIC mission is to serve as the standards program within the Federal Government to facilitate local, tribal, state, and federal public safety and emergency response agencies to improve emergency / disaster response through effective and efficient interoperable data sharing. OIC sponsors the process to facilitate practitioner requirements for the development of EDXL standards.

EDXL will accomplish this mission through the standardization of specific messages (XML messaging interfaces) which facilitate coordination and emergency communication between disparate software applications and systems - particularly when more than one profession or jurisdiction is involved.

The EDXL program is an open, public practitioner-driven process driven solely by cross-profession emergency practitioners through an OIC-sponsored Practitioner Steering Group (PSG) and Standards Working Group (SWG). The EDXL program is also a public-private partnership working with the EIC (Emergency Interoperability Consortium), Vendor communities, and OASIS (Organization for the Advancement of Structured Information Standards), which develops and publishes the open, public EDXL standards free of charge.

The OIC-sponsored Practitioner Steering Group (PSG) governance was formalized following publication of the EDXL Distribution Element. It plays a key role in the direction, prioritization, definition, and execution of the DHS-OIC program. The group is comprised of representatives of major emergency response associations and organizations, setting priorities and providing recommendations regarding messaging standards development as well as the other facets of the OIC-EDXL program.

The PSG identified the EDXL Situation Reporting (EDXL-SitRep) Specification effort as the top priority standard by this group following the development of EDXL-DE, EDXL-HAVE and EDXL-RM. Utilizing standard process and governance, the requirements and specification effort was initiated by this group in partnership with industry members of the Emergency Interoperability Consortium (EIC) and the Standards Working Group (SWG). The EDXL-SitRep draft specification was developed based on explicitly defined requirements which were submitted to the OASIS Emergency Management Technical Committee (EM-TC) to begin work on this international EDXL-SitRep standard.

The EDXL Situation Reporting standard defines five (5) separate and specific report types to support incident command decision-making across the emergency incident life-cycle. This includes preparedness, pre-staging of resources, initial, ongoing response, recovery and demobilization / release of resources and after-action analysis to identify needed improvements in ongoing preparedness.

1.3 Structure of the EDXL Situation Reporting Specification

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

The structure of the EDXL Situation Reporting standard is defined in the following sections:

- Section 3.1, The Element Reference Model (ERM), shows the abstract structural relationships of the main components of the EDXL-SitRep.
- Section 3.2, Distribution of EDXL Situation Reporting, describes practitioner requirements which are met through the EDXL-Distribution Element (DE)
- Sections 3.3.2 through 3.3.6 define the five (5) individual EDXL-SitRep report types
- Section 4 The Data Dictionary, defines each element contained in the EDXL-SitRep standard message

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

The following descriptions provide a brief overview of each EDXL-SitRep component to assist with an overall understanding of this standard diagrams, figures and tables.

The Non-normative Element Reference Model diagram in Figure 2 of Section 3.1 shows the abstract structural relationships of the main components shown as packages of specific message elements. The EDXLSitRepRoot ERM diagram in Figure 3 of Section 3.3.1 shows the structural relationships of the main Situation Report elements used throughout the individual situation reports.

1. The *EDXLSitRepRoot* element of the EDXL-SitRep message, containing elements used throughout each individual situation report such as IReport, MessageID, PreparedBy, and IncidentID.
2. A SituationInformation report type identifies and describes the incident with message elements such as IncidentName, IncidentLocation and IncidentType.

3. A FieldObservation report type provides a fast and flexible basic report of an observation in the field by emergency response & management professionals, as a textual description by human parties acting as mobile sensors. This report type is intended for standardized receipt of Field Observations, which may then undergo verification and/or integration into formal Situation Reporting.
4. A CasualtyAndIllnessSummary report type provides counts by responder and non-responders for various categories such as fatalities, missing and hospitalized over specified time periods. These data items may be collected as needed and combined in the manner required for specific reports or for decision making purposes.
5. A ResponseResourcesTotals report type contains responding resources and resource needs to manage and coordinate resource decisions. This report type keeps this information organized together for ease of reference and reuses the EDXL Resource Messaging Elements as needed.
6. A ManagementReportingSummary report type provides for the collection of data related to management concerns such as operational planning, damage and threat assessment, weather conditions, etc. It contains incident organization information where cross-profession or jurisdiction Incident Command structure is in place.
 - 6.1 A SituationSummary package provides supporting information for ManagementReportingSummary or user-defined custom reports.
 - 6.2 A DecisionSupportInformation package likewise provides detailed information supporting the ManagementReportingSummary report type or user-defined custom reports.
7. A Supporting Elements Model package provides the following:
 - 7.1 A CommonTypes Package of elements organized separately to be reused as needed, including a ValueListTypeInfoInformation subset.
 - 7.2 A ContactInformation Package of elements organized separately to be reused as needed, including the EDXL-CIQ Profile;
 - 7.3 A LocationInformation Package of elements organized separately to be reused as needed including the EDXL-GSF Profile.

Table 1 in Section 3.3 provides a Situation Report Type Summary of the five (5) specific types of Situation Report messages. This provides a quick overview of the message types contained in this standard.

1.4 Terminology

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

The term “Conditional” as used in this specification is to be interpreted that a message *element* MUST be used, according to specified rules, within a particular report message type (elements MUST be one of “Required,” “Optional” or “Conditional”).

1.5 Normative References

- | | |
|---------------------|---|
| [EDXL-SitRep-Rqmts] | <i>EDXLSituation Reporting Requirements</i> http://www.oasis-open.org/committees/download.php/32036/EDXL-SitRep-Rqmts-MsgSpec020209.pdf 2 February 2009 |
| [RFC2119] | S. Bradner, <i>Key words for use in RFCs to Indicate Requirement Levels</i> , http://www.ietf.org/rfc/rfc2119.txt , IETF RFC 2119, March 1997. |
| [RFC2046] | N. Freed, <i>Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types</i> , http://www.ietf.org/rfc/rfc2046.txt , November 1996. |
| [RFC3066] | H. Alvestrand, <i>Tags for the Identification of Languages</i> , http://www.ietf.org/rfc/rfc3066.txt , IETF RFC 3066, January 2001. |

- [WGS 84]** National Geospatial Intelligence Agency, Department of Defense World Geodetic System 1984, <http://earth-info.nga.mil/GandG/publications/tr8350.2/wgs84fin.pdf>, NGA Technical Report TR8350.2, January 2000.
- [XML 1.0]** T. Bray, *Extensible Markup Language (XML) 1.0 (Third Edition)*, <http://www.w3.org/TR/REC-xml/>, W3C REC-XML-20040204, (Fifth Edition) 26 November 2008.
- [namespaces]** T. Bray, *Namespaces in XML*, <http://www.w3.org/TR/REC-xml-names/>, W3C REC-xml-names-19990114, (Third Edition) W3C Recommendation 8 December 2009
- [dateTime]** N. Freed, *XML Schema Part 2: Datatypes Second Edition*, <http://www.w3.org/TR/xmlschema-2/#dateTime>, W3C REC-xmlschema-2, October 2004.
- [EDXL-DE]** *Emergency Data Exchange Language (EDXL) Distribution Element v1.0*. 1 May 2006. OASIS Standard 01. http://docs.oasis-open.org/emergency/edxld/v1.0/EDXL-DE_Spec_v1.0.pdf
- [EDXL-HAVE]** *Emergency Data Exchange Language (EDXL) Hospital Availability Exchange..* OASIS Standard 01 http://docs.oasis-open.org/emergency/edxlhave/v1.0/emergency_edxl_have-1.0.html, 1 November 2008
- [EDXL-RM]** *Emergency Data Exchange Language (EDXL) Resource Messaging*. OASIS Standard. V1.0. <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-os.html>, 1 November 2008
- [EDXL-CT]** *Emergency Data Exchange Language Common Types 1* Committee Specification Draft 01 <http://docs.oasis-open.org/emergency/edxl-ct/v1.0/edxl-ct-v1.0.pdf>, 12 December 2011
- [EDXL-CIQ]** *Emergency Data Exchange Language Customer Information Quality* OASIS Committee Specification Draft 01 <http://docs.oasis-open.org/emergency/edxl-ciq/v1.0/edxl-ciq-v1.0.pdf>, 14 March 2012
- [EDXL-GSF]** *Emergency Data Exchange Language GML Simple Features Profile* OASIS Committee Specification Draft 01 <http://docs.oasis-open.org/emergency/edxl-gsf/v1.0/edxl-gsf-v1.0.pdf>, 7 December 2011
- [OGC CRS]** Open Geospatial Consortium, Topic 2 - Spatial Referencing by Coordinates (Topic 2) (CRS Abstract Specification), https://portal.opengeospatial.org/files/?artifact_id=6716, Version 3, 2004.

1.6 Non-Normative References

- [EDXL GFR]** *EDXL General Functional Requirements*, <http://www.oasis-open.org/committees/download.php/10031/EDXL%20General%20Functional%20Requirements.doc>, November 2004
- [EDXL-DE IG]** *EDXL Distribution Element Implementer's Guide*, http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.doc, August 2005
- [ISO 4217]** ISO 4217:2001, Codes for the representation of currencies and funds
- [ISO 4217 codes]** *ISO 4217 currency names and code elements*, http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm
- [UCUM]** Gunther Schadow, Clement J. McDonald, *The Unified Code for Units of Measure, Version 1.6*, <http://aurora.regenstrief.org/UCUM/ucum.html>, Regenstrief Institute for Health Care, 2005

2 Design Principles and Concepts (Non-normative)

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

- Provide a standard message format for the Situation Report
- Separation of EDXL-SitRep message structure from routing header structure
- Provide separate specific formats for the distinct Situation Report Types in order to simplify implementation and use
- Enable dissemination of messages based on geographic delivery area
- Use and reuse of data content and models developed by other initiatives
- Business process-driven specific messaging needs across emergency professions
- Supporting everyday events and incident preparedness, as well as disasters
- Facilitate emergency information sharing and data exchange across the local, state, tribal, national and non-governmental organizations of different professions that provide emergency response and management services

2.1 Requirements for Design

The initial requirements submitted to the Technical Committee by the DHS-OIC sponsored EDXL Standards Working Group (SWG) described in Section 1.2 can be reviewed at:

<http://www.oasis-open.org/committees/download.php/32036/EDXL-SitRep-Rqmts-MsgSpec020209.pdf>

The word processing version of this document can be found at:

<http://www.oasis-open.org/committees/download.php/32278/EDXL-SitRep-Rqmts-MsgSpec020209.doc>

2.2 Example Usage Scenarios

Note: The following examples of usage scenarios were used as a basis for development of the practitioner requirements and messaging specification document which was submitted to OASIS. These scenarios are non-normative and not intended to be exhaustive or to reflect actual practices.

2.2.1 Train Derailment Example

This scenario follows the detection of a train derailment either by a GPS system or by a citizen report via 911/PSAP. An early use case, this specific case illustrated a number of areas where a clarification of the system needs to be made.

Full use case available: http://www.oasis-open.org/committees/download.php/32043/EDXL_use_case_Train_Derailv1.5final.doc

This scenario includes subsequent developments in a traffic accident and biohazard incident.

2.2.2 Levee Break and Evacuation with Law Enforcement Focus

The National Weather Service is reporting that there is no let-up in sight to the rain storm that has been drenching the area for the last 36 hours. An unprecedented amount of rain has fallen. A levee next to a local town is threatening to break.

Estimates of engineers indicate that the levee will only hold for another 2 hours. This is the time frame in which the initial response must take place. Emergency Management has notified local law enforcement: that the 2,000 residents at risk must be evacuated immediately. 200 are elderly, of which 50 are non-ambulatory.

230 Rising water levels also threaten to cause two major rivers, one flowing through a major neighboring town
231 to the west, to overflow their banks and cause massive flooding across the region. These floods will
232 impact areas of the original town not affected by the impending levee break.

233 If these rivers do overflow their banks, then an additional and much larger number of people will need to
234 be warned and evacuated.

235 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/32042/EDXL_use_case_LeveeBreakEvac_v1.1final.doc)
236 [open.org/committees/download.php/32042/EDXL_use_case_LeveeBreakEvac_v1.1final.doc](http://www.oasis-open.org/committees/download.php/32042/EDXL_use_case_LeveeBreakEvac_v1.1final.doc)

237 **2.2.3 EMS Call**

238 This scenario takes place in Bayport on a coastal island across a bridge from Fisherville on the mainland.
239 The nearest large city is Central City which is 40 miles away and has two hospitals. The first, Faith
240 Hospital, is a regional cardiac catheterization and care center. Central City Hospital is a level 1 trauma
241 center and operates a medevac helicopter service called Med Flight-1. Fisherville has a small community
242 hospital with a physician-staffed ER. Fisherville Hospital runs a health clinic in Bayport, staffed by a
243 physician assistant. The Bayport EMS (BEMS) staff supports the physician assistant, as well as Central
244 City and Faith Hospital physicians who have patients in Bayport, by working in the clinic

245 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/32041/EDXL_use_case_EMS_Callv1.4final.doc)
246 [open.org/committees/download.php/32041/EDXL_use_case_EMS_Callv1.4final.doc](http://www.oasis-open.org/committees/download.php/32041/EDXL_use_case_EMS_Callv1.4final.doc)

247 **2.2.4 Road Rescue -- Highway Incident Scenario & Use Case**

248 This scenario timeline was pieced together using actual documents supporting the "ROAD RESCUE 06
249 Exercise Plan", a joint, full scale mass casualty exercise involving Baltimore County, the private sector
250 and the State of Maryland on March 20, 2006.

251 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/32040/RoadRescue06ScenarioV1.3final.doc)
252 [open.org/committees/download.php/32040/RoadRescue06ScenarioV1.3final.doc](http://www.oasis-open.org/committees/download.php/32040/RoadRescue06ScenarioV1.3final.doc)

253 **2.2.5 Pandemic Influenza**

254 This scenario models an H5N1 Influenza Pandemic outbreak first detected in South China which then
255 spreads out to global involvement. This use case details the communications using EDXL, during the
256 various stages or phases of response.

257 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/32039/Pandemic_Influenza_ScenarioV1.7final.doc)
258 [open.org/committees/download.php/32039/Pandemic_Influenza_ScenarioV1.7final.doc](http://www.oasis-open.org/committees/download.php/32039/Pandemic_Influenza_ScenarioV1.7final.doc)

3 EDXL Situation Reporting Model (Normative unless otherwise stated)

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

Note: Please report any such errors to OASIS.

3.1 Element Reference Model (Non-normative)

Figure 2 below shows the EDXL–SitRep Element Reference Model (ERM). The purpose of the ERM is to define the SitRep structure and the relationships between the main entities and their elements. Using the Unified Modeling Language as a means to illustrate the relationships, the ERM is not strictly normative. It is important that the ERM is not used as an implementation model. The exact semantics and structure are captured in the subsequent sections in the specific predefined EDXL Situation Report Message Types.

The ERM is organized into groups of related elements with relationships between those groups and the report type in which they are used.

The Supporting Elements Model package is not specifically associated with any report type or group of elements because these sets of elements are common to all EDXL messages and may be used in any EDXL SitRep message to which they apply.

3.1.1 Report Types Instantiate Abstract Type IReport (Non-normative)

The EDXLSituationReporting XML Schema provided separately and included in Appendix Appendix B uses the Abstract Type <IReport> element as the basis for the <Report> element in the EDXLSitRepRoot. The five report types shown in Figure 1 below are the types which may be declared using the <Report> element thus:

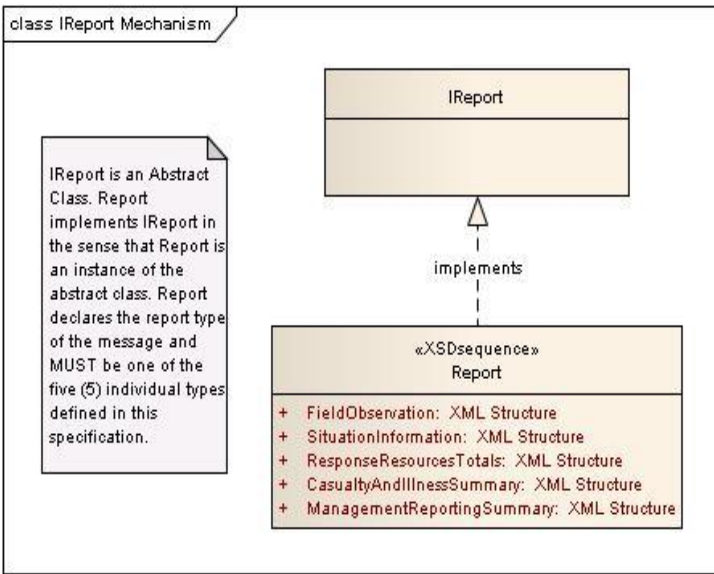
```
<Report xsi:type="FieldObservation">
```

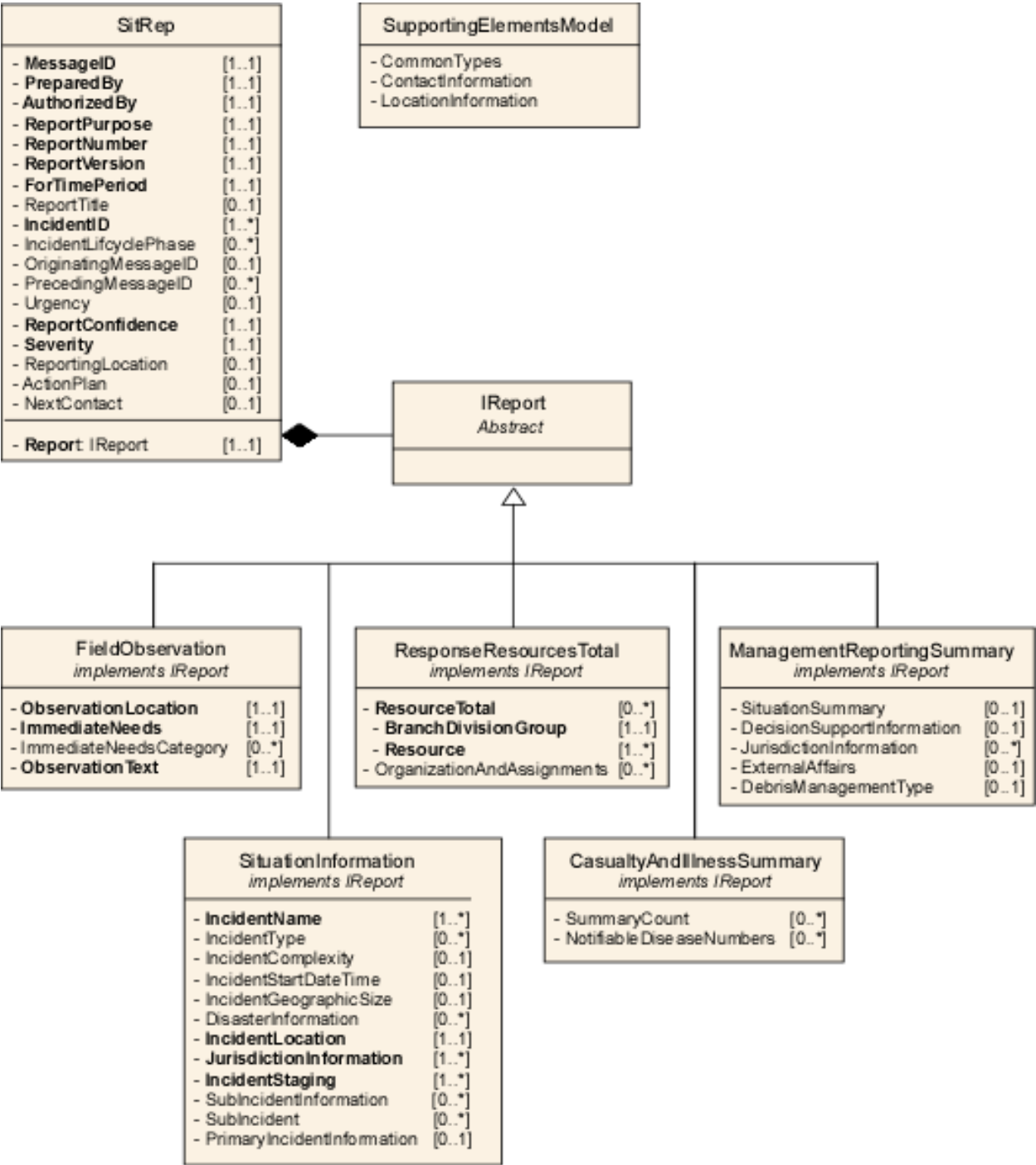
The code above declares the Report type based on <IReport> from EDXL–SitRep XML Schema shown below:

```
<xs:complexType name="IReport"
  abstract="true"/>
```

This is more completely explained in the Data Dictionary Section

Figure 1: <Report> and <IReport>Elements





294

295 Figure 2: EDXL-SitRep Element Reference Model (ERM)

296 The SitRep-ERM shows the element-level details for the main entities in EDXL-SitRep overall. The
297 semantics for each of the elements is defined in Sections 3.3.2 through 3.3.6.

298 **3.2 Distribution of EDXL-SitRep**

299 The primary purpose of the Emergency Data Exchange Language Situation Reporting (EDXL-SitRep)
300 Specification is to provide a set of standard formats for XML emergency messages containing information
301 pertaining to the situation with which the message senders and recipients are involved. These EDXL-

SitRep Messages are specifically designed as payloads of the EDXL-DE. Together EDXL-DE and EDXL-SitRep are intended to expedite activities associated with reporting on various situation and response activities. As set forth in Design Principles, routing and distribution information is found only in the EDXL-DE and not in the EDXL-SitRep.

While the EDXL-SitRep is designed to be an EDXL-DE payload, other routing mechanisms may be used to distribute EDXL-SitRep content if the message metadata is provided in the same form or if the sender specifies specific recipients of the payload.

3.2.1 EDXL Distribution Element (EDXL-DE)

EDXL Distribution Element (EDXL-DE) V 1.0 was approved as an OASIS standard in April 2006. The EDXL-DE provides a flexible message-distribution framework for data sharing among emergency information systems using XML. The EDXL-DE may be used over any data transmission system, including, but not limited to, the SOAP HTTP binding.

The primary purpose of the Distribution Element is to facilitate the routing of emergency messages to recipients. The Distribution Element may be thought of as a container. It provides the information to route "payload" message sets by including key routing information such as distribution type, geography, incident, and sender/recipient IDs. Messages may be distributed to specific recipients, to recipients in a geographic area, or based on codes such as agency type (police, fire, etc.).

The following subsections describe practitioner requirements which are met through the EDXL-Distribution Element (DE)

3.2.1.1 Identifying SitRep MessageType

The Requirement for identifying the "Message Type" of the EDXL-SitRep is handled by the <distributionType> element of EDXL-DE v1.0. This is distinct from the "Report Type" of an EDXL-SitRep message. It is expected that most EDXL-SitRep messages will be of <distributionType> "Report" shown below.

The <distributionType> element defines the function of the message and this functional name for the EDXL-SitRep "Message Type" takes the form of an XML enumeration where the value must be one of:

- Report - New information regarding an incident or activity.
- Update - Updated information superseding a previous message.
- Cancel - A cancellation or revocation of a previous message.
- Request - A request for resources, information or action.
- Response - A response to a previous request.
- Ack - Acknowledgment of receipt of an earlier message.
- Error - Rejection of an earlier message (for technical reasons).

It is important to note, as will be detailed later, that identifying a text message as a "Request" for a Situation Report is handled by the EDXL <distributionType> element.

3.2.1.2 Identifying Message Sender

The Requirement for identifying the "Message Sender" of the EDXL-SitRep is handled by one or two elements of EDXL-DE v1.0. The EDXL-DE v1.0 <senderID> or an element with the identical definition and properties MUST be present in the EDXL-DE or other routing mechanism used to distribute an EDXL-SitRep message. The <senderRole> or an element with the identical definition and properties MAY be present.

<senderRole> is expressed in an XML ValueList and Value.

- The list and associated value(s) is in the form:

```
<senderRole>
  <valueListUrn>valueListUrn</valueListUrn>
```

```
<value>value</value>
</senderRole>
```

- Where the content of <valueListUrn> is the Uniform Resource Name of a published list of values and definitions, and the content of <value> is a string (which may represent a number) denoting the value itself.
- Multiple instances of the <value>, MAY occur with a single <valueListUrn> within the <senderRole> container.

3.2.1.3 DateTime Message Sent

The EDXL-DE v1.0 <dateTimeSent> element is used to established the date and time the EDXL-DE package contained the EDXL-SitRep message is sent.

- DateTime elements are represented consistent with previous EDXL standards (24-hour clock):
- The date and time is represented in [DateTime] format (e. g., "2008-06-11T16:49:00-07:00" for 11 June 2008 at 16:49 PDT).
- Alphabetic time zone designators such as "Z" MUST NOT be used. The time zone for UTC MUST be represented as "-00:00" or "+00:00

3.2.1.4 Identifying Situation Report Type

The message payload of an EDXL-DE package is a <contentObject> identified as <xmlContent> with a <contentDescription> of the EDXL-SitRep Report Type, i.e. FieldObservation, SituationInformation, ResponseResourcesTotals, CasualtyAndIllnessSummary or ManagementReportingSummary.

3.2.1.5 Multiple Report Types (Content Objects) in the Same 'Message'

The Requirement to carry multiple SitRep reports / report types in the same 'message' is handled by the the EDXL-DE v1.0, which can carry multiple content objects. Each <contentObject> MUST be well-formed <xmlContent>, or <nonXMLContent>. The EDXL-SitRep is designed to be well-formed XML for routing using the EDXL-DE.

Note: EDXL-DE 2.0 is expected to change the names 'xmlContent' and 'nonXMLContent'

3.2.1.6 MapSketch BinaryObject

The Requirement to carry a SitRep "map" or "sketch" as an object or image is handled by the the EDXL-DE v1.0 <nonXMLContent> object. The map or sketch may, for example provide information about the total incident area or total area of operations.

