



Emergency Data Exchange Language Resource Messaging (EDXL-RM) 1.0

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urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequisitionResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformation
urn:oasis:names:tc:emergency:EDXL:RM:1.0:OfferUnsolicitedResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReleaseResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestReturn
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestReturn
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestQuote
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestQuote
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResourceDeploymentStatus
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReportResourceDeploymentStatus
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestExtendedDeploymentDuration
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestExtendedDeploymentDuration

Abstract:

This XML-based Emergency Data Exchange Language (EDXL) Resource Messaging specification describes a suite of standard messages for data sharing among emergency and other information systems that deal in requesting and providing emergency equipment, supplies, people and teams. This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding.

Status:

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1 Introduction

1.1 Purpose

As detailed in the EDXL-DE Specification, the goal of the 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 will accomplish 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 primary purpose of the Emergency Data Exchange Language Resource Messaging (EDXL-RM) Specification is to provide a set of standard formats for XML emergency response messages. These Resource Messages are specifically designed as payloads of Emergency Data Exchange Language Distribution Element- (EDXL-DE)-routed messages. Together EDXL-DE and EDXL-RM are intended to expedite all activities associated with resources needed to respond and adapt to emergency incidents. The Distribution Element may be thought of as a "container". It provides the information to route "payload" message sets (such as Alerts or Resource Messages), by including key routing information such as distribution type, geography, incident, and sender/recipient IDs.

The Resource Message is constrained to the set of Resource Message Types contained in this specification. The Resource Message is intended to be the payload or one of the payloads of the Distribution Element which contains it.

1.2 History

Disaster Management (DM) is a communications program in the Department of Homeland Security's (DHS) Office for Interoperability and Compatibility (OIC) and managed by the Science and Technology (S&T) Directorate. The program was initiated as one of the President's e-government initiatives. DM's mission is to serve as the program within the Federal Government to help local, tribal, state, and federal public safety and emergency response agencies improve public safety response through more effective and efficient interoperable data sharing. The DHS DM program sponsors a Practitioner Steering Group (PSG).

The DM 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-DM program. The group is comprised of representatives of major emergency response associations, setting priorities and providing recommendations regarding messaging standards development as well as the other facets of the DM program.

The PSG specified messaging standards-based systems interoperability as the top priority for the DHS Disaster Management program. The EDXL Resource Messaging Specification effort was identified as the top priority standard by this group following the EDXL-DE. The requirements and specification effort was initiated by this group in partnership with industry members of the Emergency Interoperability Consortium (EIC) in a Standards Working Group (SWG). That group developed a draft specification which was submitted to the OASIS Emergency Management Technical Committee to begin work on this EDXL-RM specification.

45 The process remained the same as with the EDXL-DE specification with the exception that the Technical
46 Committee requested that the initial candidate specification submitted by the expert group be recast as a
47 formal Requirements Document according to a template that the Technical Committee provided to the
48 expert group. The candidate specification was then resubmitted along with this requested requirements
49 document.

50 1.3 Structure of the EDXL Resource Message

51 As stated in Section 1.1, the EDXL Resource Message specification defines 16 separate and specific
52 message types supporting the major communication requirements for allocation of resources across the
53 emergency incident life-cycle. This includes preparedness, pre-staging of resources, initial and ongoing
54 response, recovery and demobilization / release of resources.

55 The EDXL Resource Message structure is defined using successively more detailed or *constrained*
56 artifacts in the form of diagrams, figures and tables. The overall structure of the EDXL Resource Message
57 is first represented in a *reference model* referred to as the Element Reference Model (ERM). This overall
58 model is the foundation from which individual *constraint* schemas (individual resource message types)
59 are defined. The ERM (Section 3.2) with the Data Dictionary (Section 4) defines the overall structure of
60 Resource Messages including message structure (element cardinality), message element definitions and
61 cardinality which must be adhered to. An overall XML schema is also provided for the ERM.

62

63 Following overall Resource Message definition, each individual EDXL Resource Message type is defined.
64 Table 2 provides a matrix defining required, optional and conditional message elements for each EDXL
65 Resource Message. A section is then provided for each individual EDXL Resource Message (each
66 message *constrains* the overall ERM or reference model), providing the normative ERM, element
67 cardinality and optionality, business rules and message flow that defines each individual message type.
68 Message XML and example XML is also provided for each message.

69 The following descriptions of these artifacts are here only as preparation to better understand how to use
70 these diagrams, figures and tables

71 The non-normative Abstract Reference Model diagram in Figure 1 shows the abstract structural
72 relationships of the main components or elements. The normative ERM diagram in Figure 2 shows the
73 structural relationships of the main Resource Messaging elements. *Elements* are logical groupings of
74 message elements for purposes of defining message structure

- 75 1. The *EDXLResourceMessage* element itself is the top level element of this specification as a
76 whole, and contains the message elements that identify and describe the message with
77 information such as ID, DateTime, ContactInformation, MessageDescription and