3.2.1.7 IncidentCommandStructureGraphic

A graphic representation for the IncidentCommandStructure detailed in the SitRep may be optionally provided as an aid to understanding the hierarchy of a given organization's or agency's position roles. This should be provided in the form of a graphic image carried by the EDXL-DE message header as separate content object.

3.2.1.8 Signature

A digital version of a signature may optionally be included to provide the authority that authenticates a particular Situation Report. A digital signature must be provided in the form of a graphic image carried by the EDXL-DE message header as separate content object.

3.2.1.9 Sensitivity and Releasability

The Requirement for identifying the "Sensitivity" or "Releasability" of an EDXL-SitRep is handled through the EDXL-DE v1.0 elements <Confidentiality> and <combinedConfidentiality>.

EDXL-DE has a top-level element <combinedConfidentiality> that indicates the confidentiality of the combined "Content Object" sub-elements. Generally the combined confidentiality is the most restrictive of the confidentiality elements in the "Content Object" element, but it can be more restrictive than any of the individual "Confidentiality" elements.

The <combinedConfidentiality> element MUST be present if a "Confidentiality" element is present in any of the "Content Object" elements.

"Confidentiality" elements are specified in ValueList structures and are used to meet the EDXL-SitRep requirements for "Sensitivity Text" approximately equivalent to a set of values like "Top Secret," "Sensitive, and Classified" and "Sensitive, but Unclassified."

"Confidentiality" elements are also used to meet the EDXL-SitRep requirements for "Releasability Level" which might also be approximately equivalent to a set of values above, but which might also be different, even within a single jurisdiction. So each jurisdiction should establish its own published ValueLists and policies governing these issues.

3.3 Situation Report Root and Report Types

As further described below, the *EDXLSitRepRoot* element is the top level element of the EDXL-SitRep message, containing elements used throughout each individual situation report. This section describes the primary components of EDXL-SitReps including the Root element and the five (5) Report Types.

The SitRep framework is based on a report model. In this model messages do not expect a Response, although a situation report can be requested. There is no inherent message exchange protocol represented in this standard.

A SitRep message MUST be carried as the payload of the EDXL-DE or a distribution mechanism with the distribution type values of Report, Update, Cancel, Request, Response, Ack and Error, as defined in EDXL-DE.

For example, the acknowledgement of a SitRep message is handled by the distribution mechanism. When a message recipient receives a SitRep message, it uses the EDXL-DE DistributionType value of "Ack" as an acknowledgement. An acknowledgement is intended to inform the sender that the SitRep message has been received.

EDXL-SitRep communication is characterized by two classes of primary actors. An "Incident Command" is an actor that needs or requires a situation report to undertake response decision(s) during an incident. An "Incident Command System" is an owner, or distributor, or manager of situation reports that can meet the needs of Incident Command. These actors need not belong to the same jurisdiction or organization.

423 EDXL-SitRep provides five (5) situation report messages defined in this standard, which are summarized
 424 in Table 1 below.

425 *Table 1: Situation Report Message Type Summary-- informative only. It shows how situation reports might flow in*
 426 *incident command*

| Message Type | Description | Message Sender |
|----------------------------|--|---|
| FieldObservation | Basic report that describes an observation that is directly observed by the reporter (an emergency professional). | On-Scene Incident Command / Planning Section / Situation Unit |
| SituationInformation | Message used to provide information on responding resources and resource needs to manage and coordinate resource decisions. | On-Scene Incident Command / Planning Section / Situation Unit |
| ResponseResourcesTotals | Message used to provide information on responding resources and resource needs to manage and coordinate resources. | On-Scene Incident Command / Logistics Section |
| CasualtyAndIllnessSummary | Message used to summarize information pertaining to the number and status of categorized casualties and victims of infectious agents associated with the incident. | Incident Command System/ Logistics Section / Services Unit / Medical Services |
| ManagementReportingSummary | Message used to summarize information and data relevant to ongoing management of incident response, typically used within the Incident Command Chain or across such chains between jurisdictions | Incident Command System / PIO / Logistics Section / Communications |

427
 428 Table 2 (below) summarizes all the Message Types and their element contents, including the Situation
 429 Report Root elements that can be used in any Message Type. The specific details on each of the
 430 Message Types are outlined in the following sections.

431
 432 **Table 2: Message Element Lists and Constraints** (Key: R = Required, C = Conditional, O = Optional)

433 **Table 2.1: Situation Report Root** – applies to all message types

| Message Element | [] | Message Element | [] | Message Element | [] |
|------------------------|------|----------------------|------|--------------------|------|
| MessageID | 1..1 | PreparedBy | 1..1 | AuthorizedBy | 1..1 |
| ReportPurpose | 1..1 | ReportNumber | 1..1 | ReportVersion | 1..1 |
| ForTimePeriod | 1..1 | ReportTitle | 0..1 | IncidentID | 1..* |
| IncidentLifecyclePhase | 0..* | OriginatingMessageID | 0..1 | PrecedingMessageID | 0..* |
| Urgency | 0..1 | ReportConfidence | 1..1 | Severity | 1..1 |
| ReportingLocation | 0..1 | ActionPlan | 0..1 | NextContact | 0..1 |
| Report | 1..1 | | | | |

435 Table 2.2: **FieldObservation**

| Message Element | [] | Message Element | [] | Message Element | [] |
|---------------------|------|-----------------|------|------------------------|------|
| ObservationLocation | 1..1 | ImmediateNeeds | 1..1 | ImmediateNeedsCategory | 0..* |
| ObservationText | 1..1 | | | | |

436

437 Table 2.3: **SituationInformation**

| Message Element | [] | Message Element | [] | Message Element | [] |
|-----------------------|------|-------------------------|------|--------------------|------|
| IncidentName | 1..* | IncidentType | 0..* | IncidentComplexity | 0..1 |
| IncidentStartDateTime | 0..1 | IncidentGeographicSize | 0..1 | IncidentLocation | 1..1 |
| DisasterInformation | 0..* | JurisdictionInformation | 1..* | IncidentStaging | 1..* |

438

439 Table 2.4: **ResponseResourcesTotals**

| Message Element | [] | Message Element | [] | Message Element | [] |
|--|------|-----------------------------|------|-----------------------------|------|
| ResourceTotal | 0..* | OrganizationAndAssignments | 0..* | | |
| <i>ResourceTotal</i> | | | | | |
| BranchDivisionGroup | 1..1 | Resource | 1..* | | |
| <i>ResourceTotal.Resource</i> | | | | | |
| AgencyOrganization | 1..1 | ResourceName | 1..1 | ResourceTypeCategoryKind | 0..1 |
| ResourceDetail | 0..1 | | | | |
| <i>ResourceTotal.Resource.ResourceDetail</i> | | | | | |
| ResourcePersonnelCount | 0..1 | UnassignedResourcePersonnel | 0..1 | ResourceRequiredCount | 1..1 |
| ResourceCommittedCount | 1..1 | ResourceOnHandCount | 1..1 | ResourceNeededCount | 1..1 |
| ResourceRequestedCount | 1..1 | DateTimeOrdered | 0..1 | RequestedArrival | 0..1 |
| EstimatedArrival | 0..1 | ReportToLocation | 0..1 | OverheadPosition | 0..* |
| WorkAssignment | 0..1 | SpecialInstructions | 0..1 | SpecialEquipmentAndSupplies | 0..* |
| AdditionalAssistingOrganizations | 0..1 | | | | |
| <i>OrganizationAndAssignments</i> | | | | | |
| CommandStructure | 0..1 | PositionTitle | 0..1 | PersonName | 0..1 |
| Branch | 0..1 | ReportsToPositionTitle | 0..1 | ReportsToPersonName | 0..1 |
| ReportsToAgency | 0..* | ReportsToBranch | 0..1 | | |

440

441 Table 2.5: **CasualtyAndIllnessSummary**

| Message Element | [] | Message Element | [] | Message Element | [] |
|-----------------|------|--------------------------|------|-----------------|-----|
| SummaryCount | 0..* | NotifiableDiseaseNumbers | 0..* | | |

| SummaryCount | | | | | |
|---------------------------------|------|---------------------------------|------|------------------------------------|------|
| CasualtyAndIllnessCountCategory | 1..1 | ResponderSummaryCount | 0..1 | NonResponderSummaryCount | 0..1 |
| ResponderSummaryCountToDate | 0..1 | NonResponderSummaryCount-ToDate | 0..1 | HaveReceivedMassImmunizationsCount | 0..1 |
| RequireMassImmunizationsCount | 0..1 | ShelterCountEstimate | 0..1 | | |
| NotifiableDiseaseNumbers | | | | | |
| DiseaseSuspected | 1..1 | ProbableCause | 1..1 | CountOfSuspectedCases | 1..1 |
| CountOfConfirmedCases | 1..1 | | | | |

Table 2.6: **ManagementReportingSummary**

| Message Element | [] | Message Element | [] | Message Element | [] |
|------------------------------|------|------------------------------|------|----------------------------------|------|
| SituationSummary | 0..1 | DecisionSupportInformation | 0..1 | JurisdictionInformation | 0..* |
| SituationSummary | | | | | |
| IncidentCause | 1..1 | SignificantEvents | 0..* | DamageAssessmentInformation | 0..* |
| PrimaryHazards | 0..1 | HazMatIncidentReport | 0..1 | ExtentOfContamination | 0..1 |
| GeneralPopulationStatus | 0..1 | HumanLifeAndSafetyThreat | 0..1 | LifeAndSafetyThreat | 0..1 |
| IncidentThreatSummaryAndRisk | 0..* | FollowOnIndication | 0..1 | InfrastructureAffected | 0..1 |
| PropertyDamage | 0..* | PercentContained | 0..1 | RequestsForAdditionalSupport | 0..1 |
| TerrorismNexus | 0..1 | WeatherEffects | 0..1 | WMDEffects | 0..1 |
| TransportationSystems | 0..* | | | | |
| DecisionSupportInformation | | | | | |
| ProjectedIncidentActivity | 0..1 | ProjectedNumberToBeSheltered | 0..1 | CriticalResourceNeeds | 0..* |
| ProjectedFinalIncidentSize | 0..1 | AnticipatedCompletionDate | 0..1 | ProjectedDemobilizationStartDate | 0..1 |
| EstimatedCostsToDate | 0..1 | ProjectedFinalCosts | 0..1 | EmergencyResponseIssues | 0..1 |
| StrategicDiscussion | 0..1 | PlannedActions | 0..1 | | |
| JurisdictionInformation | | | | | |
| Name | 1..1 | GeographicSize | 1..1 | Location | 1..1 |
| Description | 1..1 | | | | |

3.3.1 EDXLSitRepRoot Elements

EDXLSitRepRoot elements are the collection of elements shown in the Element Reference Model below. The SitRepRoot is at the top of SitRep structure. These elements are common to all EDXL-SitRep Report types, and each of these elements can appear in any report. In contrast to the Supporting Element Types which are common, re-usable elements applicable across the Emergency Data Exchange Language standards, SitRepRoot elements are specific to EDXL-Situation Reporting.

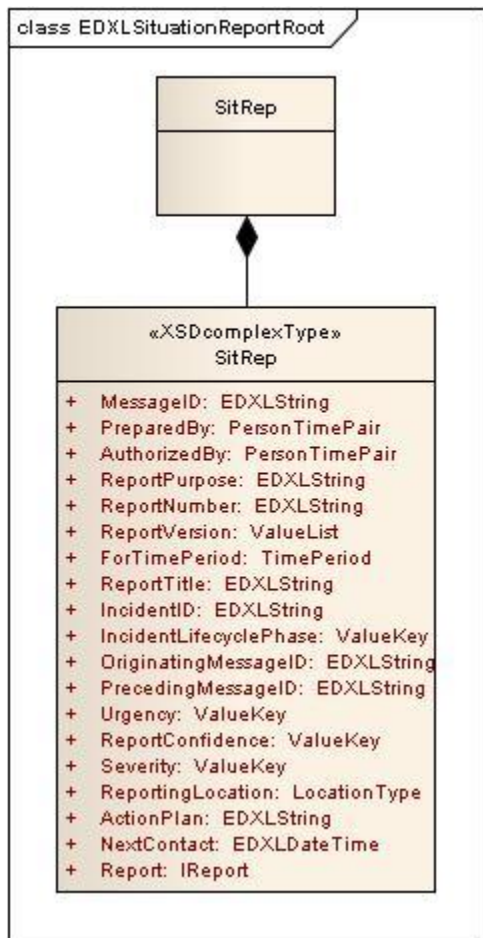


Figure 3: EDXLSitRepRoot Elements

It is of particular significance to note the relationship of the <FromDateTime> and <ToDateTime> elements to their parent element <ForTimePeriod>. In this case, while both child elements are REQUIRED whenever the parent element is present, the parent element itself is REQUIRED, making the entire ensemble REQUIRED.

3.3.2 FieldObservation Report Type

3.3.2.1 Overview

The “FieldObservation” report type is used as a basic report that describes an observation that is directly observed by the reporter (an emergency professional), consisting of only four elements.

3.3.2.2 Field Observation Element Reference Model (Non-normative)

Figure 4 below shows the FieldObservation report type Element Reference Model. The ERM shows the element-level details for the main entities in this fundamental report message type.

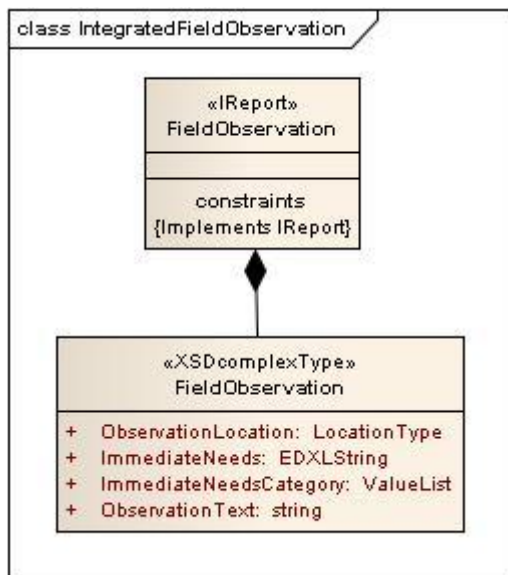


Figure 4: EDXLSitRep ERM for FieldObservation Report Type

The schema for a FieldObservation message is supplied separately at <http://docs.oasis-open.org/emergency/edxl-sr/v1.0/os/> and can be found in Appendix B.

3.3.3 SituationInformation Report Type

3.3.3.1 Overview

The “SituationInformation” report message type details the incident to which the current response is being mounted with elements such as IncidentName, IncidentType, IncidentComplexity and AffectedJurisdiction. SituationInformation intends to draw a concise and accurate picture of the situation.

3.3.3.2 SituationInformation Element Reference Model

Figure 5 below shows the SituationInformation report type Element Reference Model. The ERM shows the element-level details for the main entities in the SituationInformation report message type.

In addition, there are rules that apply to several elements that should be reviewed in the Message Rules section.

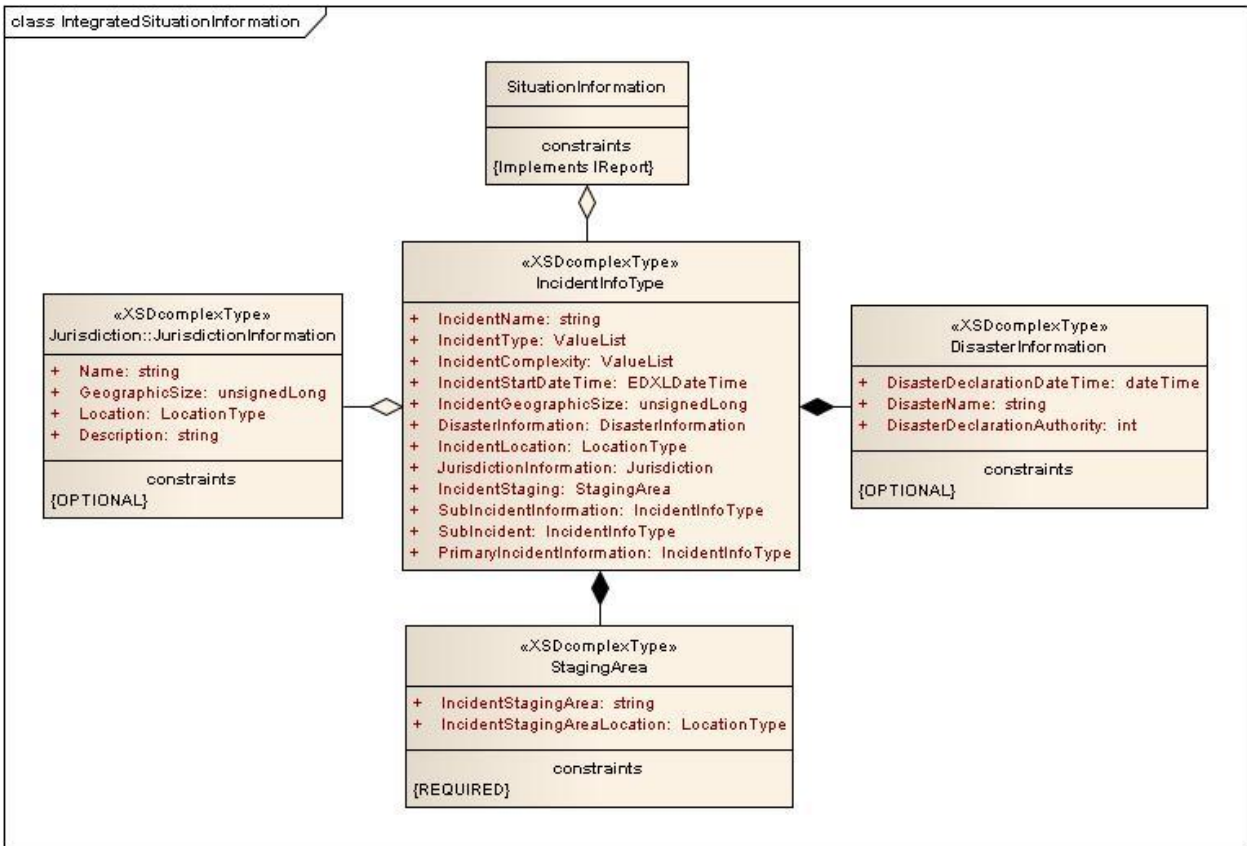


Figure 5: EDXLSitRep ERM for SituationInformation Message

The schema for a SituationInformation message is supplied separately at <http://docs.oasis-open.org/emergency/edxl-sr/v1.0/os/> and can be found in Appendix B.

3.3.4 ResponseResourcesTotals

3.3.4.1 Overview

The “ResponseResourcesTotals” report type is used to organize and report on the Resources needed or on hand for responding to the current incident.

3.3.4.2 ResponseResourcesTotals Element Reference Model

Figure 6 below shows the ResponseResourcesTotals report type Element Reference Model. The ERM shows the element-level details for the main entities in the ResponseResourcesTotals report message type.

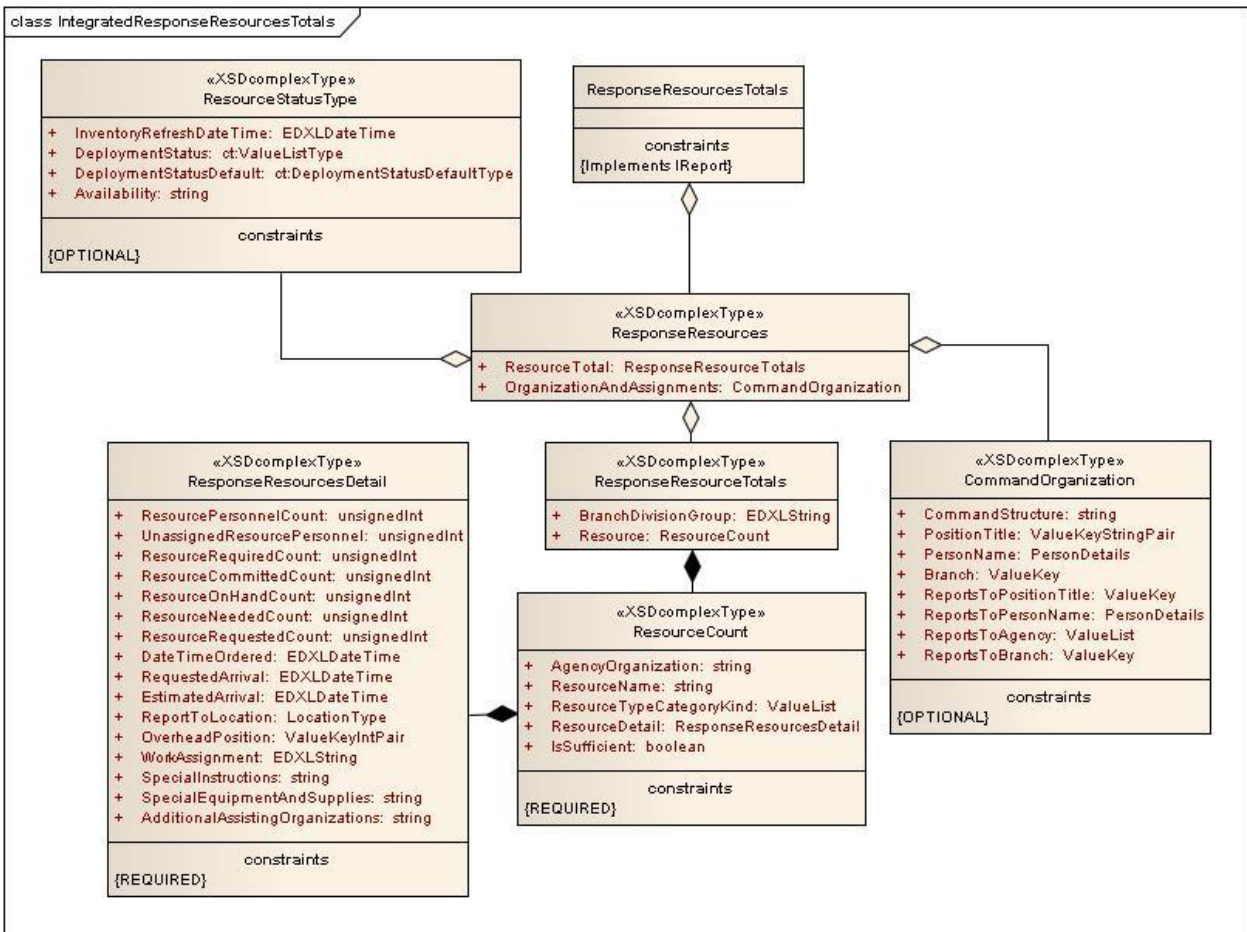


Figure 6: EDXLSitRep ERM for ResponseResourcesTotalse Message

The schema for a FieldObservation message is supplied separately at <http://docs.oasis-open.org/emergency/edxl-sr/v1.0/os/> and can be found in Appendix B.

3.3.5 CasualtyAndIllnessSummary Report Type

3.3.5.1 Overview

The “CasualtyAndIllnessSummary” report type is used to present a collection of vital data about the number and kind of casualties resulting from the incident. It is used by Incident Command to assess resource needs related to treating casualties and planning for associated needs such as Field Morgues, Field Hospitals, Temporary Shelters, etc.

3.3.5.2 CasualtyAndIllnessSummary Element Reference Model

Figure 7 below shows the CasualtyAndIllnessSummary report type Element Reference Model. The ERM shows the element-level details for the main entities in the CasualtyAndIllnessSummary report message type.

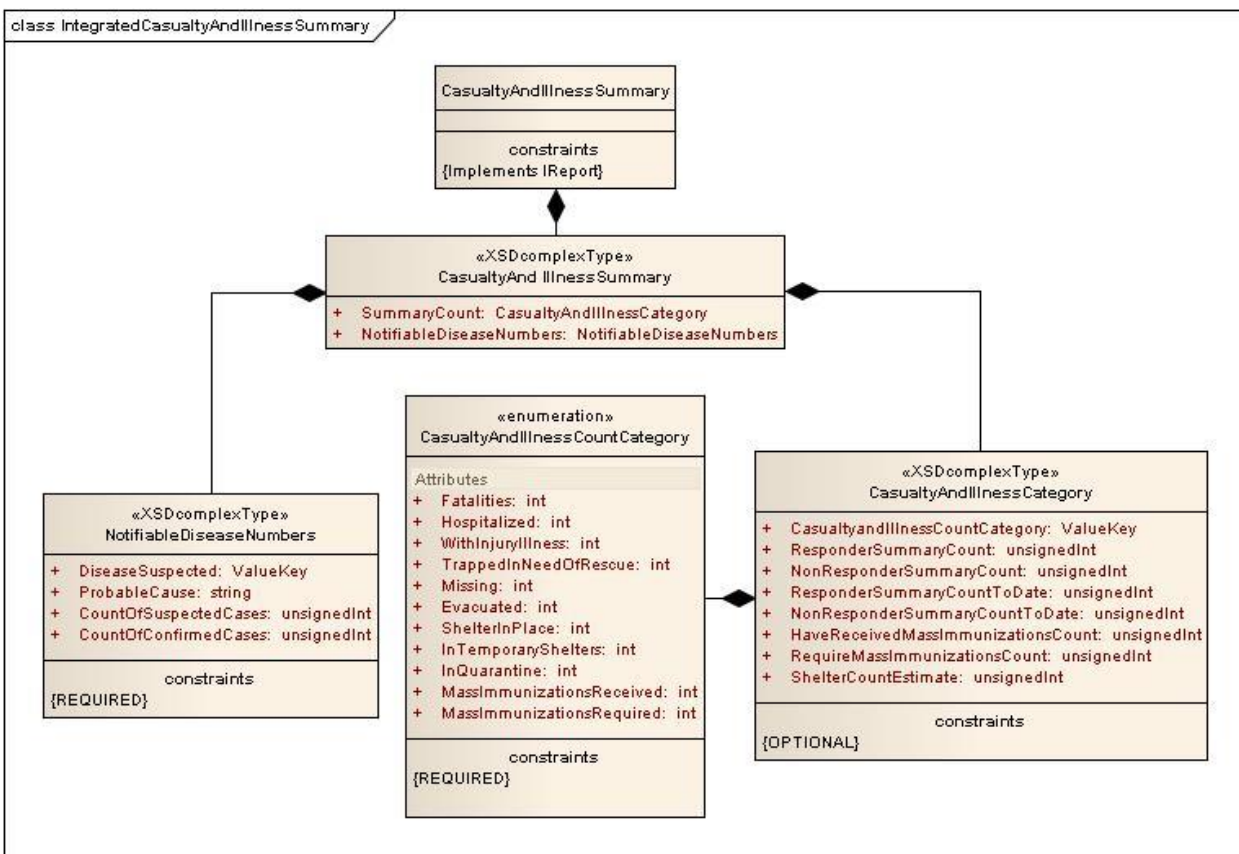


Figure 7 EDXLSitRep ERM for CasualtyAndIllnessSummary Message

The schema for a FieldObservation message is supplied separately at <http://docs.oasis-open.org/emergency/edxl-sr/v1.0/os/> and can be found in Appendix B.

3.3.6 ManagementReportingSummary Report Type

3.3.6.1 Overview

The “ManagementReportingSummary” report type is used to compile, organize and report on various aspects of incident management information across responding organizations and up the chain of command.

3.3.6.2 Element Reference Model

Figure 8 below shows the ManagementReportingSummary report type Element Reference Model. The ERM shows the element-level details for the main entities in the ManagementReportingSummary report message type.

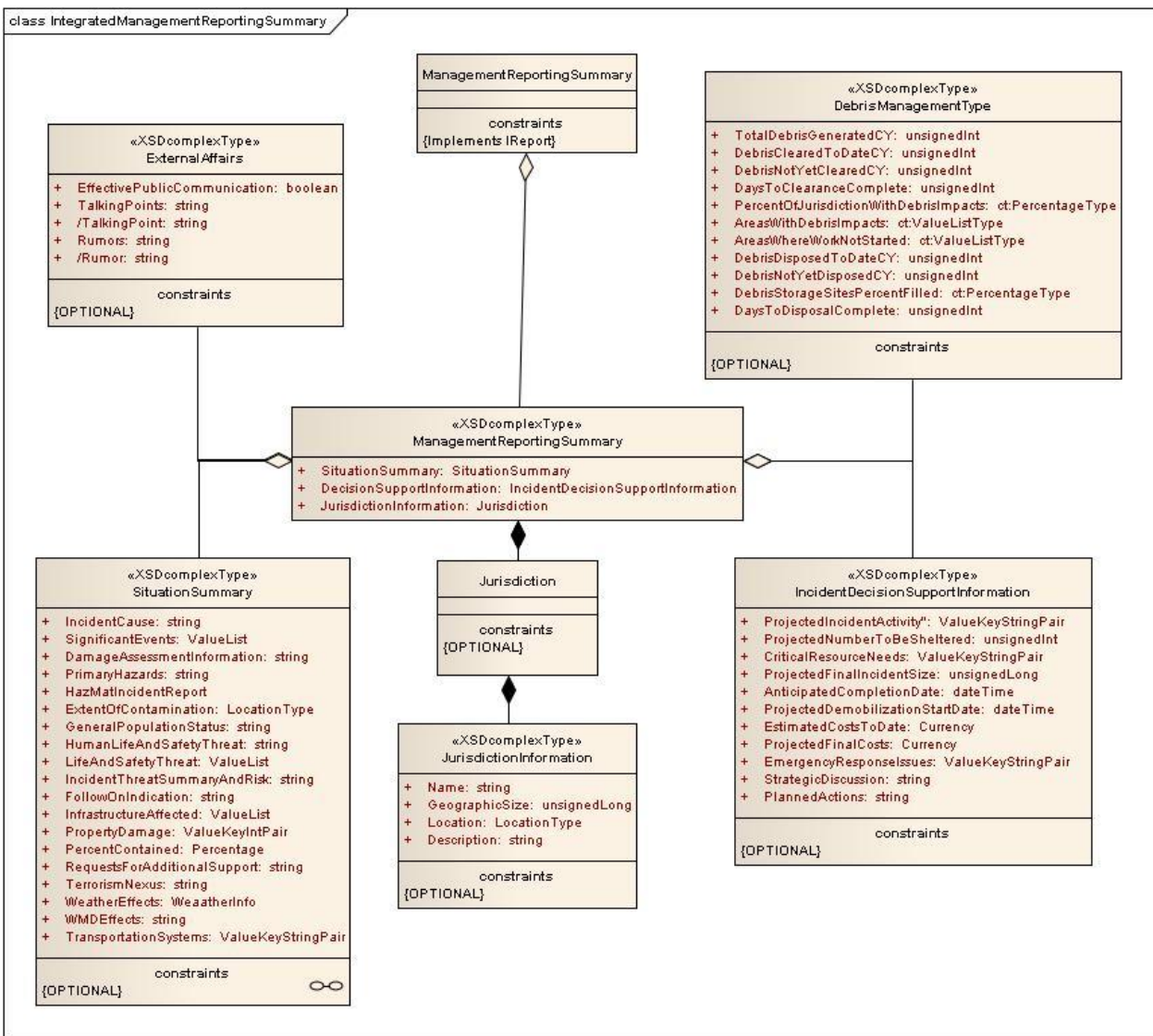


Figure 8: EDXLSitRep ERM for ManagementReportingSummary

The schema for a FieldObservation message is supplied separately at <http://docs.oasis-open.org/emergency/edxl-sr/v1.0/os/> and can be found in Appendix B.

4 Data Dictionary (Normative)

The data dictionary is intended to provide detailed definition of each element contained in the EDXL-SitRep standard. Where discrepancies may exist between this dictionary, the Element Reference Model (ERM), and the normative XML, the normative XML shall take precedence.

Element – Name of the element.

Type – Type or format of the element.

Usage – Optionality and Cardinality.

If no optionality specified, then the element is “Optional”.

If no Cardinality specified, the element **MUST** be used once and only once”

Definition – Definition of the element.

Comments – Additional comments or examples to add clarity.

Constraints – Limits imposed on the element. Also notes the container or “parent” to which the element belongs.

Source – Source of the requirement or usage of the element.

Requirements Supported – A code representing and referring to each requirement contained in the original submission from the practitioner process to OASIS. EACH general, functional or information requirement is accounted for by one or more elements in the data dictionary, and/or by relationships in the message structure, one or more business rules, or through the overall standard (e.g. for general and functional requirements).

4.1 “Routing Header” Elements

The following list of elements / information requirements are addressed through the OASIS EDXL-Distribution Element (DE) routing header (See Section 3.2 of this document for an explanation of each), which is used for routing and distribution of Situation information as well as other EDXL and non-EDXL payloads. The EDXL-SitRep standard is designed as a payload requiring use of a routing header, and specifically designed for use with the EDXL-Distribution Element (DE). The EDXL-DE is the required routing/distribution header for EDXL-SitReps unless an alternative routing header is available which meets all requirements of the EDXL-SitRep standard as specified in this section, and includes each element required of the EDXL-DE standard.

| EDXL-SitRep Requirement | EDXL-DE Element(s) |
|-------------------------|--|
| Message Type | DistributionType |
| MessageSender | SenderID and SenderRole |
| SensitivityText | Confidentiality and combinedConfidentiality |
| ReleasabilityLevel | Confidentiality and combinedConfidentiality |
| Content Containers | “XMLcontent” and “nonXMLcontent” containers |
| SentDateTime | dateTimeSent |
| Signature | “nonXMLcontent” containers |

4.2 IReport and Report Elements

The IReport element is the top level element in the EDXL-SituationReporting XML Schema provided separately and in Appendix Appendix B. The IReport element is specified as an abstract type.

```
<xs:complexType name="IReport" abstract="true"/>
```

This means that it cannot itself be used in an instance document. It must be instantiated by the element that is specifically defined to be its substitute, in this case, Report, as shown here:

```
<xs:element name="Report" type="IReport" minOccurs="1" maxOccurs="1"/>
```

Report can then be used to declare the Report Type of any given EDXL-SitRep message as shown here:

```
<Report xsi:type="FieldObservation">
```

| Element | IReport |
|------------------------|--|
| Type | [AbstractType] |
| Usage | REQUIRED; MUST be used once and only once |
| Definition | Abstract Type used as the Type of the Report element which can then be used to declare an EDXL-SitRep message to be one of the five (5) predefined EDXL-SitRep "Reports" such as "FieldObservation". |
| Comments | <ul style="list-style-type: none">See Section 3.1.1 for diagrammatic representation of the relationship between IReport and Report |
| Constraints | IReport MUST NOT be used directly in any EDXL-SitRep message of any Report Type. It is part of the XML Schema against which implementations need to be validated. |
| Source | SitRep Use Cases |
| Requirements Supported | Message-Types |

4.3 EDXLSitRepRoot Elements

The EDXL-SitRep message contains a set of core data which was transcribed from the Root element. In addition, it contains an element named "Report" of abstract type "IReport" where IReport can be instantiated by any one of the five (5) separate additional data structures, each of which is needed to build one of the five (5) specialized EDXL-SitReps. Throughout this data dictionary, the concept of each of the five (5) specialized SitReps is referred to as an IReport "Report".

The EDXLSitRepRoot element is the top level element of this specification, and contains the set of shared message elements used across the five (5) predefined EDXL-SitRep "Reports". EDXLSitRepRoot elements identify and describe the EDXL-SitRep message with information such as MessageID, PreparedBy and ForTimePeriod

The five (5) distinct "Reports", defined in Section 3.3.2 through 3.3.6, provide a method to componentize the overall EDXL-SitRep standard into logical groups of elements that support a common purpose.

For example, the 'Casualty and Illness Summary' is focused only on rollup or aggregation of numbers and percentages representing human casualties by categories such as fatalities, hospitalized or missing.

| Element | MessageID |
|------------------------|--|
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | Each EDXL-SitRep contains an identifier that uniquely identifies the EDXL-SitRep message / Report. |
| Comments | <ul style="list-style-type: none"> The EDXL Distribution Element contains the "Distribution ID", which identifies the container for the distribution message information. MessageID is the same element as used in EDXL-RM |
| Constraints | <ul style="list-style-type: none"> Used in EDXLSitRepRoot element / container |
| Source | SitRep Use Cases, EDXL-RM |
| Requirements Supported | MessageID |

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| Element | PreparedBy |
|------------------------|---|
| Type | ct:PersonTimePair |
| Usage | REQUIRED [1..1] |
| Definition | The person name and/or PositionTitle (ICSPositionTitle when an Incident Management Organization is in place) of the person preparing the information that makes up the message / report and the associated DateTime that this report was prepared |
| Comments | Note: The PreparedBy/Reporter/Originator may be different from the sender. Synonyms found in the NIMS SitRep: "Originator", "Reporter" |
| Constraints | <ul style="list-style-type: none"> Used in EDXLSitRepRoot element / container |
| Source | ICS-209 |
| Requirements Supported | Contact-Role-Enumerations, Report-DateTime-Information |

588

| Element | AuthorizedBy |
|------------|--|
| Type | ct:PersonTimePair |
| Usage | REQUIRED [1..1] |
| Definition | The person name and/or PositionTitle (ICSPositionTitle when an Incident management Organization is in place) of the person formally authorizing the information that makes up the message / report and the associated DateTime that this report was prepared |
| Comments | When an incident Management Organization is in place, this would be the Planning |

| | |
|------------------------|--|
| | Section Chief or Incident Commander at the incident. On other incidents, it could be the jurisdiction's dispatch center manager, organizational administrator, or other manager. |
| Constraints | <ul style="list-style-type: none"> Used in EDXLSitRepRoot element / container |
| Source | ICS-209 |
| Requirements Supported | Contact-Role-Enumerations, Report-DateTime-Information |

589

| | |
|------------------------|--|
| Element | ReportPurpose |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | States the purpose of this Situation Report. May contain description information regarding why the report is being sent and required response or action, if any. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | Found in some local incident/situation reports. |
| Requirements Supported | Report Purpose |

590

| | |
|------------------------|---|
| Element | ReportNumber |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | A unique number for reporting an incident or event, used to identify each new or updated report instance. Used to support report tracking. |
| Comments | <p>EXAMPLE:</p> <ul style="list-style-type: none"> ReportNumber is "12345" ReportVersion is "Initial" (of Report # 12345) |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | ICS-209 |
| Requirements Supported | Report-Number-Version |

591

| | |
|----------------|----------------------|
| Element | ReportVersion |
|----------------|----------------------|

| | |
|------------------------|---|
| Type | ct:ValueList |
| Usage | REQUIRED [1..1] |
| Definition | <p>This indicates the current version of the specific SitRep MessageReportType report being submitted from the same source ("AuthorizedBy") for the same incident or event. If only one SitRep will be submitted, indicate BOTH "Initial" and "Final".</p> <p>Default Code Values:</p> <ul style="list-style-type: none"> ▪ "Initial" - This is the first transmission of this kind of Report from the same source ("AuthorizedBy") for this incident or event. The "Initial" Report MAY contain the "OriginatingMessageID". ▪ "Update" - A subsequent SitRep MessageReportType from the same source ("AuthorizedBy") for the same incident or event. ▪ "Final" - The last of this specific SitRep MessageReportType to be submitted from same source ("AuthorizedBy") for the same incident or event. A SitRep may also have a ReportVersion of "Final" if they become part of a new Complex Incident (although this is rare) |
| Comments | |
| Constraints | <ul style="list-style-type: none"> ▪ Used in SitRep element / container |
| Source | ICS-209 |
| Requirements Supported | Report-Number-Version |

592

593 **Note:** The <dateTimeSent> element required in the EDXL-DE specification used to distribute any given
594 EDXL-SitRep message satisfies the requirements for "SentDateTime" in the EDXL Situation Reporting
595 v.1.0 Specification.

596

| | |
|----------------|--|
| Element | ForTimePeriod |
| Type | ct:TimePeriod |
| Usage | REQUIRED [1..1] |
| Definition | <p>ForTimePeriod designates the period of time between the FromDateTime and the ToDateTime elements whose definitions immediately follow this element definition.</p> <p>ForTimePeriod is used by the ReportNumber and ReportVersion elements whose definitions immediate precede this element definition..</p> <p>ForTimePeriod SHOULD include all of the time since the last SitRep "ReportNumber"/"ReportVersion" of this type was submitted.</p> <p>However, if this report is the originating EDXL-SitRep message for an incident, it should cover the time lapsed since the incident or event started.</p> <p>The ForTimePeriod element MUST include one operational period, but MAY also include more than one Operational Period based on agency/organizational reporting requirements.</p> <p>All elements of information contained in a given EDXL-SitRep message report type always apply only to the ForTimePeriod specified by the "FromDateTime" and the</p> |

| | |
|------------------------|--|
| | "ToDateTime". |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | ICS 203, 207, 209, 215 |
| Requirements Supported | Report-DateTime-Information |

597

| | |
|------------------------|--|
| Element | ReportTitle |
| Type | ct:EDXLString |
| Usage | OPTIONAL [0..1] |
| Definition | ReportTitle is the designation of a more specific title for the SitRep report other than or in addition to the title given as the value of the SitRep:"Report element. |
| Comments | Used to give a more particular title to an incident |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | ICS-209 |
| Requirements Supported | Report-Number-Version |

598

| | |
|------------------------|--|
| Element | IncidentID |
| Type | ct:EDXLString |
| Usage | REQUIRED; MAY be used more than once [1..*] |
| Definition | The name or other identifier of the incident to which the current message refers, that has been assigned to the incident by an authorized agency based on current guidance. The incident number may vary by jurisdiction and profession (e.g. law enforcement vs. Fire). The incident number may be a computer aided dispatch number, an accounting number, a disaster declaration number, or a combination of the state, unit/agency, and dispatch system number. "Unknown" is an acceptable value. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | ICS 209 ("IncidentNumber") |
| Requirements Supported | Incident-Identifier |

| Element | IncidentLifecyclePhase |
|------------------------|---|
| Type | ct:ValueList [0..*] |
| Usage | OPTIONAL; MAY be used more than once |
| Definition | A code specifying the incident response lifecycle stage currently in effect |
| Comments | |
| Constraints | <ul style="list-style-type: none"> ▪ Default enumerated values include: <ul style="list-style-type: none"> ○ Preparedness ○ Response ○ Mitigation ○ Recovery ▪ Used in SitRep “SituationInformation” Report Type |
| Source | |
| Requirements Supported | IncidentLifecyclePhase |

| Element | OriginatingMessageID |
|-------------|---|
| Type | ct:EDXLString |
| Usage | OPTIONAL [0..1] |
| Definition | Each EDXL-SitRep message contains a MessageID that uniquely identifies the message. OriginatingMessageID identifies the MessageID of the first message in a message sequence to which the message belongs. If the message is itself the originating message in a new sequence, OriginatingMessageID will have the same value as the MessageID element. In some other cases, the OriginatingMessageID element will have the same value as the PrecedingMessageID element. The OriginatingMessageID value essentially forms a unique identifier for a group of related messages, linking them together so that the relationship between the messages is made explicit and unambiguous (and threads of messages can be tracked by software). |
| Comments | <ul style="list-style-type: none"> ▪ Used to keep track of a string of related SitReps; especially given the fact that different jurisdictions may refer to the same incident or event in different ways and even define those different ways. ▪ This MessageID is a SitRep MessageID, not an EDXL-Distribution Element MessageID. ▪ Re-uses the same element as used in EDXL-RM ▪ Should be included if known |
| Constraints | <ul style="list-style-type: none"> ▪ Used in SitRep element / container |

| | |
|------------------------|-----------|
| Source | |
| Requirements Supported | MessageID |

601

| | |
|------------------------|--|
| Element | PrecedingMessageID |
| Type | ct:EDXLString |
| Usage | OPTIONAL; MAY be used once and only once. [0..*] |
| Definition | The PrecedingMessageID identifies the message that immediately preceded the current message in the message sequence. This MessageID is a SitRep MessageID not an EDXL-Distribution Element MessageID. |
| Comments | <ul style="list-style-type: none"> Typically SitReps are sequential from a given sender or authoritative source, but parallel SitReps will occur from several senders or sources. This is particularly important given the fact that different jurisdictions may refer to the same incident or event in different ways and even define them differently. |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | |
| Requirements Supported | MessageID |

602

| | |
|----------------|--|
| Element | Urgency |
| Type | ct:ValueKey |
| Usage | OPTIONAL [0..1] |
| Definition | The code denoting the importance and necessity of the SitRep message |
| Comments | <ul style="list-style-type: none"> The “Urgency”, “Severity” and “ReportConfidence” elements collectively distinguish less emphatic from more emphatic messages. Code Values (defaults) inherited from CAP 1.2 <ul style="list-style-type: none"> “Immediate” - Responsive action SHOULD be taken immediately. “Expected” - Responsive action SHOULD be taken soon (within next hour). “Future” - Responsive action SHOULD be taken in the near future. “Past” - Responsive action is no longer required. “Unknown” - Urgency not known. |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | SitRep Use Cases, Common Alerting Protocol (CAP) |

| | |
|------------------------|---------|
| Requirements Supported | Urgency |
|------------------------|---------|

603

| | |
|------------------------|--|
| Element | ReportConfidence |
| Type | ct:ValueKey |
| Usage | REQUIRED [1..1] |
| Definition | The code denoting the level of confidence or sureness in the content of the EDXL-SitRep message, endorsed by the officer in the “AuthorizedBy” role. |
| Comments | <ul style="list-style-type: none"> • The “Urgency”, “Severity” and “ReportConfidence” elements collectively distinguish less emphatic from more emphatic messages. ▪ Default enumerated values include: <ul style="list-style-type: none"> ○ “Highly Confident” – Topmost level of confidence. ○ “Somewhat Confident” – Medium level of confidence. ○ “Unsure” – Low level of confidence. ○ “No confidence” – Lack of confidence – Can be used to support cancellation of previous report |
| Constraints | <ul style="list-style-type: none"> ▪ Used in SitRep element / container |
| Source | SitRep Use Cases, Common Alerting Protocol (CAP) |
| Requirements Supported | ReportConfidence |

604

| | |
|----------------|---|
| Element | Severity |
| Type | ct:ValueKey |
| Usage | REQUIRED [1..1] |
| Definition | The code denoting the severity of the subject incident or event. |
| Comments | <ul style="list-style-type: none"> ▪ The “Urgency”, “Severity” and “ReportConfidence” elements collectively distinguish less emphatic from more emphatic messages. ▪ Re-uses the same element as used in EDXL CAP 1.2 ▪ Default enumerated values inherited from CAP 1.2 include: <ul style="list-style-type: none"> ○ “Extreme” - Extraordinary threat to life or property. ○ “Severe” - Significant threat to life or property. ○ “Moderate” - Possible threat to life or property. ○ “Minor” - Minimal threat to life or property. ○ “Unknown” - Severity unknown |

| | |
|------------------------|--|
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | SitRep Use Cases (not found in research, ICS or DHS forms) |
| Requirements Supported | Severity |

605

| | |
|------------------------|--|
| Element | ReportingLocation |
| Type | ct:EDXLLocationType |
| Usage | OPTIONAL [0..1] |
| Definition | A structure representing the physical location and/or organization associated with the "PreparedBy" role, or associated with the location that the Field Observation is taking place, i.e. "where I am". |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | |
| Requirements Supported | Incident-Resource-Operational-Planning, Incident-Resource-Commitment-Summary |

606

| | |
|------------------------|---|
| Element | ActionPlan |
| Type | ct:EDXLString |
| Usage | OPTIONAL [0..1] |
| Definition | General description of what the officer in the "Prepared By" role needs or expects, or a description of intended next step(s) of Incident Command. ActionPlan is assumed to relate to the next operational period unless paired with a "StandardTimeFrame" defined by the user. |
| Comments | Synonyms of ActionPlan include "Way Forward," "Next Steps," "Moving On" |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | National Incident management System (NIMS) |
| Requirements Supported | Action-Plan |

607

| | |
|----------------|--------------------|
| Element | NextContact |
| Type | ct:EDXLDateTime |

| | |
|------------------------|---|
| Usage | OPTIONAL [0..1] |
| Definition | DateTime of next contact or report planned by the "Prepared By" role to set expectations for provision or receipt of updated or additional information. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep element / container |
| Source | NIMS |
| Requirements Supported | Next-Contact |

608

| | |
|------------------------|--|
| Element | Report |
| Type | IRReport |
| Usage | REQUIRED; MUST be used once and only once [1..1] |
| Definition | Report is the element used to create an instance of the IRReport abstract type and though it to specify the EDXL-SitRep Report Type of the message in which it is used. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Report MUST declare one of the five specific EDXL-SitRep Report Types: <ul style="list-style-type: none"> FieldObservation SituationInformation ResponseResourcesTotals CasualtyAndIllnessSummary ManagementReportingSummary |
| Source | Used in the SitRep element / container |
| Requirements Supported | |

609

610 FieldObservation Report Type

611 The FieldObservation Report provides a basic Report Type intended for fast and flexible observation in
612 the field by emergency response & management professionals, providing a collection of facts usually
613 detected by human parties acting as mobile sensors and presented using plain text. Input sources will
614 generally be mobile phones and other mobile devices.

615 The purpose of a Field Observation is to offer a standardized method of providing "on the ground" input
616 from responders in the field. The intent is standardized receipt of Field Observations, which then may
617 undergo verification and/or integration into formal Situation Reporting.

618

| | |
|------------------------|--|
| Element | FieldObservation |
| Type | EDXL-SitRep Report Type |
| Usage | OPTIONAL; MAY be used once and only once [0..1] |
| Definition | FieldObservation refers to directly observed phenomena in the field reported by the actual witness to the events reported in this EDXL-SitRep report message type. |
| Comments | <p>This is an intentionally general report type meant to be reported as immediately and directly as possible.</p> <p>Speculation, even if based on experience is discouraged in this report type, so discussion of the past causes and future development are not specifically included.</p> <p>FieldObservation is intended to be quick and brief to expedite the quickest possible appropriate response.</p> |
| Constraints | Used in EDXL-SitRep FieldObservation report type. |
| Source | Research, Experience |
| Requirements Supported | Flexibility |

619

| | |
|------------------------|---|
| Element | ObservationLocation |
| Type | ct:EDXLLocationType |
| Usage | REQUIRED [1..1] |
| Definition | A structure and/or textual description representing the physical location of the situation being observed, as opposed to the ReportingLocation which represents the location of the observer or reporter. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Needs the highest degree of accuracy possible given the limitations of the situation. Used in EDXL-SitRep FieldObservation report type |
| Source | |
| Requirements Supported | Supporting Elements: Location Information |

620

| | |
|----------------|-----------------------|
| Element | ImmediateNeeds |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |

| | |
|------------------------|--|
| Definition | A textual description of any pressing needs that the observer feels must be dispatched or provided urgently. |
| Comments | <ul style="list-style-type: none"> Intended to give advance notice of Resource Needs. Not intended to replace EDXL-RM, |
| Constraints | |
| Source | |
| Requirements Supported | Coordination-with-EDXL-RM, Response-Resource-Information |

621

| | |
|------------------------|--|
| Element | ImmediateNeedsCategory |
| Type | ct:ValueList |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | A category or classification of any pressing needs that the observer feels must be dispatched or provided urgently. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Default enumerated values include: <ul style="list-style-type: none"> Emergency Medical Services Fire and Hazardous materials Incident management Law Enforcement Mass Care Public health Public Works Search and Rescue CBRNE |
| Source | |
| Requirements Supported | Coordination-with-EDXL-RM, Response-Resource-Information |

622

| | |
|----------------|---|
| Element | ObservationText |
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |
| Definition | Description of the situation being observed and reported. |

| | |
|------------------------|---|
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Coordination-with-EDXL-RM, Response-Resource-Information |

623

624 4.4 SituationInformation Report Type

625 The SituationInformation Report Type identifies and describes the incident with which the message is
626 concerned.

627 SituationInformation is also supported by the following re-usable elements found in the Supporting
628 Elements Model (shown in Section 3.1)

- 629 ▪ Remarks
- 630 ▪ LocationSize (LocationInformation)
- 631 ▪ edxl-gsf [XML Structure] (LocationInformation)
- 632 ▪ edxl-ciq [XML Structure] (ContactInformation)

633 **Note:** The combination of edxl-gsf & edxl-ciq contain a set of re-usable elements such as
634 ContactDescription, ContactRole, ContactLocation, EDXLLocationType, and
635 AdditionalContactInformation.

636

| | |
|------------------------|---|
| Element | PrimaryIncidentInformation |
| Type | sr:IncidentInfoType |
| Usage | OPTIONAL [0..1] |
| Definition | The PrimaryIncidentInformation identifies and describes the initial incident. |
| Comments | |
| Constraints | ▪ Used in SitRep “Situation Information” Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Identifier |

637

| | |
|----------------|---|
| Element | SubIncidentInformation |
| Type | sr:IncidentInfoType |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | The SubIncidentInformation identifies and describes any subincident that occurs during, |

| | |
|------------------------|--|
| | after, as a result of the initial incident or which is clearly connected to the initial incident but which is significant enough to require a separate report. |
| Comments | |
| Constraints | ▪ Used in SitRep “Situation Information” Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Identifier |

638

| | |
|------------------------|--|
| Element | SubIncident |
| Type | sr:IncidentInfoType |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | The SubIncidentInformation identifies and describes any subincident that occurs during, after, as a result of the initial incident or which is clearly connected to the initial incident but which is significant enough to require a separate report. |
| Comments | |
| Constraints | ▪ Used in SitRep “Situation Information” Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Identifier |

639

640 4.4.1 IncidentInfoType Complex Type

641 IncidentInfoType elements identify the key items common to all incidents such as Name, Type,
642 Complexity, etc.

643

| | |
|----------------|--|
| Element | IncidentName |
| Type | [xsd:string] |
| Usage | REQUIRED; MAY be used more than once [1..*] |
| Definition | The name assigned to the incident (often by the Incident Commander or lead Agency). |
| Comments | ▪ Situation Information MUST carry one or multiple incident names. A formally declared incident may have a name which can change during the incident lifespan. Previous names MUST be carried. In addition, the same incident is sometimes |

| | |
|------------------------|---|
| | assigned different names by different jurisdictions, organizations or agencies. These multiple incident names MUST be carried. |
| Constraints | <ul style="list-style-type: none"> Used in SitRep "SituationInformation" Report Type |
| Source | ICS 201, 203, 207, 209, 215 |
| Requirements Supported | Incident-Name; Incident-Identifier |

644

| | |
|------------------------|---|
| Element | IncidentType |
| Type | ct:ValueList |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | General type or category of Incident. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Default enumerated values inherited from EDXL-CAP CategoryType include: <ul style="list-style-type: none"> <i>Geo</i> - Geophysical (inc. landslide) <i>Met</i> - Meteorological (inc. flood) <i>Safety</i> - General emergency and public safety <i>Security</i> - Law enforcement, military, homeland and local/private security <i>Rescue</i> - Rescue and recovery <i>Fire</i> - Fire suppression and rescue <i>Health</i> - Medical and public health <i>Env</i> - Pollution and other environmental hazard <i>Transport</i> - Public and private transportation <i>Infra</i> - Utility, telecommunication, other non-transport infrastructure <i>CBRNE</i> - Chemical, Biological, Radiological, Nuclear or High-Yield Explosive threat or attack <i>Other</i> - Other events Used in SitRep "SituationInformation" Report Type |
| Source | DHS InitialSitRep, DHS Spot Report, ICS-209 |
| Requirements Supported | Incident-Type |

645

| | |
|----------------|---------------------------|
| Element | IncidentComplexity |
| Type | ct:ValueList |
| Usage | OPTIONAL [0..1] |

| | |
|------------------------|---|
| Definition | Information indicating the complexity, complications, level of difficulty or cross-profession / jurisdiction / organization aspects involved in addressing or responding to the incident. |
| Comments | ICS-209 term = "Incident Type or Complexity Level" |
| Constraints | <ul style="list-style-type: none"> ▪ Default enumerated values include: Defaults: <ul style="list-style-type: none"> ○ "Complex" – Public / Professional preparedness is low, Coordination Complexity and involvement is high (local, regional, state and national) ○ "Moderate-Complex" – Public / Professional preparedness is moderate-high, Coordination Complexity and involvement is high (local, regional, state, possibly national). ○ "Moderate" – Public / Professional preparedness is high, Coordination Complexity and involvement is moderate (local, regional) ○ "Low" - Public / Professional preparedness is high, Coordination Complexity and involvement is low (local only) ▪ Used in SitRep "Situation Information" Report type |
| Source | ICS 209, practitioners |
| Requirements Supported | Incident-Complexity |

646

| | |
|------------------------|--|
| Element | IncidentStartDateTime |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The Date and Time the Incident started or was first observed. |
| Comments | <ul style="list-style-type: none"> ▪ Always paired with the element "Estimate" (Boolean) to indicate whether the Datetime is estimated vs. known. <ul style="list-style-type: none"> ○ See Appendix Appendix C: Time Elements |
| Constraints | <ul style="list-style-type: none"> ▪ Used in SitRep "Situation Information" element / container |
| Source | ICS 209 |
| Requirements Supported | Incident-Start-DateTime |

647

| | |
|----------------|-------------------------------|
| Element | IncidentGeographicSize |
| Type | [xsd:unsignedLong] |
| Usage | OPTIONAL [0..1] |

| | |
|---|---|
| Definition | The two-dimensional geographic footprint of the incident measured in meters squared, providing the overall size of the incident in terms of geography. |
| Comments | <ul style="list-style-type: none"> May be used with the common element "Estimate" to indicate whether the size is estimated or known. May be used with the common element "Remarks" |
| <ul style="list-style-type: none"> Constraints | <ul style="list-style-type: none"> Used in SitRep "Situation Information" Report Type |
| Source | |
| Requirements Supported | Incident-Size |

648

| | |
|------------------------|--|
| Element | IncidentLocation |
| Type | ct:EDXLLocationType |
| Usage | REQUIRED [1..1] |
| Definition | The physical location of the incident applying reusable EDXLLocationType components to express location information using a variety of options including geopolitical (e.g. addresses) and geospatial (e.g. lat/long). |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in SitRep "Situation Information" Report Type. |
| Source | ICS-209 |
| Requirements Supported | Incident-Location |

649

| | |
|----------------|--|
| Element | DisasterInformation |
| Type | sr:DisasterInformation |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | <p>An XML structure containing the following three required elements:</p> <ul style="list-style-type: none"> DisasterName DisasterDeclarationAuthority DisasterDeclarationDateTime <p>DisasterInformation provides information about any disaster(s) that are associated with this incident</p> |
| Comments | |

| | |
|------------------------|---|
| Constraints | ▪ Used in SitRep “SituationInformation” Report Type |
| Source | SitRep Use Cases |
| Requirements Supported | Incident-Identifier |

650

| | |
|------------------------|---|
| Element | JurisdictionInformation |
| Type | sr:Jurisdiction |
| Usage | REQUIRED; MAY be used more than once (one for each Staging Area) |
| Definition | The physical location of each IncidentStagingArea applying reusable EDXLLocationTypecomponents to express location information using a variety of options including geopolitical (e.g. addresses) and geospatial (e.g. lat/long). Part of the IncidentStaging XML structure.and always paired with IncidentStagingArea |
| Comments | |
| Constraints | ▪ Used in SitRep “Situation Information” Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Staging-Areas |

651

| | |
|------------------------|--|
| Element | IncidentStagingAreaLocation |
| Type | ct:EDXLLocationType |
| Usage | OPTIONAL; MAY be used more than once (one for each Staging Area) [1..*] |
| Definition | The physical location of each IncidentStagingArea applying reusable EDXLLocationType components to express location information using a variety of options including geopolitical (e.g. addresses) and geospatial (e.g. lat/long). Part of the IncidentStaging XML structure.and always paired with IncidentStagingArea |
| Comments | |
| Constraints | ▪ Used in SitRep “Situation Information” Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Staging-Areas |

652

653

4.4.2 DisasterInformation Complex Type

| Element | DisasterName |
|------------------------|--|
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |
| Definition | The name assigned to the disaster that is associated with this incident by the DisasterDeclarationAuthority. Part of the DisasterInformation XML structure. |
| Comments | |
| Constraints | <ul style="list-style-type: none">Used in SitRep "SituationInformation" Report Type |
| Source | SitRep Use Cases |
| Requirements Supported | Incident-Identifier |

654

| Element | DisasterDeclarationAuthority |
|------------------------|--|
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |
| Definition | The organization, agency or authority that officially declared the disaster that is associated with this incident. Part of the DisasterInformation XML structure. |
| Comments | |
| Constraints | <ul style="list-style-type: none">Used in SitRep "SituationInformation" Report Type |
| Source | SitRep Use Cases |
| Requirements Supported | Incident-Identifier |

655

| Element | DisasterDeclarationDateTime |
|------------|---|
| Type | ct:EDXLDatetime |
| Usage | REQUIRED [1..1] |
| Definition | The Date and Time a formal disaster is declared by an authority |
| Comments | |

| | |
|------------------------|--|
| Constraints | ▪ Used in SitRep "Situation Information" Report Type |
| Source | SitRep Use Cases |
| Requirements Supported | Report-DateTime-Information |

656

657 4.5 ResponseResourcesTotals Report Type

658 The ResponseResourcesTotals Report Type contains elements to identify resource needs and resources
659 to meet those needs. These elements are used to manage and coordinate resource decisions. For each
660 Resource "TypeCategoryKind" a "Count" MUST be present.

661 Elements from the following EDXL-RM container elements MAY be used as input to
662 ResponseResourcesTotals Report Types.

- 663 ▪ Resource
- 664 ▪ Ownership Information
- 665 ▪ Resource Information
- 666 ▪ Schedule Information with all ScheduleTypes
- 667 ▪ Assignment Information
- 668 ▪ Assignment Instructions

669 Response Resource contains zero to many ResponseResource Elements of Type
670 ResponseResourceType

671 For each ResponseResource element of Type ResponseResourceType, one and only one of each
672 ResponseResourceDetail Element of Type ResponseResourceDetailType is allowed.

673 Counts contained in the Response Resource Detail are provided for each Resource / Resource
674 Type/Category/Kind supplied by an agency within a Branch, Division or Group.

675 **EXAMPLE:** The following provides a partial example of resource counts (and totals), but does not
676 include all elements. Note that EDXL-SitRep carries resource count information; however totals are not
677 carried by this structure. Totals are to be calculated by end applications.

| Branch/Div./Group -1 | | | | | | | | |
|-----------------------|-------------------------------------|----------------------------|----------|--------------------------------------|-----------|---------|--------------|-----------|
| Agency / Organization | Resource Name | Resource Type / Cat / Kind | Required | # Personnel mandated w/ Rqd resource | Committed | On-Hand | Still Needed | Requested |
| FEMA | Mobile Field Kitchen - Food & Water | Type II | 3 | 2 | 3 | 0 | 3 | 3 |
| FEMA | Shelter Management Team | Type I | 2 | 6 | 1 | 0 | 1 | 2 |
| FEMA | Special-Needs Shelter | Type III | 2 | 1 | 0 | 0 | 2 | 2 |
| State of TN | Water Truck | Type II | 1 | 1 | 1 | 1 | 0 | 0 |
| State of TN | Crew Transport | Type II | 2 | 1 | 2 | 2 | 0 | 0 |
| State of TN | Debris Management Section | Type I | 2 | 8 | 0 | 0 | 2 | 0 |
| State of TN | Dozer (Bulldozer; Track Dozer) | Type II | 2 | 1 | 1 | 1 | 1 | 1 |
| | TOTAL | | 14 | 20 | 8 | 4 | 9 | 8 |

678

| | |
|------------|--|
| Element | ResourceTotal |
| Type | sr:ResponseResourceTotals |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | The current total count (available inventory) of a given resource. |

| | |
|------------------------|-------------------------------|
| | |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Response-Resource-Information |

679

| | |
|------------------------|---|
| Element | OrganizationAndAssignments |
| Type | sr:CommandOrganization |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | IncidentCommand Structure documentation and Assignments |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Command-Structure, Incident-Command-Organization |

680

681 4.5.1 ResponseResourceTotals Complex Type

682

| | |
|------------------------|---|
| Element | BranchDivisionGroup |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | Name of an Incident Command Branch, Division, or Group, or their leadership title or name, or the name of a location (such as a “staging area”) committing each Type / Category or Kind of resource |
| Comments | <ul style="list-style-type: none"> Supported by the edxl-ciq [XML Structure] |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep ResponseResourceTotals Report Type. |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

683

| Element | Resource |
|------------------------|---|
| Type | sr:ResourceCount |
| Usage | REQUIRED; MAY be used more than once [1..*] |
| Definition | Specific individual named resource, |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | |

684

685 4.5.2 ResourceStatus Complex Type

686 Resource Statuselements provide inventory, deployment and availability information.

| Element | InventoryRefreshDateTime |
|------------------------|---|
| Type | ct:EDXLDateTime |
| Usage | REQUIRED [1..1] |
| Definition | The DateTime at which inventory records were last updated with current values. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep ResponseResourceTotals Report Type. |
| Source | |
| Requirements Supported | Incident-Resouce-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

687

688

689

| Element | Availability |
|------------------------|---|
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Availability provides information on whether or not a resource is available, and any incidental information not otherwise provided that relates to resource availability. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Resouce-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

690

| Element | DeploymentStatus |
|------------------------|---|
| Type | ct:ValueListType |
| Usage | OPTIONAL [0..1] |
| Definition | The DeploymentStatus element is a value corresponding to the value for a ValueListType supplied by the resource provider. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Resouce-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

691

692

693

| Element | DeploymentStatusDefault |
|------------------------|--|
| Type | ct:DeploymentStatusDefaultType |
| Usage | OPTIONAL [0..1] |
| Definition | <p>Default enumerated values</p> <ul style="list-style-type: none"> ○ Available ○ ConditionallyAvailable ○ Enroute ○ AtHospital ○ NotAvailable ○ OnScene ○ Overdue ○ AvailablebyPager ○ InQuarters ○ OntheRadio ○ Transporting ○ WaitingResponse |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Resouce-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

694

695 4.5.3 ResourceCount Complex Type

696

| Element | AgencyOrganization |
|------------|---|
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | <p>The Agency or Organization contributing the resource(s) to the incident, perhaps through mutual aid agreements.</p> <p>An agency is a type of organization, which is a division of government with a specific function, or a nongovernmental organization (e.g., private contractor, business, etc.) that offers a particular kind of assistance. In ICS, agencies are defined as jurisdictional (having statutory responsibility for incident mitigation) or assisting and/or cooperating (providing resources and/or assistance)</p> |

| | |
|------------------------|--|
| Comments | <ul style="list-style-type: none"> Supported by the edxl-ciq [XML Structure] |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep ResponseResourcesTotals Report Type. |
| Source | ICS-209, 215j |
| Requirements Supported | Incident-Resource-Commitment; Incident-Resource-Operational-Planning; Incident-Command-Organization |

697

| | |
|------------------------|--|
| Element | ResourceName |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | A name or title of the resource used for identification and tracking. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep ResponseResourcesTotals Report Type. |
| Source | ICS 209 |
| Requirements Supported | Response Resources-Information |

698

| | |
|----------------|---|
| Element | ResourceTypeCategoryKind |
| Type | ct:ValueList |
| Usage | OPTIONAL [0..1] |
| Definition | Short reference to the name of the resource type, category or kind associated with the resource name. |
| Comments | <ul style="list-style-type: none"> Similar resources may be grouped together for this purpose (for example, do not list every type of fire engine –rather, it may be advisable to list two generalized types of engines, such as “structure fire engines” and “wildland fire engines” with totals for each). Examples: <ul style="list-style-type: none"> Fixed wing cargo aircraft Mobile Field Kitchen / Type II / Food & Water “Decontamination” unit Type 1 Fire Engine Type 4 Helicopter |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep ResponseResourcesTotals Report Type. |

| | |
|------------------------|--------------------------------|
| Source | ICS 209 |
| Requirements Supported | Response Resources-Information |

699

| | |
|------------------------|---|
| Element | ResourceDetail |
| Type | sr:ResponseResourcesDetail |
| Usage | OPTIONAL [0..1] |
| Definition | Summary information, often rendered in “counts” about resources involved in emergency operations. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Response-Resource-Information |

700

| | |
|------------------------|---|
| Element | IsSufficient |
| Type | [xsd:boolean] |
| Usage | OPTIONAL [0..1] |
| Definition | A “yes” or “no” value indicating whether or not a given resource is sufficient to fill current or projected requirements. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Response-Resource-Information |

701

702 4.5.4 ResponseResourcesTotalsDetail Complex Type

703 The “ResponseResourcesDetail” Report Type package contains counts for each specific type, category
704 or kind of responding resource required, committed, on-hand, requested or still needed; in order to
705 manage and coordinate resource decisions. IF “ResponseResourceTotals” is used, at least one
706 “ResponseResourcesTotalsDetail” is Required, AND a value entered for at least one associated element
707 (i.e. at least one value included such as “ResourceRequiredCount”)

- 708 ▪ Response Resource contains zero to many ResponseResource Elements of Type
709 ResponseResourceType

- 710 ▪ For each ResponseResource element of Type ResponseResourceType, one and only one of each
711 ResponseResourceDetail Element of Type ResponseResourceDetailType is allowed.
- 712 ▪ “Response Resource Detail” also utilizes the following supporting elements:
713 ○ EDXLLocationType [XML Structure]
714

| Element | ResourcePersonnelCount |
|------------------------|--|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | The personnel associated with or required to operate each required resource by “Type/Category/Kind” provided by an “Agency or Organization |
| Comments | |
| Constraints | ▪ Used in EDXL-SitRep ResponseResourcesTotals Report Type. |
| Source | |
| Requirements Supported | Incident-Resource-Commitment-Summary |

715

| Element | UnassignedResourcePersonnel |
|------------------------|---|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | The number of additional individuals (or individuals on overhead) that are not assigned to a specific resource by agency or organization. |
| Comments | |
| Constraints | ▪ Used in EDXL-SitRep ResponseResourcesTotals Report Type |
| Source | |
| Requirements Supported | Incident-Resource-Commitment-Summary |

716

717

| Element | ResourceRequiredCount |
|------------|---|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [1..1] |
| Definition | The number of resources by “Type/Category/Kind” provided by an “Agency or |

| | |
|------------------------|---|
| | Organization”, required to meet a specified need or work assignment. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 209 |
| Requirements Supported | Incident-Resource-Commitment-Summary |

718

| | |
|------------------------|--|
| Element | ResourceCommittedCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [1..1] |
| Definition | The number of resources by “Type/Category/Kind” provided by an “Agency or Organization”, committed to meet the specified need or work assignment. “Committed” refers to an obligation or confirmation from the resource supplier that resource has been allocated to this resource request or order, but has not yet been provided and is not yet “on-hand”. |
| Comments | <ul style="list-style-type: none"> EDXL-RM message data may be used to provide transaction information which may be totaled to calculate this count |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 209 |
| Requirements Supported | Incident-Resource-Commitment-Summary |

719

| | |
|----------------|--|
| Element | ResourceOnHandCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [1..1] |
| Definition | The number of resources by “Type/Category/Kind” provided by an “Agency or Organization”, currently on-hand to meet the specified need or work assignment. “On-hand” refers to a resource that has been provided, has arrived and is available on site to meet the specified need or work assignment. |
| Comments | <ul style="list-style-type: none"> Some ICS forms refer to this as “Resources-Have” EDXL-RM message data may be used to provide transaction information which may be totaled to calculate this count |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |

| | |
|------------------------|--|
| Requirements Supported | Incident-Resource-Operational-Planning |
|------------------------|--|

720

| | |
|------------------------|--|
| Element | ResourceStillNeededCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [1..1] |
| Definition | The number of resources by “Type/Category/Kind” provided by an “Agency or Organization”, still needed to meet a specified need or work assignment. “Needed” refers to resources that may or may not be requested or committed; but are not yet “on-hand” |
| Comments | Defined as “ResourceOnHandCount” subtracted from the “ResourceCommittedCount” |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

721

| | |
|------------------------|---|
| Element | ResourceRequestedCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [1..1] |
| Definition | The number of resources by “Type/Category/Kind” provided by an “Agency or Organization”, that has been requested or ordered in order to meet a specified need or work assignment. |
| Comments | <ul style="list-style-type: none"> EDXL-RM message data may be used to provide transaction information which may be totaled to calculate this count |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

722

| | |
|----------------|---|
| Element | DateTimeOrdered |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The Date/Time that the resource was requested or ordered in order to fill the specified |

| | |
|------------------------|---|
| | need or work assignment. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 201 |
| Requirements Supported | Incident-Resource-Operational-Planning |

723

| | |
|------------------------|---|
| Element | RequestedArrival |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The DateTime when the "requested" / "ordered" resource is requested to arrive at the "ReportingLocation" (i.e. When the resource is needed). |
| Comments | <ul style="list-style-type: none"> ICS uses the term "delivery" vs. "arrival". "Arrival" is used here because this applies to Human Resources also <p>Note: In EDXL-RM, "RequestedArrival" is an enumerated value of element "ScheduleType"</p> |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

724

| | |
|------------------------|---|
| Element | EstimatedArrival |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The DateTime when the "requested" / "ordered" resource is expected to arrive at its "ReportTo" location. |
| Comments | <p>Note: In EDXL-RM, "EstimatedArrival" is an enumerated value of element "ScheduleType"</p> |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

725

| | |
|------------------------|---|
| Element | ReportToLocation |
| Type | ct:EDXLLocationType |
| Usage | OPTIONAL [0..1] |
| Definition | The location where the resources are to report or be delivered (e.g. "IncidentStagingArea", "IncidentLocation"). |
| Comments | EDXL-RM message data may be used to provide ReportToLocation information (See EDXL-RM "ScheduleInformation" Element). |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

726

| | |
|------------------------|---|
| Element | OverheadPosition |
| Type | ct:ValueKeyIntPair |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | <p>This element provides a list (ValueKey: xsd:AnyURI) of OverheadPosition (s), each associated with a value (a string in this case to provide a count-integer).</p> <p>An "OverheadPosition" is a resource with a role or position (or a group of resources with the same role or position) that is not assigned to or associated with any previously identified Resource.</p> |
| Comments | <ul style="list-style-type: none"> Overhead Position Examples: <ul style="list-style-type: none"> Division Supervisor Group Supervisor Assistant Safety Officer Technical Specialist |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

727

728

| | |
|----------------|-----------------------|
| Element | WorkAssignment |
| Type | ct:EDXLString |

| | |
|------------------------|---|
| Usage | OPTIONAL [0..1] |
| Definition | Description of the anticipated work assignments given to the resource. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Decision-Support-Instructions; Incident-Command-Organization |

729

| | |
|------------------------|---|
| Element | SpecialInstructions |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Description of any special instructions to the resource regarding their assignment, reporting location or any other instructions. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Decision-Support-Instructions; Incident-Command-Organization |

730

| | |
|------------------------|--|
| Element | SpecialEquipmentAndSupplies |
| Type | [xsd:string] |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | For each “Branch/Division/Group/Location” / “WorkAssignment/SpecialInstructions” combination, a listing of special equipment or supplies needed. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “ResponseResourcesTotalsDetail” element group |
| Source | ICS 215 |
| Requirements Supported | Incident-Resource-Operational-Planning |

731

| | |
|------------------------|---|
| Element | AdditionalAssistingOrganizations |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | A list of all other agencies and organizations that are not included in the formal "ResponseResource" information (who are not directly involved in the incident, but are providing support.) |
| Comments | Examples may include ambulance services, Red Cross, DHS, utility companies. Do not repeat any resources / organizations listed in the "Incident Resource Commitment Summary". |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep "ResponseResourcesTotalsDetail" element group |
| Source | ICS 209 |
| Requirements Supported | Incident-Resource-Commitment-Summary |

732

733 4.5.5 CommandOrganization Complex Type

734 Incident Organization & Assignments is a component of the "ResponseResourcesTotals" ReportType,
735 providing a hierarchical XML organization structure including information on the names, titles,
736 assignments, organization structure and contact information when an incident Command Structure is put
737 into place (i.e. "who's in charge of what").

738 The purpose is to provide a standard structure with which to carry the Positions, Names, Agency, Branch,
739 and "Report-To" relationships required to share incident organization information as needed across
740 agencies and up the chain of command, such that end applications may if desired create or populate an
741 incident command structure chart.

742 Note that an actual graphic representing the pictorial representation of the Incident Organization Chart
743 may be carried using a content object within the EDXL-Distribution element, whether produced from the
744 SitRep organization data or produced by other means.

745 Incident Organization information is also supported by the following re-usable elements associated with
746 the appropriate element:

- 747
 - EDXLLocationType [XML Structure]
- 748
 - Remarks

749

| | |
|----------------|---|
| Element | CommandStructure |
| Type | ct:EDXLString |
| Usage | OPTIONAL [0..1] |
| Definition | <p>A name given to the top level of the organization structure of an Incident Command Structure (also referred to as an "Incident Management Organization and "Unified Command"), when such an organization is in place in response to a large and/or complicated incident requiring cross-profession and jurisdiction coordination. This name typically contains reference to the incident or disaster name.</p> <p>The overall structure contains the Positions, Names, Agency, Branch, and "Report-To"</p> |

| | |
|------------------------|--|
| | relationships required to share incident organization information as needed across agencies and up the chain of command, such that end applications may if desired create or populate an incident command structure chart. Incident Command structure and personnel may change over the course of an incident, or shifts may transition in/out of active incident management roles. |
| Comments | <ul style="list-style-type: none"> ▪ Uses edxl-ciq [XML Structure] ▪ The SitRepRoot contains common elements such as SentDateTime and ForTimePeriod which is associated with an Incident CommandStructure |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization, Incident-Organization-and-Assignments |

750

| Element | PositionTitle |
|------------|---|
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL [0..1] |
| Definition | A position name, role name or title of a professional that may fall at any level of the Incident Command Structure hierarchy |
| Comments | <ul style="list-style-type: none"> ▪ Enumerated default values include: <ul style="list-style-type: none"> ○ Incident Commander ○ Liaison Officer ○ Communications Officer ○ Safety Officer ○ Public Information Officer ○ Technical Specialist ○ Planning Section Chief ○ Situation Unit Leader ○ Resources Unit Leader ○ Documentation Unit Leader ○ Demobilization Unit Leader ○ Operations Section Chief ○ Staging Area Manager ○ Logistics Section Chief ○ Support Branch Director ○ Supply Unit Director ○ Facilities Unit Director ○ Ground Support Unit Leader ○ Service Branch Director |

| | |
|------------------------|---|
| | <ul style="list-style-type: none"> ○ Food Unit Leader ○ Medical Unit Leader ○ Communications Unit Leader ○ Finance & Administration Section Chief ○ Cost Unit Leader ○ Time Unit Leader ○ Procurement Unit Leader ○ Compensation & Claims Unit Leader ▪ Additional elements that may be included with each PositionTitle (defined below) include: <ul style="list-style-type: none"> ○ PersonName ○ Agency ○ Branch ○ ReportToPositionTitle ○ ReportToPersonName ○ ReportToAgency ○ ReportToBranch |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

751

| | |
|------------------------|--|
| Element | PersonName |
| Type | ct:PersonDetails |
| Usage | OPTIONAL [0..1] |
| Definition | An agency is a type of organization, which is a division of government with a specific function, or a nongovernmental organization (e.g., private contractor, business, etc.) that offers a particular kind of assistance. In ICS, agencies are defined as jurisdictional (having statutory responsibility for incident mitigation) or assisting and/or cooperating (providing resources and/or assistance). (See Assisting Agency, Cooperating Agency, and Multi-agency.) |
| Comments | <ul style="list-style-type: none"> ▪ Agencies may be listed individually or in groups. |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

752

| | |
|------------------------|---|
| Element | Branch |
| Type | ct:ValueKey |
| Usage | OPTIONAL [0..1] |
| Definition | The organizational level having functional or geographic responsibility for major parts of incident operations. The Branch level is organizationally between Section and Division/Group in the Operations Section, and between Section and Units in the Logistics Section. Branches are identified by the use of Roman Numerals or by functional name (e.g. medical, security, etc.). |
| Comments | |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

753

| | |
|----------------|---|
| Element | ReportsToPositionTitle |
| Type | ct:ValueKey |
| Usage | OPTIONAL [0..1] |
| Definition | A position name, role name or title of a professional that the current PositionTitle Value reports to in the Incident Command Structure hierarchy |
| Comments | <ul style="list-style-type: none"> ▪ Default enumerated values include:: (Same ValueList as PositionTitle) <ul style="list-style-type: none"> ○ Incident Commander ○ Liaison Officer ○ Communications Officer ○ Safety Officer ○ Public Information Officer ○ Technical Specialist ○ Planning Section Chief ○ Situation Unit Leader ○ Resources Unit Leader ○ Documentation Unit Leader ○ Demobilization Unit Leader ○ Operations Section Chief ○ Staging Area Manager ○ Logistics Section Chief ○ Support Branch Director ○ Supply Unit Director |

| | |
|------------------------|--|
| | <ul style="list-style-type: none"> ○ Facilities Unit Director ○ Ground Support Unit Leader ○ Service Branch Director ○ Food Unit Leader ○ Medical Unit Leader ○ Communications Unit Leader ○ Finance & Administration Section Chief ○ Cost Unit Leader ○ Time Unit Leader ○ Procurement Unit Leader ○ Compensation & Claims Unit Leader <ul style="list-style-type: none"> ▪ Additional elements that may be included with each ReportsToPositionTitle include: <ul style="list-style-type: none"> ○ ReportsToPersonName ○ ReportsToAgency ○ ReportsToBranch |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

754

| | |
|------------------------|---|
| Element | ReportsToPersonName |
| Type | ct:PersonDetails |
| Usage | OPTIONAL [0..1] |
| Definition | Name of the person filling the ReportsToPositionTitle or role within the Incident Command Structure hierarchy |
| Comments | |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

755

| | |
|----------------|------------------------|
| Element | ReportsToAgency |
| Type | ct:ValueList |

| | |
|------------------------|--|
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | An agency is a type of organization, which is a division of government with a specific function, or a nongovernmental organization (e.g., private contractor, business, etc.) that offers a particular kind of assistance. In ICS, agencies are defined as jurisdictional (having statutory responsibility for incident mitigation) or assisting and/or cooperating (providing resources and/or assistance). (See Assisting Agency, Cooperating Agency, and Multi-agency.) |
| Comments | |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

756

| | |
|------------------------|---|
| Element | ReportsToBranch |
| Type | ct:ValueKey |
| Usage | OPTIONAL [0..1] |
| Definition | The organizational level having functional or geographic responsibility for major parts of incident operations. The Branch level is organizationally between Section and Division/Group in the Operations Section, and between Section and Units in the Logistics Section. Branches are identified by the use of Roman Numerals or by functional name (e.g. medical, security, etc.). |
| Comments | |
| Constraints | |
| Source | ICS 201, ICS 203 |
| Requirements Supported | Incident-Command-Organization |

757

758 4.6 CasualtyAndIllnessSummary Report Type

759 The “Casualty and Illness Summary” ReportType provides casualty numbers and percentages by
760 prescribed categories over specified time periods. Casualty information categories are further segregated
761 by responders (per the NIMS definition) and non-responders (members of the public).

762 Fatality information or responder status information MUST be actual, and never estimated.

763 **Note:** In regard to “Ttotals”. totals can be calculated, so separate elements for those values are not
764 included

765 Each Casualty and Illness Category value (except “#Fatalities”) may be paired with the element
766 “Estimate” (Boolean) to indicate whether the Casualty figure is estimated vs. known / actual.

767 The example below provides a possible application report which may be developed by an application or
768 system. Although this example shows totals and percentages for illustration, only the raw data counts are
769 carried using this standard.

770 The example illustrates a list of Casualty and Illness Categories which were selected, including for each
771 the Responder Summary Count and Non-Responder Summary Count for This Reporting Period, and the
772 same for Total Number to Date.

773 **Non-Normative EXAMPLE**

| | Number This Reporting Period | | | Total Number To Date | | |
|---------------------------------------|-------------------------------|---------------------------------------|-------------------------|-------------------------------|---------------------------------------|------------------|
| | Responder Summary Count | Non- Responder Summary Count | Total This Period | Responder Summary Count | Non- Responder Summary Count | Total to Date |
| Casualty & Illness Summary Categories | | | | | | |
| NumberOfFatalities | 1 | | 1 | 1 | 2 | 3 |
| NumberOfHospitalized | | | 0 | 2 | 2 | 4 |
| NumberOfWithInjury/Illness | | | 0 | | 6 | 6 |
| NumberOfTrapped/In need of rescue | | | 0 | | | 0 |
| NumberOfMissing | | | 0 | 2 | 2 | 4 |
| NumberOfEvacuated | | | 0 | | | 0 |
| NumberOfSheltering In Place | | | 0 | | | 0 |
| NumberInTemporaryShelters | | | 0 | | | 0 |
| NumberInQuarantine | | | 0 | | | 0 |
| HaveReceivedMassImmunizationsCount | | | 0 | | | 0 |
| RequireMassImmunizationsCount | | | 0 | | | 0 |
| TOTAL | 1 | 0 | 1 | 5 | 12 | 17 |
| TotalNumberOfCasualtiesAffected | | | | | | |
| Responder Summary Percentage: | 100.00% | | | 29.41% | | |
| Non-Responder Summary Percentage: | 0.00% | | | 70.59% | | |
| Remarks: | | | | | | |

TotalNumberOfCasualtiesAffected

774
775
776

777

| Element | SummaryCount |
|------------------------|---|
| Type | sr:CasualtyAndIllnessCategory |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Casualty-and-Illness-Summary |

778

| Element | NotifiableDiseaseNumbers |
|------------------------|---|
| Type | sr:NotifiableDiseaseNumbers |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Casualty-and-Illness-Summary |

779

780

781 4.6.1 CasualtyAndIllnessCategory Complex Type

782 The CasualtyAndIllnessSummary Report Type as a whole is optional. However, if any one or more
 783 elements from the CasualtyAndIllnessSummary Element Group is completed, then a full report MUST be
 784 created and transmitted to the appropriate recipient(s) with roll up to summary numbers "by period".

785 Summary statistics / totals are broken out by Responders, Non-Responders and overall total.

786

787

788

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| | |
|------------------------|--|
| Element | CasualtyAndIllnessCountCategory |
| Type | ct:ValueKeyType |
| Usage | REQUIRED [1..1] |
| Definition | A type of casualty or illness, used to collect counts and statistics by types of casualties. Part of the CasualtyAndIllnessSummaryCount XML structure. |
| Comments | A casualty is any person impacted in some way by an emergency situation or disaster. |
| Constraints | <ul style="list-style-type: none"> ▪ Default enumerated values include:: <ul style="list-style-type: none"> ○ Fatality – Deceased ○ Hospitalized – In-route or arrived at an Emergency Department or Hospital ○ Injury / Illness – Physical or mental damage or sickness including those that may be caused through a biological event such as an epidemic or an exposure to toxic or radiological substances. ○ Trapped / In Need of Rescue – In need of rescue due to incident or other conditions ○ Missing – Cannot be located ○ Evacuated – Accounted for and being evacuated from the scene ○ Sheltering in Place – Accounted for but sheltering in their original location at time of the incident ○ In Temporary Shelters – Accounted for and have been placed in a temporary shelter ○ In Quarantine – Accounted for and under quarantine by authorities ▪ Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

790

| | |
|------------|---|
| Element | ResponderSummaryCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL[0..1] |
| Definition | For each CasualtyAndIllnessCountCategory, the count of Responder Casualties for this reporting period. Part of the CasualtyAndIllnessSummaryCount XML structure. |
| Comments | <ul style="list-style-type: none"> ▪ “Responders” are those personnel belonging to organizations and agencies officially assisting and cooperating with response efforts, and may be included as part of unified command partnerships. Responders may include both paid professionals and volunteer personnel who have recognized emergency response authority at the time of the incident, such as a firefighter, EMT, police |

| | |
|------------------------|---|
| | officer or Incident Commander. |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep “CasualtyAndIllnessSummary” Report Type |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

791

| | |
|------------------------|---|
| Element | NonResponderSummaryCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | <p>For each CasualtyAndIllnessCountCategory, the count of Non-Responder Casualties for this reporting period.</p> <p>Part of the CasualtyAndIllnessSummaryCount XML structure.</p> |
| Comments | <p>“Non-Responders” are those civilians who are affected by the incident, but who are not included as part of the authorized response effort (are not categorized as “Responders”).</p> |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

792

| | |
|----------------|---|
| Element | ResponderSummaryCountToDate |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | <p>For each CasualtyAndIllnessCountCategory, the count of Non-Responder Casualties for this incident to date.</p> <p>Part of the CasualtyAndIllnessSummaryCount XML structure.</p> |
| Comments | <ul style="list-style-type: none"> “Non-Responders” are those civilians who are affected by the incident, but who are not included as part of the authorized response effort (are not categorized as “Responders”). E.g. the NumberOfFatalities for this reporting period is 1; however the NumberOfFatalities totaled to date is 3 |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements | Casualty-and-Illness-Summary |

| | |
|-----------|--|
| Supported | |
|-----------|--|

793

| | |
|------------------------|---|
| Element | NonResponderSummaryCountToDate |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | For each CasualtyAndIllnessCountCategory, the count of Non-Responder Casualties for this incident to date. Part of the CasualtyAndIllnessSummaryCount XML structure. |
| Comments | <ul style="list-style-type: none"> “Non-Responders” are those civilians who are affected by the incident, but who are not included as part of the authorized response effort (are not categorized as “Responders”). E.g. the NumberOfFatalities for this reporting period is 1; however the NumberOfFatalities totaled to date is 3 |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

794

| | |
|------------------------|--|
| Element | HaveReceivedMassImmunizationsCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | The number count of people who have received immunizations relevant specifically to incident conditions and/or as part of incident operations. |
| Comments | <ul style="list-style-type: none"> This number is not included in any Casualty and Illness Summary totals |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

795

| | |
|----------------|--------------------------------------|
| Element | RequireMassImmunizationsCount |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |

| | |
|------------------------|--|
| Definition | The number of people who require immunizations relevant specifically to incident conditions and/or as part of incident operations. |
| Comments | Count in this element refers to number of people. |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

796

| | |
|------------------------|--|
| Element | ShelterCountEstimate |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | The total number of people projected to require shelter due to the incident, to assist planning and matching of resources. |
| Comments | <ul style="list-style-type: none"> This number is not included in any Casualty and Illness Summary totals |
| Constraints | Used in EDXL-SitRep CasualtyAndIllnessSummary Report Type. |
| Source | ICS 209 |
| Requirements Supported | Casualty-and-Illness-Summary |

797

798 4.6.1.1 NotifiableDiseaseNumbers Complex Type

799 A notifiable disease is one for which regular, frequent, timely information on individual cases is
800 considered necessary to prevent and control that disease.

801 Can re-use the common element "estimated"...

802

803

| | |
|----------------|--|
| Element | DiseaseSuspected |
| Type | ct:ValueKey |
| Usage | REQUIRED [1..1] |
| Definition | A notifiable disease is one for which regular, frequent, timely information on individual cases is considered necessary to prevent and control that disease. The list of notifiable diseases varies over time and by state. The list of nationally notifiable diseases is reviewed and modified by the Council of State and Territorial Epidemiologists (CSTE) and CDC once each year and is available on the Internet at: http://www.cdc.gov/ncphi/diss/nndss/phs/infdis.htm |

| | |
|------------------------|---|
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep NotifiableDiseaseNumbers element group within the EDXL-SitRep CasualtyAndIllnessSummary Report Type |
| Source | |
| Requirements Supported | Notifiable-Disease-Numbers |

804

| | |
|------------------------|---|
| Element | ProbableCause |
| Type | ct:EDXLString |
| Usage | REQUIRED [1..1] |
| Definition | Description of the most likely cause of the suspected disease. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep NotifiableDiseaseNumbers element group within the EDXL-SitRep CasualtyAndIllnessSummary Report Type |
| Source | |
| Requirements Supported | Notifiable-Disease-Numbers |

805

| | |
|------------------------|---|
| Element | CountOfSuspectedCases |
| Type | [xsd:unsignedInt] |
| Usage | REQUIRED [1..1] |
| Definition | The number of cases alleged but not confirmed of the suspected disease. |
| Comments | |
| Constraints | Used in EDXL-SitRep NotifiableDiseaseNumbers element group within the EDXL-SitRep CasualtyAndIllnessSummary Report Type |
| Source | |
| Requirements Supported | Notifiable-Disease-Numbers |

806

| | |
|----------------|------------------------------|
| Element | CountOfConfirmedCases |
|----------------|------------------------------|

| | |
|------------------------|---|
| Type | [xsd:unsignedInt] |
| Usage | REQUIRED [1..1] |
| Definition | The number of cases officially confirmed of the suspected disease. |
| Comments | |
| Constraints | Used in EDXL-SitRep NotifiableDiseaseNumbers element group within the EDXL-SitRep CasualtyAndIllnessSummary Report Type |
| Source | |
| Requirements Supported | Notifiable-Disease-Numbers |

807

808 4.7 ManagementReportingSummary Report Type

809 The ManagementReportingSummary Report Type contains elements to manage information related to
810 situation information such as property categories, damage assessments, transportation systems,
811 hazards, weather concerns and general threats to the life and property. It has many areas of concern that
812 overlap the other topical categories of situation information, response resources and casualty information
813 related to overall population health.

814 The foregoing topical categories fall in the SituationSummary Element Group, while the information more
815 directly related to making decisions is gathered into IncidentDecisionSupportInformation Element Group.

816 This group contains elements such as ProjectedIncidentActivity, StrategicDiscussion, PlannedActions..

817

| | |
|------------------------|---|
| Element | SituationSummary |
| Type | sr:SituationSummary |
| Usage | OPTIONAL [0..1] |
| Definition | <p>The element group gathered in SituationSummary identifies situation status and describes information aimed, primarily as support for human decision-making across the organizations involved and within the chain of command .</p> <p>SituationSummary focuses on information about infrastructure and Primary Hazards, Threat to Human Life and Safety, Infrastructure Affected and Possible Cascading Effects.</p> |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

818

| | |
|------------------------|---|
| Element | DecisionSupportInformation |
| Type | sr:IncidentDescionSupportInformation |
| Usage | OPTIONAL [0..1] |
| Definition | DecisionSupportInformation provides information pertaining to decisions required in as timely a fashion as possible. Such information needs to be gathered, assembled and presented to incident command with as much analysis as time allows throughout the lifecycle of the incident and response. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

819

| | |
|------------------------|--|
| Element | JurisdictionInformation |
| Type | sr:Jurisdiction |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | JurisdictionInformation provides key information about incident command and the various organizations involved in the response. Jurisdiction INformaiton is key to making quick decisions that do not exceed the authority of the jurisdiction involved. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

820

821 4.7.1 ExternalAffairs Complex Type

822 The ExternalAffairs element group provides information about concerns that are external to the
823 ManagementReportingSummary context that nevertheless needs to be taken into account by the
824 responder organizations and jurisdictions.

| | |
|----------------|--|
| Element | EffectivePublicCommunication |
| Type | [xsd:boolean] |
| Usage | OPTIONAL [0..1] |
| Definition | The EffectivePublicCommunication element is aimed at gauging whether or not the responding agency is communicating well with the at-risk public as well as the |

| | |
|------------------------|-------------------------------|
| | public at large. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

825

| | |
|------------------------|---|
| Element | TalkingPoints |
| Type | {XML Structure} |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | TalkingPoints is the container element for individual Talking Points. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

826

| | |
|------------------------|--|
| Element | TalkingPoint |
| Type | [xsd:string] |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | TalkingPoint is the individual item of information which the responding agency organization wishes to communicate to the public or coordinating agencies with regard to the incident that the responding organizations are engaging. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

827

828

| Element | Rumors |
|------------------------|--|
| Type | {XML Structure} |
| Usage | OPTIONAL [0..1] |
| Definition | Rumors is the container element for individual Rumor elements. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

829

| Element | Rumor |
|------------------------|--|
| Type | [xsd:string] |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | Rumort is the individual item of information which the responding agency organization wishes to communicate to the public or coordinating agencies with regard to the incident that the responding organizations are engaging. |
| Comments | |
| Constraints | |
| Source | |
| Requirements Supported | Incident-Response-Information |

830 4.7.2 SituationSummary Complex Type

831 The SituationSummary element group provides concise status and descriptive information about the
832 overall situation, primarily as input to human decision-making across coordinating organizations and up
833 the chain of command. SituationSummary focuses on information about the current situation affecting
834 people and infrastructure safety such as Primary Hazards, Threat to Human Life and Safety,
835 Infrastructure Affected and Possible Cascading Effects.

836

| Element | IncidentCause |
|---------|-----------------|
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |

| | |
|------------------------|--|
| Definition | The known or suspected cause of the incident such as "tornado", "wildfire", "bridge collapse", "parade", "vehicle fire", "mass casualty", etc. |
| Comments | May be used with the common element "Estimate" to indicate whether the size is estimated or known . |
| Constraints | |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information Information Requirement #28 |

837

| | |
|----------------|--|
| Element | SignificantEvents |
| Type | ct:ValueList |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | This element provides a list (ValueKey: xsd:AnyURI) of SignificantEvent(s), each associated with a value. The value is a string providing a textual description summarizing significant results, decisions or progress resulting from an incident such as, evacuations, incident growth, etc. during the period being reported ("ForTimePeriod"). For example, road closures, evacuations, progress made, accomplishments, incident command transitions, repopulation of formerly evacuated areas, etc. Includes specifics, for example road closures include road number and duration of closure. |
| Comments | <ul style="list-style-type: none"> ▪ Re-uses the element "Remarks" to include specifics ▪ Default enumerated values include, but are not limited to the following <ul style="list-style-type: none"> ○ Road closure ○ Mass Notifications ○ Evacuation ○ Shelter in place ○ Road Closure ○ Power outage ○ Tree(s) down ○ Stranded vehicle(s) ○ Water Line break ○ Water shortage ○ Quarantine ○ Bridge collapse ○ Building collapse ○ Deaths ○ Injuries ○ Mass Immunizations ○ Cleanup Complete |

| | |
|------------------------|--|
| | <ul style="list-style-type: none"> ○ Resident repopulation ○ Incident Command Transition ○ Accomplishments |
| Constraints | <ul style="list-style-type: none"> ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

838

| | |
|------------------------|--|
| Element | DamageAssessmentInformation |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual description summarizing damage and/or restriction of use/availability to residential or commercial property, natural resources, critical infrastructure and key resources, etc. Includes a short summary of damage or use or access restrictions caused by the incident. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

839

| | |
|----------------|--|
| Element | PrimaryHazards |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual description summarizing hazardous chemicals, fuel types, infectious agents, radiation, etc. When relevant includes the appropriate primary materials, fuels or other hazards involved in the incident that are leaking, burning, infecting or otherwise causing major problems. Examples include hazardous chemicals, wildland fuel models, biohazards, explosive materials, oil, gas etc. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |

| | |
|------------------------|---|
| Requirements Supported | <ul style="list-style-type: none"> Situation-Summary-Information |
|------------------------|---|

840

| | |
|------------------------|--|
| Element | HazMatIncidentReport |
| Type | xs:any |
| Usage | OPTIONAL [0..1] |
| Definition | <p>This element provides a brief overall HazMat summary, providing an XML structure which fulfills the information needs contained in “HazMat* Incident Report Form 5800.1 (DOT – IEEE 1512)”. IEEE 1512 may be used as well as other namespaced existing standards</p> <p>Existing HazMat Structures may be used.</p> |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | SitRep Used Cases |
| Requirements Supported | Situation-Summary-Information |

841

| | |
|------------------------|--|
| Element | ExtentOfContamination |
| Type | ct:EDXLLocationType |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | The geographical extent or “footprint” of the Contamination |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

842

| | |
|----------------|--------------------------------|
| Element | GeneralPopulationStatus |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |

| | |
|------------------------|--|
| Definition | General status description of the general population in designated counties during emergencies or disasters. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

843

| | |
|------------------------|---|
| Element | HumanLifeAndSafetyThreat |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual description of hazards which are potentially dangerous and cause a threat to human life and safety |
| Comments | <ul style="list-style-type: none"> This element reflected in the similar "LifeAndSafetyThreat" element in the IncidentDecisionSupportInformation element group. This is a textual element in SituationSummary element group that is reflected by a more structural, decision-oriented version of essentially the same kind of data. |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

844

| | |
|----------------|---|
| Element | LifeAndSafetyThreat |
| Type | ct:ValueList |
| Usage | REQUIRED; MAY be used more than once [0..*] |
| Definition | A code indicating the current state of the threat and actions taken to manage it. |
| Comments | <ul style="list-style-type: none"> Ensure not duplicate with Situation Summary info, or ensure consistent terminology which differentiates. Re-uses the element "Remarks" to include notes related to each code. This element is reflected by "HumanLifeAndSafetyThreat" element in the "SituationSummary" element group |

| | |
|------------------------|--|
| Constraints | <ul style="list-style-type: none"> ▪ Default enumerated values include but is not limited to: <ul style="list-style-type: none"> ○ No Likely Threat - No likely threat to life and safety. ○ Potential Future Threat - Potential future threat to life and safety. ○ Mass Notifications In Progress - Mass notifications in progress regarding emergency situations, evacuations, shelter in place, or other public safety advisories relating to this incident. These may include use of threat and alert systems such as the Emergency Alert System or a “reverse 911” system. ○ Mass Notifications Completed – “Casualty and Illness Summary” by Responder has been completed and submitted for this “ForTimePeriod” ○ No Evacuation(s) Imminent - Evacuations are not anticipated in the near future based on current information. ○ Planning For Evacuation - Evacuation planning is underway in relation to this incident. ○ Planning For Shelter-In-Place - Planning is underway for shelter in place activities related to this incident. ○ Evacuation(s) In Progress - There are active evacuations in progress relating to this incident. ○ Shelter-In-Place In Progress - There are active shelter- in-place actions in progress relating to this incident. ○ Repopulation In Progress - There is an active repopulation in progress relevant to this incident. ○ Mass Immunization In Progress - There is an active mass immunization in progress relevant to this incident. ○ Mass Immunization Complete - A mass immunization effort has been completed in specific relation to this incident. ○ Quarantine In Progress - There is an active quarantine in progress relative specifically to this incident. ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type ▪ Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

845

| | |
|----------------|---|
| Element | IncidentThreatSummaryAndRisk |
| Type | [xsd:string] |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | A summary of the current threat and risk potential, movement, escalation, or spread over 12-, 24-, 48- and 72-hour standard time frames represented in the “StandardTimeFrames” common type, and any threat or risk anticipated after 72-hours. |

| | |
|------------------------|--|
| Comments | Note: See EAS time frames also for potential adoption / reuse Used in conjunction with the “StandardTimeFrames” element (ValueListURN). |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

846

| | |
|------------------------|--|
| Element | FollowOnIndication |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual description of known or anticipated incidents that will or may happen as a result of, or otherwise immediately following, the current incident |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

847

| | |
|----------------|--|
| Element | InfrastructureAffected |
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL; MAY be used more than once [0..*] |
| Definition | Infrastructure and/or operational systems actually or most likely affected by disaster. |
| Comments | Note: The purpose of this element is similar to the purpose of the threat element above and in IncidentDecisionSupportInformation |
| Constraints | <ul style="list-style-type: none"> Default enumerated values includeThe enumerated list of default values includes but is not limited to: <ul style="list-style-type: none"> Mass Transit Roads and Highways Railway Bridges and Tunnels Seaports |

| | |
|------------------------|--|
| | <ul style="list-style-type: none"> ○ Waterways ○ Airports ○ Broadcast (TV, Radio, etc.) ○ Power ○ Water ○ Bridges ○ Gas Lines ○ Nuclear ○ Conduits and raceways ○ Cabling, patch panels ○ Power & Energy ○ Air Conditioning ○ Drinking Water ○ Sewage ○ Irrigation ○ Waste / Hazardous Waste ○ Flood control (dikes, Levees) ○ Earth monitoring and measurement networks (Tidal, Meteorological, Seismometer, etc.) ○ Postal ○ Telecommunications – Phone ○ Telecommunications – Mobile ○ Internet backbone ○ Private Network ○ Satellite ○ Electronic Communications Networks ○ Personal Computing servers and devices ○ Trained Personnel ○ Used in SitRep “Situation Summary” element / container |
| Source | |
| Requirements Supported | Situation-Summary-Information |

848

| | |
|----------------|--|
| Element | PropertyDamage |
| Type | ct:ValueKeyIntPair |
| Usage | OPTIONAL; MAY use mutltiple [0..*] |
| Definition | The number of property categories that are threatened, damaged or destroyed by disaster or incident. |
| Comments | |

| | |
|------------------------|---|
| Constraints | <ul style="list-style-type: none"> ▪ Always paired with one “PropertyCategory” ▪ Value list defaults include but not limited to: <ul style="list-style-type: none"> ○ Threatened within 72 hours ○ Damaged ○ Destroyed ○ Value (numeric designating the number threatened, damaged or destroyed) ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

849

| | |
|------------------------|--|
| Element | PercentContained |
| Type | ct:Percentage |
| Usage | OPTIONAL [0..1] |
| Definition | Estimated percentage of the incident that has been contained, or where work to complete response to the incident has been completed. |
| Comments | e.g. 80% |
| Constraints | Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

850

| | |
|----------------|--|
| Element | RequestsForAdditionalSupport |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | General description or summary of requests for additional resources or personnel – high-level textual summary of “Response Resources”. |
| Comments | Note: EDXL-RM messages may be referred to, or used to provide this and/or more detailed information. |
| Constraints | <ul style="list-style-type: none"> ▪ Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |

| | |
|------------------------|-------------------------------|
| Source | |
| Requirements Supported | Situation-Summary-Information |

851

| | |
|------------------------|--|
| Element | TerrorismNexus |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual description of any connections that may exist with terrorist acts associated with this incident. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

852

| | |
|----------------|--|
| Element | WeatherEffects |
| Type | ct:WeatherInfo |
| Usage | OPTIONAL [0..1] |
| Definition | Text indicating Current and predicted weather and related factors that may effect or cause concern for the incident and related areas, in the form of a short synopsis on weather factors. |
| Comments | <ul style="list-style-type: none"> Always paired with Weather Concerns Includes current and/or predicted weather factors, and the time frame for predictions. Includes relevant factors listed below and other weather information relative to the incident, such as flooding, hurricanes, etc. Includes, but not limited to: <ul style="list-style-type: none"> Wind Speed (label units, such as mph). Wind Direction (clarify and label where wind is coming from and going to in plain language, i.e.: "from NNW", "from E", or "from SW"). Temperature (label units such as F) Relative Humidity (label %) Watches Warnings Tides Currents |

| | |
|------------------------|--|
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

853

854

| | |
|------------------------|--|
| Element | WMDEffects |
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Textual descripton of any effects produced by weapons of mass destruction. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation-Summary-Information |

855

| | |
|------------------------|---|
| Element | TransportationSystems |
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL, MAY be used more than once [0..*] |
| Definition | A list of Transportation systems, such as surface roadways, inland waterways, airports, etc., so that each may be associated with a status. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRepSituationSummary element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation Summary-Information |

856

857

4.7.3 DebrisManagement ComplexType

Elements in the DebrisManagement ComplexType are used to track the details of debris management in the incident being reported.

| Element | TotalDebrisGeneratedCY |
|------------------------|---|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | TotalDebrisGeneratedCY stands for Total Debris Generated in the Incident being reported in the unit of measure of Cubic Yards. |
| Comments | |
| Constraints | <ul style="list-style-type: none">Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

| Element | DebrisClearedToDateCY |
|------------------------|---|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DebrisClearedToDateCY stands for Debris Cleared To Date in the Incident being reported in the unit of measure of Cubic Yards. |
| Comments | |
| Constraints | <ul style="list-style-type: none">Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

| Element | DebrisNotYetClearedCY |
|------------|--|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DebrisNotYetClearedCY stands for DebrisNotYetCleared in the Incident being reported in the unit of measure of Cubic Yards. |

| | |
|------------------------|---|
| | |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

864

| | |
|------------------------|---|
| Element | DaysToClearanceComplete |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DaysToClearanceComplete stands for number of Days To Complete Clearance of Debris in the Incident being reported. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

865

| | |
|------------------------|---|
| Element | PercentOfJurisdictionWithDebrisImpacts |
| Type | [ct:percentageType] |
| Usage | OPTIONAL, [0..1] |
| Definition | PercentOfJurisdictionWithDebrisImpacts stands for Percent Of the Reporting Jurisdiction that has sustained the impact of Debris in the Incident being reported as a percentage of the total area of the Jurisdiction in question. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

866

| | |
|------------------------|---|
| Element | AreasWithDebrisImpacts |
| Type | [ct:ValueListType] |
| Usage | OPTIONAL, [0..1] |
| Definition | AreasWithDebrisImpacts stands for areas named in the ValueListType within the Jurisdiction in the Incident being reported which have Debris Impacts. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

867

| | |
|------------------------|---|
| Element | AreasWhereWorkNotStarted |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | AreasWhereWorkNotStarted stands for areas named in the ValueListType within the Jurisdiction in the Incident being reported where work has begun on Debris Removal. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

868

| | |
|----------------|--|
| Element | DebrisDisposedToDateCY |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DebrisDisposedToDateCY stands for Total Debris disposed of in the Incident being reported in the unit of measure of Cubic Yards. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep |

| | |
|------------------------|--|
| | ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Situation Summary-Information |

869

| | |
|------------------------|---|
| Element | DebrisNotYetDisposedCY |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DebrisNotYetDisposedCY stands for Total Debris that has not yet been disposed of in the Incident being reported in the unit of measure of Cubic Yards. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

870

| | |
|------------------------|--|
| Element | DebrisStorageSitesPercentFilled |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |
| Definition | DebrisStorageSitesPercentFilled stands for Percentage of Total space available in Debris Storage Sites which has been filled in the Incident being reported. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

871

| | |
|----------------|-------------------------------|
| Element | DaysToDisposalComplete |
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL, [0..1] |

| | |
|------------------------|---|
| Definition | DaysToDisposalComplete stands for number of days remaining to complete disposal of the debris in the incident being reported.. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-DebrisManagement ComplexType within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Situation Summary-Information |

872

873 4.7.4 IncidentDecisionSupportInformation ComplexType

874 Elements in the IncidentDecisionSupportInformation element group provide general management-level
875 status and descriptive information about resources, scope and status of the incident response, and time
876 and cost estimates such as projected # Of People To Be Sheltered, Anticipated Incident Management
877 Completion Date, and Emergency Response Issues / Operational Activities.

878 Incident Decision Support information also utilizes the following supporting elements:

- 879 ▪ LocationSizeUOM
- 880 ▪ StandardTimeFrames
- 881 ▪ Remarks

882

| | |
|------------------------|--|
| Element | ProjectedIncidentActivity |
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL [0..1] |
| Definition | An estimate when it is appropriate to do so of the projected incident activity, potential, movement, escalation, or spread and influencing factors during the next operational period. Direction/scope in which the incident is expected to spread, migrates, or expands during the next operational period, or other factors that may cause activity changes. |
| Comments | <ul style="list-style-type: none"> Include an estimate of the acreage or area that will likely be affected. If known, provide the above information in 12-, 24-, 48- and 72-hour time frames, and any activity anticipated after 72-hours |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

883

| | |
|----------------|-------------------------------------|
| Element | ProjectedNumberToBeSheltered |
|----------------|-------------------------------------|

| | |
|------------------------|--|
| Type | [xsd:unsignedInt] |
| Usage | OPTIONAL [0..1] |
| Definition | The total number of people projected to require shelter due to the incident, to assist planning and matching of resources. |
| Comments | <ul style="list-style-type: none"> This is not a “CasualtyAndIllnessCategory”. This number is not included in any Casualty and Illness Summary totals |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | |
| Requirements Supported | Incident-Decision-Support-Information |

884

| | |
|------------------------|--|
| Element | CriticalResourceNeeds |
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL, MAY be used more than once [0..*] |
| Definition | A summary of the overall resource needs required over 12-, 24-, 48- and 72-hour time frames, and anticipated after 72-hours. |
| Comments | <ul style="list-style-type: none"> Used in conjunction with the “StandardTimeFrames” element (ValueListURN). |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

885

| | |
|----------------|--|
| Element | ProjectedFinalIncidentSize |
| Type | [xsd:unsignedLong] |
| Usage | OPTIONAL [0..1] |
| Definition | An estimate of the total physical area likely to be involved or affected over the course of the incident. |
| Comments | <ul style="list-style-type: none"> Use labels for acres, hectares, square miles, etc., as appropriate (Use the “LocationSizeUOM” element). Though both came from ICS-209, need to be clear difference and purpose vs. “Incident Size”. Note that Incident Size may be actual or estimated. |

| | |
|------------------------|--|
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

886

| | |
|------------------------|---|
| Element | AnticipatedCompletionDate |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The Date/Time at which incident containment or control is expected, or at which time the incident is expected to be closed or when significant incident support will be discontinued. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

887

| | |
|------------------------|--|
| Element | ProjectedDemobilizationStartDate |
| Type | ct:EDXLDateTime |
| Usage | OPTIONAL [0..1] |
| Definition | The Date/Time at which major or significant demobilization is likely. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

888

| | |
|----------------|-----------------------------|
| Element | EstimatedCostsToDate |
| Type | ct:Currency |

| | |
|------------------------|---|
| Usage | OPTIONAL [0..1] |
| Definition | An estimate of the total costs for the incident once all financial costs have been processed based on current spending and projected incident activity levels. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Always used with the CurrencyType common element (e.g. USD) Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

889

| | |
|------------------------|---|
| Element | ProjectedFinalCosts |
| Type | ct:Currency |
| Usage | OPTIONAL [0..1] |
| Definition | An estimate of the total costs for the incident once all financial costs have been processed based on current spending and projected incident activity levels. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Always used with the CurrencyType common element (e.g. USD) Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | ICS 209 |
| Requirements Supported | Incident-Decision-Support-Information |

890

| | |
|----------------|---|
| Element | EmergencyResponseIssues |
| Type | ct:ValueKeyStringPair |
| Usage | OPTIONAL (MAY be used more than once) |
| Definition | Brief overview of current and critical response activities, and initiatives for each Emergency Support Function (ESF) as applicable. Identify any new mission assignments. If not activated, so indicate. If deactivated, indicate deactivation date. Overview should be provided for each standard ESF as appropriate. |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Enumerated default values include the following, a proposed list of ESF's (taken from NIMS and the DHS SitReps): |

| | |
|------------------------|--|
| | <ul style="list-style-type: none"> ○ (ESF11) AgricultureAndNaturalResources ○ (ESF2) Communications ○ (ESF5) EmergencyManagement ○ (ESF12) Energy ○ (ESF15) ExternalAffairs ○ (ESF4) Firefighting ○ (ESF7) LogisticsManagementResourceSupport ○ (ESF14) LongTermCommunityRecoveryAndMitigation ○ (ESF6) MassCareHousingAndHumanServices ○ (ESF10) OilAndHazardousMaterialsResponse ○ (ESF8) PublicHealthAndMedicalServices ○ (ESF13) PublicSafetyAndSecurity ○ (ESF3) PublicWorksAndEngineering ○ (ESF9) SearchAndRescue ○ (ESF1) Transportation <ul style="list-style-type: none"> • Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | DHS SitRep Update Report, DHS/FEMA SitRep Worksheet |
| Requirements Supported | |

891

892

| Element | StrategicDiscussion |
|--------------|---|
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | <p>Discussion of planned activities over the next operational period, explaining the relation of overall strategy, constraints, and current available information to:</p> <ol style="list-style-type: none"> 1) Critical resource needs identified. 2) The Incident Action Plan and management objectives and targets, 3) Anticipated results. <p>Explain major problems and concerns such as operational challenges, incident management problems, and social, political, economic, or environmental concerns or impacts.</p> |
| Comments | |
| Constraints | <ul style="list-style-type: none"> ▪ Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | DHS SitRep Update Report, DHS/FEMA SitRep Worksheet |
| Requirements | |

| | |
|-----------|--|
| Supported | |
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893

| Element | PlannedActions |
|------------------------|--|
| Type | [xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | Discussion of planned actions over the next operational period. |
| Comments | |
| Constraints | Used in EDXL-SitRep IncidentDecisionSupportInformation element group within the EDXL-SitRep ManagementReportingSummary Report Type |
| Source | DHS SitRep Update Report, DHS/FEMA SitRep Worksheet |
| Requirements Supported | |

894

895 4.8 Supporting Elements Model

896 Supporting Element Types borrow re-usable elements from the edxl-rim collection that apply to and
897 support multiple areas of the SitRep messages; examples of such elements: Locations, Contacts and
898 Roles, and Unit of Measure. They rely on different collections. For instance Locations are of type
899 EDXLLocationType, which is defined in the CommonTypes collection (hosted at [http://docs.oasis-](http://docs.oasis-open.org/emergency/edxl-ct/v1.0/csd01/)
900 [open.org/emergency/edxl-ct/v1.0/csd01/](http://docs.oasis-open.org/emergency/edxl-ct/v1.0/csd01/)), which itself relies on the EDXL-CIQ profile (hosted at
901 <http://docs.oasis-open.org/emergency/edxl-ciq/v1.0/csd01/>) for geopolitical info and on the EDXL-GSF
902 profile (not yet hosted) for geographical information.

903 The Supporting Elements Model distinguishes three groups of elements: CommonTypes (edxl-ct),
904 ContactInformation (edxl-ciq) and LocationInformation (edxl-gsf).

905 The following elements are used in this specification and can be found at the locations cited above.:

| Supporting Element | Defined in |
|------------------------------|------------|
| EDXLLocationType | edxl-ct |
| EDXLGeoLocationType | edxl-gsf |
| EDXLGeoPoliticalLocationType | edxl-ciq |
| ValueListURI | edcl-ct |
| Value | edxl-ct |
| ValueListIntPairType | edxl-ct |
| ValueListStringPairType | edxl-ct |
| Estimate | edxl-ct |
| Remarks | edxl-ct |

906
907
908

909 4.9 JurisdictionInformation Elements

910 “Jurisdiction” is a complex, reusable element used to identify and/or describe political Jurisdiction(s) (see
911 glossary) affected by the incident.

912 Also supported by the following elements:

- 913 ▪ LocationInformation: edxl-gsf [XML Structure]
- 914 ▪ ContactInformation: edxl-ciq [XML Structure]

915 Note: edxl-gsf & edxl-ciq contain a set of re-usable elements such as ContactDescription, ContactRole,
916 ContactLocation, EDXLLocationType, and AdditionalContactInformation.

917

| Element | Jurisdiction |
|------------------------|--|
| Type | [XML Structure][xsd:string] |
| Usage | OPTIONAL [0..1] |
| Definition | <p>An XML structure containing the following four required elements:</p> <ul style="list-style-type: none">▪ Name▪ GeographicSize▪ Location▪ Description <p>Provides information about any jurisdiction(s) that are associated with, impacted by or in charge of this incident.</p> |
| Comments | |
| Constraints | |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

918
919

| Element | Name |
|------------|--|
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |
| Definition | <p>The name of the jurisdiction (a pre-defined physical location or geo-political area, organization or agency over which legal authority extends) affected by the incident, where the incident originated, or which holds certain authority within its own jurisdiction as well as authority and responsibility in regard to mutual aid agreements.</p> |

| | |
|------------------------|--|
| | Part of the AffectedJurisdiction XML structure. |
| Comments | <ul style="list-style-type: none"> It is recognized that this definition mixes two types of concepts: <ul style="list-style-type: none"> Reference to an organization or agency that has “Authority” over something (such as an incident, or a set of identified resources). Jurisdiction in this sense may be general, such as “federal”, “city”, or “state”, or may be specific agency names such as “Warren County”, “US Coast Guard”, “Panama City”, and “NYPD”. Reference to a pre-defined physical location or geo-political area Though a jurisdiction itself is not a person, role, or title, a jurisdiction has assigned to it one or more government personnel with legal authority for certain types of decision-making such as allocation of emergency resources and invocation of mutual aid agreements. |
| Constraints | <ul style="list-style-type: none"> Terms used on ICS-209: “Incident Location Information: Incident Jurisdiction” Used in EDXL-SitRep SituationInformation and ManagementReportingSummary” Report Types. |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

920

| Element | Size |
|------------------------|--|
| Type | [xsd:unsignedLong] |
| Usage | REQUIRED [1..1] |
| Definition | <ul style="list-style-type: none"> Always paired with one “AffectedJurisdictionName” May be used with the common element “Estimate” to indicate whether the size is estimated or known. May be used with the common element “Remarks” |
| Comments | |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationInformation and ManagementReportingSummary” Report Types. |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

921

922

| Element | Location |
|---------|--------------------------|
| Type | edxl-gsf [XML Structure] |

| | |
|------------------------|--|
| Usage | REQUIRED [1..1] |
| Definition | Refers to the physical location of the affected area within an “AffectedJurisdictionName”, applying reusable edxl-gsf components to express location information using a variety of options including geopolitical (e.g. addresses) and geospatial (e.g. lat/long). Part of the AffectedJurisdiction XML structure. |
| Comments | <ul style="list-style-type: none"> Always paired with one “AffectedJurisdictionName” |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationInformation and ManagementReportingSummary Report Types. |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

923

| Element | Description |
|------------------------|--|
| Type | [xsd:string] |
| Usage | REQUIRED [1..1] |
| Definition | A textual description of the “AffectedJurisdictionName” which may provide further information about the incident effects on that Jurisdiction and/or description of the AffectedJurisdictionSize if precise information is not available. Part of the AffectedJurisdiction XML structure. |
| Comments | Always paired with one “AffectedJurisdictionName” |
| Constraints | <ul style="list-style-type: none"> Used in EDXL-SitRep SituationInformation and ManagementReportingSummary Report Types. |
| Source | ICS 209 |
| Requirements Supported | Situation-Summary-Information |

924

925 4.10 Glossary / List of Acronyms

926 NOTE: Glossary definitions contained herein are not intended to supersede existing definitions by any
927 other organization or agency. Rather, these glossary items are provided in context of defining the EDXL-
928 SitRep draft messaging standard - solely in order to clarify requirements statements.

929

930 TERM OR ACRONYM DEFINITION

| | | |
|-----|------------|--------------------------|
| 931 | ACH | Automated Clearing House |
| 932 | Ack | Acknowledgment |
| 933 | CAD | Computer Aided Dispatch |
| 934 | CAP | Common Alerting Protocol |

935 **CBRNE** Chemical, Biological, Radiological, Nuclear or High-Yield Explosive threat or attack

936 **CDC** Center For Disease Control

937 **CIQ** Customer Information Quality (a “contact information” standard)

938 **Complex Incident** A “complex” incident refers to “a series of situations or events that result in one

939 incident” (Source: NIMS). Put another way, a complex incident may consist of one or more

940 independently identified events and/or situations and/or incidents that require tracking and information

941 exchange both as individual occurrences and combined for the overall incident”.

942 **Constraint Schema** A constraint schema is simply a subset of the standard reference schema which

943 conforms to all the requirements and business rules of the reference schema. For example, an

944 implementation of the SitRep standard may eliminate selected optional elements, or enhance the

945 definition of a required element.

946 **CSTE** Council of State and Territorial Epidemiologists

947 **DE** Distribution Element

948 **DHS** Department of Homeland Security

949 **DOT** Department of Transportation

950 **EDXL** Emergency Data eXchange Language -

951 **EDXL-DE** Emergency Data eXchange Language - Distribution Element

952 **EDXL-HAVE** Emergency Data eXchange Language - Hospital aVailability Exchange

953 **EDXL-RM** Emergency Data eXchange Language - Resource Messaging

954 **EIC** Emergency Interoperability Consortium

955 **Element** “Elements” are logical groupings of message elements or “tags” for purposes of defining

956 message structure

957 **EMT** Emergency Medical Technician

958 **ERM** Element Reference Model

959 **ESF** Emergency Support Functions

960 **ETA** Estimated Time of Arrival

961 **Event** For purposes of this messaging standard, “Situations”, “Incidents” and “Events” will be

962 referred to generally as “incidents”. Situations in this context refer to occurrences of various scales - a

963 collection of happenings, observations and actions that have been correlated on some basis that may

964 require resources to perform Public Safety/Emergency/Disaster mitigation, planning and preparation,

965 response or recovery.

966 It is a generic term referring to occurrences of any scale that may require some form of Emergency

967 Response and Management, and that requires tracking and information exchange. An Event is a planned

968 situation (e.g. a parade in Washington DC). “Event” is also used to refer to a situation that has not been

969 formally identified as an incident. Like an incident, may be assigned an official ID, name or other

970 descriptive attributes. EDXL-SitRep may refer to any situation whether an incident, event or other

971 occurrence.

972 **FEMA** Federal Emergency Management Agency

973 **HazMat** Hazardous Materials

974 **HITSP** Health Information Technology Standards Panel

975 **HTTP** Hypertext Transfer Protocol

976 **ICS** Incident Command System

977 **ID** Identification

978 **IEEE** Institute of Electrical and Electronics Engineers

979 **IEPD** Information Exchange Package Development

980 **Incident** For purposes of this messaging standard, “Situations”, “Incidents” and “Events” will be

981 referred to generally as “incidents”. Situations in this context refer to occurrences of various scales - a

collection of happenings, observations and actions that have been correlated on some basis that may require resources to perform Public Safety/Emergency/Disaster mitigation, planning and preparation, response or recovery.

A Situation can be an incident, an event, or any observable or predictable occurrence. It is a generic term referring to occurrences of any scale that may require some form of Emergency Response and Management, and that requires tracking and information exchange.

“Incident” is viewed from the NIMS Emergency Management perspective as a formal or informal declaration of emergency or disaster by an organization at the state, local, federal level or by a jurisdiction. An incident may be assigned an official ID, name or other descriptive attributes. EDXL-SitRep may refer to any situation whether an incident, event or other situation or occurrence.

Jurisdiction In context of emergency response to incidents, “jurisdiction” has two similar definitions:

1. Reference to a geo-political area or location. A jurisdiction is pre-defined physical location or area over which legal authority extends. Though a jurisdiction itself is not a person, role, or title, a jurisdiction has assigned to it one or more government personnel with legal authority for certain types of decision-making such as allocation of emergency resources and invocation of mutual aid agreements.

2. Reference to an organization or agency that has “Authority” over something (such as an incident, or a set of identified resources). Jurisdiction in this sense may be general, such as “federal”, “city”, or “state”, or may be specific agency names such as “Warren County”, “US Coast Guard”, “Panama City”, and “NYPD”.

MACS Multi-Agency Coordination System

MC Mobile Command

MEMA Maryland Emergency Management Agency

NCR DEH National Capital Region Data Exchange Hub

NFES National Fire Equipment System

NIEM National Information Exchange Model

NIMS National Information Management System

OASIS Organization for the Advancement of Structured Information Standards

OIC Office for Interoperability and Compatibility

Profile (Taken from the OGC)

(Note: Considerable confusion exists in discussion and definition of the concept of a “profile”. The following definition was submitted by the OGC; however reference within this document more closely conforms to the term “constraint schema”.)

A profile of GML can be defined to enhance interoperability and to curtail ambiguity by allowing only a specific subset of GML. Application schemas can then conform to such a profile in order to take advantage of any interoperability or performance advantages that it offers in comparison with a complete GML. Such profiles can be defined for application schemas that are included in other OGC specifications. There are cases where reduced functionality is acceptable, or where processing requirements compel use of a logical subset of GML. For example, applications that do not need to handle XLink attributes in any form can adhere to a specific profile that excludes them; the constraint in this case would be to not use links. Other cases might include defining constraints on the level of nesting allowed inside tags (i.e. tree depth), or only allowing features with homogeneous properties as members of a feature collection. In many cases, such constraints can be enforced via new schemas; others may be enforced through procedural agreements within an information community.

PSG Practitioner Steering Group

RM Resource Messaging

S&T Science and Technology Directorate of DHS

SAFECOM SAFECOM is a communications program within the Office for Interoperability and Compatibility (OIC) that provides research, development, testing and evaluation, guidance, tools, and templates on communications-related issues to local, tribal, state, and Federal emergency

1032 response agencies working to improve emergency response through more effective and efficient
1033 interoperable wireless communications.

1034 **SitRep** Situation Report

1035 **Situation** For purposes of this messaging standard, “Situations”, “Incidents” and “Events” will be
1036 referred to generally as “incidents”. Situations in this context refer to occurrences of various scales - a
1037 collection of happenings, observations and actions that have been correlated on some basis that may
1038 require resources to perform Public Safety/Emergency/Disaster mitigation, planning and preparation,
1039 response or recovery.

1040 A Situation can be an incident, an event, or any observable or predictable occurrence. It is a generic term
1041 referring to occurrences of any scale that may require some form of Emergency Response and
1042 Management, and that requires tracking and information exchange.

1043 **SOAP** Simple Object Access Protocol

1044 **SWG** Standards Working Group -

1045 **UCUM** Unified Code for Units of Measure

1046 **UOM** Units of Measure

1047 **URN** Uniform Resource Name

1048 **UTC** Coordinated Universal Time

1049 **WHO** World Health Organization

1050 **WMD** Weapons of Mass Destruction

1051 **XML** eXtensible Markup Language

5 Conformance

The EDXL-SitRep v1.0 specification has been written with the objective of making conformance to its requirements straightforward and unambiguous.

5.1 Conformance Targets

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

- EDXL-SitRep Message; and
- EDXL-SitRep Message Producer and Consumer.

An EDXL-SitRep Message is an XML 1.0 element whose syntax and semantics are specified in this standard. An EDXL-SitRep Message Producer is a software entity that produces EDXL-SitRep Messages.

Note: All the existing requirements for the production of an incoming EDXL-SitRep message are, in fact, requirements on the type and content of the EDXL-SitRep message that a consumer **MUST** be capable of consuming in order to ingest and process an EDXL-SitRep message. Therefore, a conforming EDXL-SitRep Message Consumer will necessarily meet all the existing requirements for the production of EDXL-SitRep messages.

5.2 Conformance Summaries for EDXL-SitRep Messages and Producers

In summary, an EDXL-SitRep Message is one of the five (5) report type elements specified in sections 3.3.2 to 3.3.6.

Requirements for an EDXL-SitRep Message Producer are given in Section 5.4, and summarized here. An EDXL-SitRep Message Producer is a software entity that produces conforming EDXL-SitRep Messages whenever an EDXL-SitRep Message is expected.

5.3 Conformance as an EDXL-SitRep Message

5.3.1 EDXL-SitRep Message

An XML 1.0 element is a conforming EDXL-SitRep Message if and only if:

- a) it meets the general requirements specified in Section 3.3;
- b) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:SitRep:1.0:msg", then its local name is one of the five (5) report type names specified in sections 3.5 to 3.9 (also listed in Table 1), and the element is valid according to the schema located at <http://docs.oasis-open.org/emergency/EDXL-SitRep/EDXL-SitRep.xsd>, where validation is performed against the element declaration with the same local name;
- c) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:SitRep:1.0:msg", then its content (which includes the content of each of its descendants) meets all the additional mandatory requirements provided in the specific subsection of Section 3 (sections 3.5 to 3.9) corresponding to the element's name, with the exception of the Message Flow; such requirements include:
 - the content of the Element Reference Model;
 - each of the Message Rules; and
 - the normative parts (element name, usage, and constraints) of any Data Dictionary entries (in Section 4.) corresponding to the elements that actually occur in the content of the element;

1093

1094 5.4 Conformance as an EDXL-SitRep Message Producer

1095 A software entity is a conforming EDXL-SitRep Message Producer if and only if it is constructed in such a
1096 way that any XML 1.0 element produced by it and present in a place in which a conforming EDXL-
1097 SitRep message is expected (based on contextual information) is indeed a conforming EDXL-
1098 SitRep message according to this standard.

1099 **Note:** The condition above can be satisfied in many different ways. Here are some examples of possible
1100 scenarios:

- 1101 • a standard distribution protocol (say, EDXL-DE) transfers EDXL-SitRep messages; a branch of a
1102 local responder agency involved in responding to a local incident has sent an EDXL-
1103 SitRep SituationInformation Report Type message to an the Incident Command Divisional
1104 Commander which claims to be a conforming EDXL-SitRep Message Producer and Consumer, and
1105 has received an EDXL-DE message of DistributionType “Ack” including the MessageID of the EDXL-
1106 SitRep SituationInformation Report Type message sent earlier, which is therefore expected to
1107 communicate that the EDXL-SitRep SituationInformation Report Type message sent earlier has been
1108 received and ingested.
- 1109 • a local test environment has been set up, and the application under test (which claims to be a
1110 conforming EDXL-SitRep Message Producer) has the ability to produce an EDXL-SitRep message
1111 and write it to a file in a directory in response to a request coming from the testing tool; the testing tool
1112 has sent many requests to the application under test and is now verifying all the files present in the
1113 directory, which is expected to contain only conforming EDXL-SitRep Messages.

1114

1115

1116

Appendix A. Acknowledgements

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

Participants:

- Rex Brooks, Network Centric Operations Industry Consortium (NCOIC)
- Tim Grapes, Evolution Technologies, Inc., DHS Science and Technology Directorate, Office of Interoperability and Compatibility
- Werner Joerg, IEM
- Tom Ferrentino, Individual
- Gary Ham, Individual
- Don McGarry, MITRE Corporation
- Rob Torchon, Individual

Appendix B. EDXL-SituationReporting XML Schema

The EDXL-SituationReporting XML Schema is provided here for the sake of convenience and as a separate file that can be downloaded at

<http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/csd01/schemas-and-examples/EDXLSitRep.xsd>. Please note that all schemas needed for implementation of this specification can also be found at <http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/csd01/schemas-and-examples/>

```
<?xml version="1.0" encoding="utf-8"?>
<!-- edited with XMLSpy v2012 sp1 (x64) (http://www.altova.com) by Donald P.
McGarry (The Mitre Corporation) -->
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:edxl-
gsf="urn:oasis:names:tc:emergency:edxl:gsf:1.0"
xmlns:ct="urn:oasis:names:tc:emergency:edxl:ct:1.0"
xmlns="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0"
targetNamespace="urn:oasis:names:tc:emergency:EDXL:SitRep:1.0"
elementFormDefault="qualified" attributeFormDefault="qualified">
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0"
schemaLocation="./edxl-ct-v1.0-wd05.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:ct:1.0"
schemaLocation="./EDXLSitRepDefaults-v1.0-wd18.xsd"/>
  <xs:import namespace="urn:oasis:names:tc:emergency:edxl:gsf:1.0"
schemaLocation="./edxl-gsf.v1.0.xsd"/>
  <xs:complexType name="IReport" abstract="true"/>
  <!--Complex Types in Document Order-->
  <xs:complexType name="DisasterInformation">
    <xs:sequence>
      <xs:element name="DisasterName" type="xs:string" minOccurs="1"
maxOccurs="1"/>
      <xs:element name="DisasterDeclarationAuthority"
type="xs:string" minOccurs="1" maxOccurs="1"/>
      <xs:element name="DisasterDeclarationDateTime"
type="ct:EDXLDateTimeType" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="StagingArea">
    <xs:sequence>
      <xs:element name="IncidentStagingArea" type="xs:string"
minOccurs="1" maxOccurs="1"/>
      <xs:element name="IncidentStagingAreaLocation"
type="ct:EDXLLocationType" minOccurs="1" maxOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ResponseResourceTotals">
    <xs:sequence>
      <xs:element name="BranchDivisionGroup"
type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
      <xs:element name="Resource" type="ResourceCount" minOccurs="1"
maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="ResourceStatusType">
    <xs:sequence>
      <xs:element name="InventoryRefreshDateTime"
type="ct:EDXLDateTimeType" minOccurs="1" maxOccurs="1"/>
      <xs:choice>
```

```

1186         <xs:element name="DeploymentStatus"
1187 type="ct:ValueListType" minOccurs="0" maxOccurs="1"/>
1188         <xs:element name="DeploymentStatusDefault"
1189 type="ct:DeploymentStatusDefaultType" minOccurs="0" maxOccurs="1"/>
1190     </xs:choice>
1191     <xs:element name="Availability" type="xs:string"/>
1192 </xs:sequence>
1193 </xs:complexType>
1194 <xs:complexType name="ResourceCount">
1195     <xs:sequence>
1196         <xs:element name="AgencyOrganization" type="ct:EDXLStringType"
1197 minOccurs="1" maxOccurs="1"/>
1198         <xs:element name="ResourceName" type="ct:EDXLStringType"
1199 minOccurs="1" maxOccurs="1"/>
1200         <xs:element name="ResourceTypeCategoryKind"
1201 type="ct:ValueListType" minOccurs="0" maxOccurs="1"/>
1202         <xs:element name="ResourceDetail"
1203 type="ResponseResourcesDetail" minOccurs="0" maxOccurs="1"/>
1204         <xs:element name="IsSufficient" type="xs:boolean"
1205 minOccurs="0" maxOccurs="1"/>
1206     </xs:sequence>
1207 </xs:complexType>
1208 <xs:complexType name="ResponseResourcesDetail">
1209     <xs:sequence>
1210         <xs:element name="ResourcePersonnelCount"
1211 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1212         <xs:element name="UnassignedResourcePersonnel"
1213 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1214         <xs:element name="ResourceRequiredCount" type="xs:unsignedInt"
1215 minOccurs="0" maxOccurs="1"/>
1216         <xs:element name="ResourceCommittedCount"
1217 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1218         <xs:element name="ResourceOnHandCount" type="xs:unsignedInt"
1219 minOccurs="0" maxOccurs="1"/>
1220         <xs:element name="ResourceStillNeededCount"
1221 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1222         <xs:element name="ResourceRequestedCount"
1223 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1224         <xs:element name="DateTimeOrdered" type="ct:EDXLDateTimeType"
1225 minOccurs="0" maxOccurs="1"/>
1226         <xs:element name="RequestedArrival" type="ct:EDXLDateTimeType"
1227 minOccurs="0" maxOccurs="1"/>
1228         <xs:element name="EstimatedArrival" type="ct:EDXLDateTimeType"
1229 minOccurs="0" maxOccurs="1"/>
1230         <xs:element name="ReportToLocation" type="ct:EDXLLocationType"
1231 minOccurs="0" maxOccurs="1"/>
1232         <xs:element name="OverheadPosition"
1233 type="ct:ValueKeyIntPairType" minOccurs="0" maxOccurs="unbounded"/>
1234         <xs:element name="WorkAssignment" type="ct:EDXLStringType"
1235 minOccurs="0" maxOccurs="1"/>
1236         <xs:element name="SpecialInstructions" type="xs:string"
1237 minOccurs="0" maxOccurs="1"/>
1238         <xs:element name="SpecialEquipmentAndSupplies"
1239 type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
1240         <xs:element name="AdditionalAssistingOrganizations"
1241 type="xs:string" minOccurs="0" maxOccurs="1"/>
1242         <xs:element name="ResourceStatus" type="ResourceStatusType"
1243 minOccurs="0" maxOccurs="1"/>
1244     </xs:sequence>
1245 </xs:complexType>
1246 <xs:complexType name="CommandOrganization">
1247     <xs:sequence>
1248         <xs:element name="CommandStructure" type="ct:EDXLStringType"
1249 minOccurs="0" maxOccurs="1"/>

```

```

1250         <xs:element name="PositionTitle" type="PositionType"
1251 minOccurs="0" maxOccurs="1"/>
1252         <xs:element name="PersonName" type="ct:PersonDetailsType"
1253 minOccurs="0" maxOccurs="1"/>
1254         <xs:element name="Branch" type="ct:ValueKeyType" minOccurs="0"
1255 maxOccurs="1"/>
1256         <xs:element name="ReportsToPositionTitle" type="PositionType"
1257 minOccurs="0" maxOccurs="1"/>
1258         <xs:element name="ReportsToPersonName"
1259 type="ct:PersonDetailsType" minOccurs="0" maxOccurs="1"/>
1260         <xs:element name="ReportsToAgency" type="ct:ValueListType"
1261 minOccurs="0" maxOccurs="unbounded"/>
1262         <xs:element name="ReportsToBranch" type="ct:ValueKeyType"
1263 minOccurs="0" maxOccurs="1"/>
1264     </xs:sequence>
1265 </xs:complexType>
1266 <xs:complexType name="CasualtyAndIllnessCategory">
1267     <xs:sequence>
1268         <xs:element name="CasualtyAndIllnessCountCategory"
1269 type="CasualtyAndIllnessCountCategoryType" minOccurs="1" maxOccurs="1"/>
1270         <xs:element name="ResponderSummaryCount" type="xs:unsignedInt"
1271 minOccurs="0" maxOccurs="1"/>
1272         <xs:element name="NonResponderSummaryCount"
1273 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1274         <xs:element name="ResponderSummaryCountToDate"
1275 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1276         <xs:element name="NonResponderSummaryCountToDate"
1277 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1278         <xs:element name="ReceivedMassImmunizations" minOccurs="0"
1279 maxOccurs="1">
1280             <xs:complexType>
1281                 <xs:sequence>
1282                     <xs:element
1283 name="HaveReceivedMassImmunizationsCount" type="xs:unsignedInt" minOccurs="0"
1284 maxOccurs="1"/>
1285                     <xs:element name="Remarks"
1286 type="ct:RemarksType" minOccurs="0"/>
1287                     <xs:element name="Estimate"
1288 type="ct:EstimateType" minOccurs="0"/>
1289                 </xs:sequence>
1290             </xs:complexType>
1291         </xs:element>
1292         <xs:element name="RequireMassImmunizations" minOccurs="0"
1293 maxOccurs="1">
1294             <xs:complexType>
1295                 <xs:sequence>
1296                     <xs:element
1297 name="RequireMassImmunizationsCount" type="xs:unsignedInt" minOccurs="0"
1298 maxOccurs="1"/>
1299                     <xs:element name="Remarks"
1300 type="ct:RemarksType" minOccurs="0"/>
1301                     <xs:element name="Estimate"
1302 type="ct:EstimateType" minOccurs="0"/>
1303                 </xs:sequence>
1304             </xs:complexType>
1305         </xs:element>
1306         <xs:element name="ShelterCountEstimate" type="xs:unsignedInt"
1307 minOccurs="0" maxOccurs="1"/>
1308     </xs:sequence>
1309 </xs:complexType>
1310 <xs:complexType name="NotifiableDiseaseNumbers">
1311     <xs:sequence>
1312         <xs:element name="DiseaseSuspected" type="ct:ValueKeyType"
1313 minOccurs="1" maxOccurs="1"/>

```

```

1314         <xs:element name="ProbableCause" type="ct:EDXLStringType"
1315 minOccurs="1" maxOccurs="1"/>
1316         <xs:element name="CountOfSuspectedCases" type="xs:unsignedInt"
1317 minOccurs="1" maxOccurs="1"/>
1318         <xs:element name="CountOfConfirmedCases" type="xs:unsignedInt"
1319 minOccurs="1" maxOccurs="1"/>
1320     </xs:sequence>
1321 </xs:complexType>
1322 <xs:complexType name="DebrisManagementType">
1323     <xs:sequence>
1324         <xs:element name="TotalDebrisGeneratedCY"
1325 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1326         <xs:element name="DebrisClearedToDateCY" type="xs:unsignedInt"
1327 minOccurs="0" maxOccurs="1"/>
1328         <xs:element name="DebrisNotYetClearedCY" type="xs:unsignedInt"
1329 minOccurs="0" maxOccurs="1"/>
1330         <xs:element name="DaysToClearanceComplete"
1331 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1332         <xs:element name="PercentOfJurisdictionWithDebrisImpacts"
1333 type="ct:PercentageType" minOccurs="0" maxOccurs="1"/>
1334         <xs:element name="AreasWithDebrisImpacts"
1335 type="ct:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
1336         <xs:element name="AreasWhereWorkNotStarted"
1337 type="ct:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
1338         <xs:element name="DebrisDisposedToDateCY"
1339 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1340         <xs:element name="DebrisNotYetDisposedCY"
1341 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1342         <xs:element name="DebrisStorageSitesPercentFilled"
1343 type="ct:PercentageType" minOccurs="0" maxOccurs="1"/>
1344         <xs:element name="DaysToDisposalComplete"
1345 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1346     </xs:sequence>
1347 </xs:complexType>
1348 <xs:complexType name="ExternalAffairsType">
1349     <xs:sequence>
1350         <xs:element name="EffectivePublicCommunication"
1351 type="xs:boolean" minOccurs="0" maxOccurs="1"/>
1352         <xs:element name="TalkingPoints">
1353             <xs:complexType>
1354                 <xs:sequence>
1355                     <xs:element name="TalkingPoint"
1356 type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
1357                 </xs:sequence>
1358             </xs:complexType>
1359         </xs:element>
1360         <xs:element name="Rumors">
1361             <xs:complexType>
1362                 <xs:sequence>
1363                     <xs:element name="Rumor" type="xs:string"
1364 minOccurs="0" maxOccurs="unbounded"/>
1365                 </xs:sequence>
1366             </xs:complexType>
1367         </xs:element>
1368     </xs:sequence>
1369 </xs:complexType>
1370 <xs:complexType name="SituationSummary">
1371     <xs:sequence>
1372         <xs:element name="IncidentCause" type="xs:string"
1373 minOccurs="1" maxOccurs="1"/>
1374         <xs:element name="SignificantEvents"
1375 type="SignificantEventsType" minOccurs="0" maxOccurs="unbounded"/>
1376         <xs:element name="DamageAssessmentInformation"
1377 type="xs:string" minOccurs="0" maxOccurs="1"/>

```

```

1378         <xs:element name="PrimaryHazards" type="xs:string"
1379 minOccurs="0" maxOccurs="1"/>
1380         <xs:element name="HazMatIncidentReport">
1381             <xs:complexType>
1382                 <xs:sequence>
1383                     <xs:any namespace="##other"
1384 processContents="lax" minOccurs="0" maxOccurs="1"/>
1385                 </xs:sequence>
1386             </xs:complexType>
1387         </xs:element>
1388         <xs:element name="ExtentOfContamination"
1389 type="ct:EDXLLocationType" minOccurs="0" maxOccurs="unbounded"/>
1390         <xs:element name="GeneralPopulationStatus" type="xs:string"
1391 minOccurs="0" maxOccurs="1"/>
1392         <xs:element name="ExternalAffairs" type="ExternalAffairsType"
1393 minOccurs="0" maxOccurs="1"/>
1394         <xs:element name="HumanLifeAndSafetyThreat" type="xs:string"
1395 minOccurs="0" maxOccurs="1"/>
1396         <xs:element name="LifeAndSafetyThreat"
1397 type="LifeAndSafetyThreatType" minOccurs="1" maxOccurs="unbounded"/>
1398         <xs:element name="IncidentThreatSummaryAndRisk"
1399 type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
1400         <xs:element name="FollowOnIndication" type="xs:string"
1401 minOccurs="0" maxOccurs="1"/>
1402         <xs:element name="InfrastructureAffected"
1403 type="InfrastructureAffectedType" minOccurs="0" maxOccurs="unbounded"/>
1404         <xs:element name="DebrisManagement"
1405 type="DebrisManagementType" minOccurs="0" maxOccurs="1"/>
1406         <xs:element name="PropertyDamage" type="PropertyDamageType"
1407 minOccurs="0" maxOccurs="unbounded"/>
1408         <xs:element name="PercentContained" type="ct:PercentageType"
1409 minOccurs="0" maxOccurs="1"/>
1410         <xs:element name="RequestsForAdditionalSupport"
1411 type="xs:string" minOccurs="0" maxOccurs="1"/>
1412         <xs:element name="TerrorismNexus" type="xs:string"
1413 minOccurs="0" maxOccurs="1"/>
1414         <xs:element name="WeatherEffects" type="ct:WeatherInfoType"
1415 minOccurs="0" maxOccurs="1"/>
1416         <xs:element name="WMDEffects" type="xs:string" minOccurs="0"
1417 maxOccurs="1"/>
1418         <xs:element name="TransportationSystems"
1419 type="ct:ValueKeyStringPairType" minOccurs="0" maxOccurs="unbounded"/>
1420     </xs:sequence>
1421 </xs:complexType>
1422 <xs:complexType name="IncidentDecisionSupportInformation">
1423     <xs:sequence>
1424         <xs:element name="ProjectedIncidentActivity"
1425 type="ct:ValueKeyStringPairType" minOccurs="0" maxOccurs="1"/>
1426         <xs:element name="ProjectedNumberToBeSheltered"
1427 type="xs:unsignedInt" minOccurs="0" maxOccurs="1"/>
1428         <xs:element name="CriticalResourceNeeds"
1429 type="ct:ValueKeyStringPairType" minOccurs="0" maxOccurs="unbounded"/>
1430         <xs:element name="ProjectedFinalIncidentSize"
1431 type="xs:unsignedLong" minOccurs="0" maxOccurs="1"/>
1432         <xs:element name="AnticipatedCompletion">
1433             <xs:complexType>
1434                 <xs:sequence>
1435                     <xs:element
1436 name="AnticipatedCompletionDate" type="ct:EDXLDateTimeType" minOccurs="0"
1437 maxOccurs="1"/>
1438                     <xs:element name="Remarks"
1439 type="ct:RemarksType" minOccurs="0"/>
1440                 </xs:sequence>
1441             </xs:complexType>

```

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1442         </xs:element>
1443         <xs:element name="ProjectedDemobilization">
1444             <xs:complexType>
1445                 <xs:sequence>
1446                     <xs:element
1447 name="ProjectedDemobilizationStartDate" type="ct:EDXLDateTimeType"
1448 minOccurs="0" maxOccurs="1"/>
1449                     <xs:element name="Remarks"
1450 type="ct:RemarksType" minOccurs="0"/>
1451                 </xs:sequence>
1452             </xs:complexType>
1453         </xs:element>
1454         <xs:element name="EstimatedCosts">
1455             <xs:complexType>
1456                 <xs:sequence>
1457                     <xs:element name="EstimatedCostsToDate"
1458 type="ct:CurrencyType" minOccurs="0" maxOccurs="1"/>
1459                     <xs:element name="Estimate"
1460 type="ct:EstimateType" minOccurs="0"/>
1461                 </xs:sequence>
1462             </xs:complexType>
1463         </xs:element>
1464         <xs:element name="ProjectedCosts">
1465             <xs:complexType>
1466                 <xs:sequence>
1467                     <xs:element name="ProjectedFinalCosts"
1468 type="ct:CurrencyType" minOccurs="0" maxOccurs="1"/>
1469                     <xs:element name="Remarks"
1470 type="ct:RemarksType" minOccurs="0"/>
1471                 </xs:sequence>
1472             </xs:complexType>
1473         </xs:element>
1474         <xs:element name="EmergencyResponseIssues"
1475 type="EmergencyResponseIssuesType" minOccurs="0" maxOccurs="unbounded"/>
1476         <xs:element name="StrategicDiscussion" type="xs:string"
1477 minOccurs="0" maxOccurs="1"/>
1478         <xs:element name="PlannedActions" type="xs:string"
1479 minOccurs="0" maxOccurs="1"/>
1480     </xs:sequence>
1481 </xs:complexType>
1482 <xs:complexType name="ReportVersionType">
1483     <xs:choice>
1484         <xs:element name="Version" type="ct:ValueListType"
1485 minOccurs="1" maxOccurs="1"/>
1486         <xs:element name="VersionDefault"
1487 type="ct:ReportVersionDefaultType" minOccurs="1" maxOccurs="1"/>
1488     </xs:choice>
1489 </xs:complexType>
1490 <xs:complexType name="IncidentLifecycleType">
1491     <xs:choice>
1492         <xs:element name="IncidentLifecycle" type="ct:ValueListType"
1493 minOccurs="1" maxOccurs="1"/>
1494         <xs:element name="IncidentLifecycleDefault"
1495 type="ct:IncidentLifecycleDefaultType" minOccurs="1" maxOccurs="1"/>
1496     </xs:choice>
1497 </xs:complexType>
1498 <xs:complexType name="ConfidenceType">
1499     <xs:choice>
1500         <xs:element name="Confidence" type="ct:ValueListType"
1501 minOccurs="1" maxOccurs="1"/>
1502         <xs:element name="ConfidenceDefault"
1503 type="ct:ConfidenceDefaultType" minOccurs="1" maxOccurs="1"/>
1504     </xs:choice>
1505 </xs:complexType>

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1506     <xs:complexType name="UrgencyType">
1507         <xs:choice>
1508             <xs:element name="Urgency" type="ct:ValueListType"
1509 minOccurs="1" maxOccurs="1"/>
1510             <xs:element name="UrgencyDefault" type="ct:UrgencyDefaultType"
1511 minOccurs="1" maxOccurs="1"/>
1512         </xs:choice>
1513     </xs:complexType>
1514     <xs:complexType name="SeverityType">
1515         <xs:choice>
1516             <xs:element name="Severity" type="ct:ValueListType"
1517 minOccurs="1" maxOccurs="1"/>
1518             <xs:element name="SeverityDefault"
1519 type="ct:SeverityDefaultType" minOccurs="1" maxOccurs="1"/>
1520         </xs:choice>
1521     </xs:complexType>
1522     <xs:complexType name="ImmediateNeedsCategoryType">
1523         <xs:choice>
1524             <xs:element name="ImmediateNeedsCategory"
1525 type="ct:ValueListType" minOccurs="1" maxOccurs="1"/>
1526             <xs:element name="ImmediateNeedsCategoryDefault"
1527 type="ct:ImmediateNeedsDefaultType" minOccurs="1" maxOccurs="1"/>
1528         </xs:choice>
1529     </xs:complexType>
1530     <xs:complexType name="IncidentInfoType">
1531         <xs:sequence>
1532             <xs:element name="IncidentName" type="xs:string" minOccurs="1"
1533 maxOccurs="unbounded"/>
1534             <xs:element name="IncidentType" type="IncidentTypeType"
1535 minOccurs="0" maxOccurs="unbounded"/>
1536             <xs:element name="IncidentComplexity" type="ComplexityType"
1537 minOccurs="0" maxOccurs="1"/>
1538             <xs:element name="IncidentStartDateTime"
1539 type="ct:EDXLDateTimeType" minOccurs="0" maxOccurs="1"/>
1540             <xs:element name="GeographicSize">
1541                 <xs:complexType>
1542                     <xs:sequence>
1543                         <xs:element name="IncidentGeographicSize"
1544 type="xs:unsignedLong" minOccurs="0" maxOccurs="1"/>
1545                         <xs:element name="Estimate"
1546 type="ct:EstimateType" minOccurs="0"/>
1547                     </xs:sequence>
1548                 </xs:complexType>
1549             </xs:element>
1550             <xs:element name="DisasterInformation"
1551 type="DisasterInformation" minOccurs="0" maxOccurs="unbounded"/>
1552             <xs:element name="IncidentLocation" type="ct:EDXLLocationType"
1553 minOccurs="1" maxOccurs="1"/>
1554             <xs:element name="JurisdictionInformation" type="Jurisdiction"
1555 minOccurs="0" maxOccurs="unbounded"/>
1556             <xs:element name="IncidentStaging" type="StagingArea"
1557 minOccurs="0" maxOccurs="unbounded"/>
1558         </xs:sequence>
1559     </xs:complexType>
1560     <xs:complexType name="IncidentTypeType">
1561         <xs:choice>
1562             <xs:element name="IncidentType" type="ct:ValueListType"
1563 minOccurs="1" maxOccurs="1"/>
1564             <xs:element name="IncidentTypeDefault"
1565 type="ct:IncidentTypeDefaultType" minOccurs="1" maxOccurs="1"/>
1566         </xs:choice>
1567     </xs:complexType>
1568     <xs:complexType name="PositionType">
1569         <xs:choice>

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1570         <xs:element name="Position" type="ct:ValueKeyStringPairType"
1571 minOccurs="1" maxOccurs="1"/>
1572         <xs:element name="PositionDefault"
1573 type="ct:PositionDefaultType" minOccurs="1" maxOccurs="1"/>
1574     </xs:choice>
1575 </xs:complexType>
1576 <xs:complexType name="CasualtyAndIllnessCountCategoryType">
1577     <xs:choice>
1578         <xs:sequence>
1579             <xs:element name="CountCategory" type="ct:ValueKeyType"
1580 minOccurs="1" maxOccurs="1"/>
1581             <xs:element name="Remarks" type="ct:RemarksType"
1582 minOccurs="0"/>
1583             <xs:element name="Estimate" type="ct:EstimateType"
1584 minOccurs="0"/>
1585         </xs:sequence>
1586         <xs:sequence>
1587             <xs:element name="CountCategoryDefault"
1588 type="ct:CasualtyAndIllnessCountCategoryDefaultType" minOccurs="1"
1589 maxOccurs="1"/>
1590         </xs:sequence>
1591     </xs:choice>
1592 </xs:complexType>
1593 <xs:complexType name="SignificantEventsType">
1594     <xs:choice>
1595         <xs:element name="SignificantEvents" type="ct:ValueListType"
1596 minOccurs="1" maxOccurs="1"/>
1597         <xs:element name="SignificantEventsDefault"
1598 type="ct:SignificantEventsDefaultType" minOccurs="1" maxOccurs="1"/>
1599     </xs:choice>
1600 </xs:complexType>
1601 <xs:complexType name="LifeAndSafetyThreatType">
1602     <xs:choice>
1603         <xs:element name="LifeAndSafetyThreat" type="ct:ValueListType"
1604 minOccurs="1" maxOccurs="1"/>
1605         <xs:element name="LifeAndSafetyThreatDefault"
1606 type="ct:LifeAndSafetyThreatDefaultType" minOccurs="1" maxOccurs="1"/>
1607     </xs:choice>
1608 </xs:complexType>
1609 <xs:complexType name="InfrastructureAffectedType">
1610     <xs:choice>
1611         <xs:element name="InfrastructureAffected"
1612 type="ct:ValueKeyStringPairType" minOccurs="1" maxOccurs="1"/>
1613         <xs:element name="InfrastructureAffectedDefault"
1614 type="ct:InfrastructureAffectedDefaultType" minOccurs="1" maxOccurs="1"/>
1615     </xs:choice>
1616 </xs:complexType>
1617 <xs:complexType name="PropertyDamageType">
1618     <xs:choice>
1619         <xs:element name="PropertyDamage"
1620 type="ct:ValueKeyIntPairType" minOccurs="1" maxOccurs="1"/>
1621         <xs:element name="PropertyDamageDefault"
1622 type="ct:PropertyDamageDefaultType" minOccurs="1" maxOccurs="1"/>
1623     </xs:choice>
1624 </xs:complexType>
1625 <xs:complexType name="EmergencyResponseIssuesType">
1626     <xs:choice>
1627         <xs:element name="EmergencyResponseIssues"
1628 type="ct:ValueKeyStringPairType" minOccurs="1" maxOccurs="1"/>
1629         <xs:element name="EmergencyResponseIssuesDefault"
1630 type="ct:EmergencyResponseIssuesDefaultType" minOccurs="1" maxOccurs="1"/>
1631     </xs:choice>
1632 </xs:complexType>
1633 <xs:complexType name="ComplexityType">

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1634         <xs:choice>
1635             <xs:element name="Complexity" type="ct:ValueListType"
1636 minOccurs="1" maxOccurs="1"/>
1637             <xs:element name="ComplexityDefault"
1638 type="ct:ComplexityDefaultType" minOccurs="1" maxOccurs="1"/>
1639         </xs:choice>
1640     </xs:complexType>
1641     <xs:complexType name="Jurisdiction">
1642         <xs:sequence>
1643             <xs:element name="Name" type="xs:string" minOccurs="1"
1644 maxOccurs="1"/>
1645             <xs:element name="JurisdictionSize">
1646                 <xs:complexType>
1647                     <xs:sequence>
1648                         <xs:element name="GeographicSize"
1649 type="xs:unsignedLong" minOccurs="1" maxOccurs="1"/>
1650                         <xs:element name="Estimate"
1651 type="ct:EstimateType" minOccurs="0"/>
1652                     </xs:sequence>
1653                 </xs:complexType>
1654             </xs:element>
1655             <xs:element name="Location" type="ct:EDXLLocationType"
1656 minOccurs="1" maxOccurs="1"/>
1657             <xs:element name="Description" type="xs:string" minOccurs="1"
1658 maxOccurs="1"/>
1659         </xs:sequence>
1660     </xs:complexType>
1661     <!--/Complex Types in Documet Order-->
1662     <!--Root Element-->
1663     <xs:element name="SitRep" type="SitRep"/>
1664     <xs:complexType name="SitRep">
1665         <xs:sequence>
1666             <xs:element name="MessageID" type="ct:EDXLStringType"
1667 minOccurs="1" maxOccurs="1"/>
1668             <xs:element name="PreparedBy" type="ct:PersonTimePairType"
1669 minOccurs="1" maxOccurs="1"/>
1670             <xs:element name="AuthorizedBy" type="ct:PersonTimePairType"
1671 minOccurs="1" maxOccurs="1"/>
1672             <xs:element name="ReportPurpose" type="ct:EDXLStringType"
1673 minOccurs="1" maxOccurs="1"/>
1674             <xs:element name="ReportNumber" type="ct:EDXLStringType"
1675 minOccurs="1" maxOccurs="1"/>
1676             <xs:element name="ReportVersion" type="ReportVersionType"
1677 minOccurs="1" maxOccurs="1"/>
1678             <xs:element name="ForTimePeriod" type="ct:TimePeriodType"
1679 minOccurs="1" maxOccurs="1"/>
1680             <xs:element name="ReportTitle" type="ct:EDXLStringType"
1681 minOccurs="0" maxOccurs="1"/>
1682             <xs:element name="IncidentID" type="ct:EDXLStringType"
1683 minOccurs="1" maxOccurs="unbounded"/>
1684             <xs:element name="IncidentLifecyclePhase"
1685 type="IncidentLifecycleType" minOccurs="0" maxOccurs="unbounded"/>
1686             <xs:element name="OriginatingMessageID"
1687 type="ct:EDXLStringType" minOccurs="0" maxOccurs="1"/>
1688             <xs:element name="PrecedingMessageID" type="ct:EDXLStringType"
1689 minOccurs="0" maxOccurs="unbounded"/>
1690             <xs:element name="Urgency" type="UrgencyType" minOccurs="0"
1691 maxOccurs="1"/>
1692             <xs:element name="ReportConfidence" type="ConfidenceType"
1693 minOccurs="1" maxOccurs="1"/>
1694             <xs:element name="Severity" type="SeverityType" minOccurs="1"
1695 maxOccurs="1"/>
1696             <xs:element name="ReportingLocation"
1697 type="ct:EDXLLocationType" minOccurs="0" maxOccurs="1"/>

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1698         <xs:element name="ActionPlan" type="ct:EDXLStringType"
1699 minOccurs="0" maxOccurs="1"/>
1700         <xs:element name="NextContact" type="ct:EDXLDateTimeType"
1701 minOccurs="0" maxOccurs="1"/>
1702         <xs:element name="Report" type="IReport" minOccurs="1"
1703 maxOccurs="1"/>
1704     </xs:sequence>
1705 </xs:complexType>
1706 <!--End Root-->
1707 <!--Subreport Types-->
1708 <xs:element name="ManagementReportingSummary"
1709 type="ManagementReportingSummary"/>
1710 <xs:element name="ResponseResourcesTotals" type="ResponseResourcesTotals"/>
1711 <xs:element name="FieldObservation" type="FieldObservation"/>
1712 <xs:element name="SituationInformation" type="SituationInformation"/>
1713 <xs:element name="CasualtyAndIllnessSummary"
1714 type="CasualtyAndIllnessSummary"/>
1715 <xs:complexType name="FieldObservation">
1716 <xs:complexContent>
1717 <xs:extension base="IReport">
1718 <xs:sequence>
1719 <xs:element name="ObservationLocation"
1720 type="ct:EDXLLocationType" minOccurs="1" maxOccurs="1"/>
1721 <xs:element name="ImmediateNeeds"
1722 type="ct:EDXLStringType" minOccurs="1" maxOccurs="1"/>
1723 <xs:element name="ImmediateNeedsCategory"
1724 type="ImmediateNeedsCategoryType" minOccurs="0" maxOccurs="unbounded"/>
1725 <xs:element name="ObservationText"
1726 type="xs:string" minOccurs="1" maxOccurs="1"/>
1727 </xs:sequence>
1728 </xs:extension>
1729 </xs:complexContent>
1730 </xs:complexType>
1731 <xs:complexType name="SituationInformation">
1732 <xs:complexContent>
1733 <xs:extension base="IReport">
1734 <xs:sequence>
1735 <xs:element name="PrimaryIncidentInformation"
1736 type="IncidentInfoType" minOccurs="0" maxOccurs="1"/>
1737 <xs:element name="SubIncidentInformation"
1738 minOccurs="0" maxOccurs="unbounded">
1739 <xs:complexType>
1740 <xs:sequence>
1741 <xs:element
1742 name="SubIncident" type="IncidentInfoType" minOccurs="0"
1743 maxOccurs="unbounded"/>
1744 </xs:sequence>
1745 </xs:complexType>
1746 </xs:element>
1747 </xs:sequence>
1748 </xs:extension>
1749 </xs:complexContent>
1750 </xs:complexType>
1751 <xs:complexType name="ResponseResourcesTotals">
1752 <xs:complexContent>
1753 <xs:extension base="IReport">
1754 <xs:sequence>
1755 <xs:element name="ResourceTotal"
1756 type="ResponseResourceTotals" minOccurs="0" maxOccurs="unbounded"/>
1757 <xs:element name="OrganizationAndAssignments"
1758 type="CommandOrganization" minOccurs="0" maxOccurs="unbounded"/>
1759 </xs:sequence>
1760 </xs:extension>
1761 </xs:complexContent>

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1762     </xs:complexType>
1763     <xs:complexType name="CasualtyAndIllnessSummary">
1764         <xs:complexContent>
1765             <xs:extension base="IReport">
1766                 <xs:sequence>
1767                     <xs:element name="SummaryCount"
1768 type="CasualtyAndIllnessCategory" minOccurs="0" maxOccurs="unbounded"/>
1769                     <xs:element name="NotifiableDiseaseNumbers"
1770 type="NotifiableDiseaseNumbers" minOccurs="0" maxOccurs="unbounded"/>
1771                 </xs:sequence>
1772             </xs:extension>
1773         </xs:complexContent>
1774     </xs:complexType>
1775     <xs:complexType name="ManagementReportingSummary">
1776         <xs:complexContent>
1777             <xs:extension base="IReport">
1778                 <xs:sequence>
1779                     <xs:element name="SituationSummary"
1780 type="SituationSummary" minOccurs="0" maxOccurs="1"/>
1781                     <xs:element name="DecisionSupportInformation"
1782 type="IncidentDecisionSupportInformation" minOccurs="0" maxOccurs="1"/>
1783                     <xs:element name="JurisdictionInformation"
1784 type="Jurisdiction" minOccurs="0" maxOccurs="unbounded"/>
1785                 </xs:sequence>
1786             </xs:extension>
1787         </xs:complexContent>
1788     </xs:complexType>
1789 </xs:schema>

```

Appendix C. Time Elements (Constraints Apply to All Time Elements)

| | |
|------------------------|--|
| Element | ForTimePeriod |
| Type | ct:TimePeriodType |
| Usage | REQUIRED |
| Definition | <p>The combination of the FromDateTime and the ToDateTime represents the ForTimePeriod addressed by this SitRep ReportNumber and Version (for which this report applies). This period should include all of the time since the last SitRep "ReportNumber"/"ReportVersion" was submitted, or if it is the initial SitRep IReport "ReportType"(Originating message), it should cover the time lapsed since the incident or event started. The time period may include one operational period, but may also include greater than an Operational Period based on agency/organizational reporting requirements.</p> <p>All elements of information contained in the SitRep IReport "ReportType" always apply only to the combination of the FromDateTime and the ToDateTime, equaling the ForTimePeriod.</p> |
| Constraints | <p>(1) The date and time SHALL be represented in the DateTime Data format (e.g., "2002-05-24T16:49:00-07:00" for 24 May 2002 at 16: 49 PDT).</p> <p>(2) Alphabetic timezone designators such as "Z" MUST NOT be used. The timezone for UTC MUST be represented as "-00:00".</p> <p>All [dateTime] elements SHALL be specified in the form "YYYY-MM-DDThh:mm:ssXzh:zm" where:</p> <p>YYYY indicates the year</p> <p>MM indicates the month</p> <p>DD indicates the day</p> <p>T indicates the symbol "T" marking the start of the required time section</p> <p>hh indicates the hour</p> <p>mm indicates the minute</p> <p>ss indicates the second</p> <p>X indicates either the symbol "+" if the preceding date and time are in a time zone ahead of UTC, or the symbol "-" if the preceding date and time are in a time zone behind UTC. If the time is in UTC, the symbol "-" will be used.</p> <p>zh indicates the hours of offset from the preceding date and time to UTC, or "00" if the preceding time is in UTC</p> <p>zm indicates the minutes of offset from the preceding date and time to UTC, or "00" if the preceding time is in UTC</p> <p>Used in SitRep element / container</p> |
| Source | ICS 203, 207, 209, 215 |
| Requirements Supported | Report-DateTime-Information |

Appendix D. Examples

Example code for each of the Situation Reports contained in this specification are available at: <http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/csd01/schemas-and-examples/>

These examples show all required and optional elements for each of the reports.

D.1 ICS209 Web Form Example

The following example shows how a typical Incident Command System (ICS) form ICS209 using EDXL-SitRep-v1.0 could be filled out. The six images that follow show vertically sequential web browser screenshots that use the code for the XSLT Stylesheet and the example code for this example that are also available at <http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/csd01/schemas-and-examples/>

The screenshot displays a web browser window titled "ICS-209.html" with the address bar showing a file path. The form is titled "Incident Status Summary (ICS-209)" and is divided into several sections:

| | | | | |
|---|---|--|--|--|
| *1: Incident Name Hurricane Test | | *2: Incident Number: 1234 | | |
| *3: Report Version: (check one box on left): <input type="checkbox"/> Initial Rpt# (if used): <input type="checkbox"/> Update <input type="checkbox"/> Final | | *4: Incident Commander(s) & Agency or Organization: | *5: Incident Management Organization: | *6: Incident Start Date/Time Date: 2011-08-02 Time: 01:18 Time Zone: -06:00 |
| *7: Current Incident Size or Area Involved (use unit label -- eg., "sq mi," "city block"): 22 | *8: Percent (%) Contained 8 Completed | *9: Incident Definition: Hurricane | *10: Incident Complexity Level: Very Complex | *11: For Time Period: From Date/Time: 2011-08-02/01:18 To Date/Time: 2011-08-02/01:18 |

Approval & Routing Information

| | |
|---|--|
| *12: Prepared By: Print Name: James Smith ICS Position: Date/Time Prepared: 2011-08-02/01:18 | *13: Date/Time Submitted: Time Zone: |
| *14: Approved By: Print Name: John Doe ICS Position: Date/Time Prepared: 2011-08-02/01:18 | *15: Primary Location, Organization, or Agency Sent To: |

Incident Location Information

| | | |
|---|---|---|
| *16: State: | *17: County/Parish/Borough: | *18: City: |
| *19: Unit or Other: | *20: Incident Jurisdiction: | *21: Incident Location Ownership (if different than jurisdiction) |
| *22: Longitude (indicate format): Latitude (indicate format): | *23: US National Grid Reference: | *24: Legal Description (township, section, range): |

| | | | | | |
|---|--|---------------------------------|--|---|--|
| 22. Longitude (indicate format): | | 23. US National Grid Reference: | | 24. Legal Description (township, section, range): | |
| Latitude (indicate format): | | | | | |
| 25. Short Location or Area Description (list all affected areas or a reference point): | | | | 26. UTM Coordinates: | |
| 27. Note any electronic geospatial data included or attached (indicate data format, content, and collection time information and labels): | | | | | |
| Incident Summary | | | | | |
| 28. Significant Events for the Time Period Reported: (summarize significant progress made, evacuations, incident growth, etc.): | | | | | |
| 29. Primary Materials or Hazards Involved (hazardous chemicals, fuel types, infectious agents, radiation, etc): | | | | | |
| Possible Disease outbreak | | | | | |
| 30. Damage Assessment Information (summarize damage and/or restriction of use or availability to residential or commercial property, natural resources, critical infrastructure and key resources, etc.): | | | | A. Structural Summary | |
| | | | | B. # Threatened (72 hrs) | |
| | | | | C. # Damaged | |
| | | | | D. # Destroyed | |
| | | | | E. Single Residences | |
| Damage is severe | | | | F. Nonresidential Commercial Property | |
| | | | | Other minor Structures | |
| | | | | Other | |
| Additional Incident Decision Support Information- | | | | | |
| 31. Public Status Summary: | | A. # This Reporting Period | | B. Total # to Date | |
| C. Indicate Number of Civilians (Public Below): | | | | | |
| D. Fatalities | | | | | |
| E. With Injuries/Illness | | | | | |
| F. Trapped/In Need of Rescue | | | | | |
| G. Missing (note if estimated) | | | | | |
| H. Evacuated (note if estimated) | | | | | |
| I. Sheltering in Place (note if est) | | | | | |
| 32. Responder Status Summary: | | A. # This Reporting Period | | B. Total # to Date | |
| C. Indicate Number of Civilians (Public Below): | | | | | |
| D. Fatalities | | | | | |
| E. With Injuries/Illness | | | | | |
| F. Trapped/In Need of Rescue | | | | | |
| G. Missing | | | | | |

ICS-209.html

file:///C:/EM%20TC/EDXL-SR/1-EDXL-SitRep-Spec-v01-v1.0/EDXL-SitRep-v1.0-WDs/Schemas-v9/ICS-209.html

For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

| |
|--|
| <p>36. Projected Incident Activity, Potential, Movement, Escalation, or Spread and influencing factors during the next operational period and in 12-, 24-, 48-, and 72-hour timeframes</p> <p>12 hours: Treat and transport a</p> <p>24 hours:</p> <p>48 hours:</p> <p>72 hours:</p> <p>Anticipated After 72 hours:</p> |
| <p>37. Strategic Objectives (defined planned end-state for incident):</p> |
| <p>38. Current Incident Threat Summary and Risk Information in 12-, 24-, 48-, and 72-hour timeframes and beyond. Summarize primary incident threats to life, property, communities and community stability, residences, health care facilities, other critical infrastructure and key resources, commercial facilities, natural and environmental resources, cultural resources, and continuity of operations and/or business. Identify corresponding incident-related potential economic or cascading impacts.</p> <p>12 hours:</p> <p>24 hours:</p> <p>48 hours:</p> <p>72 hours:</p> <p>Anticipated After 72 hours:</p> |
| <p>39. Critical Resource Needs in 12-, 24-, 48-, and 72-hour timeframes and beyond to meet critical incident objectives. List resource category, kind, and/or type, and amount needed, in priority order:</p> <p>12 hours: Type I ALS Ambulances</p> <p>24 hours: Type II ALS Ambulances</p> <p>48 hours: Type III ALS Ambulances</p> |

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| | | | | | |
|---|--|----|---|---|-------|
| ICS-209.html | | | file:///C:/EM%20TC/EDXL-SR/1-EDXL-SitRep-Spec-v01-v1.0/EDXL-SitRep-v1.0-WDs/Schemas-v9/ICS-209.html | | |
| For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now... | | | | | |
| I. Sheltering in Place (note if est.) | | | G. Missing | | |
| J. In Temporary Shelters (note if est.) | | | H. Sheltering in Place | | |
| K. Have Received Mass immunizations | | | I. Have Received Immunizations | | |
| L. Require Immunizations (note if est.) | | | J. Require Immunizations | | |
| M. In Quarantine | | | K. In Quarantine | | |
| N. Total # Civilians (Public) Affected: | | 22 | 44 | N. Total # Civilians (Public) Affected: | 12 33 |
| 33. Life, Safety, and Health Status/Threat Remarks: | | | 34. Life, Safety, and Health Threat Management: | | |
| humans can die | | | A. Check if Active | | |
| 35. Weather concerns (synopsis of current and predicted weather, discuss related factors that may cause concern); | | | A. No Likely Threat <input type="checkbox"/> | | |
| Secondary flooding damage | | | B. Potential Future Threat <input type="checkbox"/> | | |
| | | | C. Mass Notifications in Progress <input type="checkbox"/> | | |
| | | | D. Mass Notifications Completed <input type="checkbox"/> | | |
| | | | E. No Evacuation(s) Imminent <input type="checkbox"/> | | |
| | | | F. Planning for Evacuation <input type="checkbox"/> | | |
| | | | G. Planning for Shelter-in-Place <input type="checkbox"/> | | |
| | | | H. Evacuation(s) in Progress <input type="checkbox"/> | | |
| | | | I. Shelter-in-Place in Progress <input type="checkbox"/> | | |
| | | | J. Repopulation in Progress <input type="checkbox"/> | | |
| | | | K. Mass Immunization in Progress <input type="checkbox"/> | | |
| | | | L. Mass Immunization Complete <input type="checkbox"/> | | |
| | | | M. Quarantine in Progress <input type="checkbox"/> | | |
| | | | N. Area Restriction in Effect <input type="checkbox"/> | | |
| 36. Projected Incident Activity, Potential, Movement, Escalation, or Spread and influencing factors during the next operational period and in 12-,24-,48-,and 72-hour timeframes | | | | | |

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ICS-209.html

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For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

48 hours:Type III ALS Ambulances

72 hours:Type IV ALS Ambulances

Anticipated After 72 hours:Type V ALS Ambulance

40. Strategic Discussion: Explain the relation of overall strategy, constraints, and current available information to:

1) critical resource needs identified above,
2) the Incident Action Plan and magement objectives and targets,
3) anticipated results.

Explain major problems and concerns such as operational challenges, incident management problems, and social, political, economic, or environmental concerns or impacts.

Need to evac patients

41. Planned Actions for Next Operational Period:Continue Triage and Treatment

42. Projected Final Incident Size/Area(use unit label -- e.g., "sq mi"): 1

43. Anticipated Incident Management Completion Date:(use unit label -- e.g., "sq mi"): 2011-08-02

44. Projected Significant Resource Demobilization Start Date:

45. Estimated Incident Costs to Date:10.00 DOL

46. Projected Final Incident Cost Estimate:10.00 DOL

47. Remarks(or continuation of any blocks above -- list block number in notation):

Incident Resource Commitment Summary

| 48. Agency or Organization | 49. Resources (summarize resources by category, kind, and/or type: show # of resources on top 1/2 of box, show # of personnel associated with resource on bottom 1/2 of box): | 50. Additional Personnel (includes not assigned to a resource: | 51. Total Personnel (includes those associated with resources - e.g., aircraft or engines and |
|----------------------------|---|--|---|
| | | | |

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ICS-209.html

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| | | | | |
|--|---------------|---|--|------------------------------------|
| | | | | Engineer and individual overhead): |
| FEMA | Wood | 2 | | |
| FEMA | Water | 2 | | |
| FEMA | Plastic Tarps | 2 | | |
| FEMA | Sheeting | 2 | | |
| State EOC | Wood | 2 | | |
| State EOC | Water | 2 | | |
| State EOC | Plastic Tarps | 2 | | |
| State EOC | Sheeting | 2 | | |
| | | | | |
| 53. Additional Cooperating and Assisting Organizations Not Listed Above: | | | | |
| | | | | |

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Appendix E. Revision History

| Revision | Date | Editor | Changes Made |
|------------------------|---------------|------------|---|
| edxl-sitrep-v1.0-wd08 | 23 Nov. 2010 | Rex Brooks | First Full Working Draft |
| edxl-sitrep-v1.0-wd011 | 31 Dec. 2010 | Rex Brooks | Major Revision Working Draft |
| edxl-sitrep-v1.0-wd015 | 10 Aug. 2011 | Rex Brooks | Major Revision Working Draft |
| edxl-sitrep-v1.0-wd016 | 27 Sept. 2011 | Rex Brooks | Major Revision Working Draft submitted for Emergency Management Technical Committee approval as Committee Specification Draft |
| edxl-sitrep-v1.0-wd18 | 24 April 2012 | Rex Brooks | Major Revision Working Draft submitted for Emergency Management Technical Committee approval as Committee Specification Draft |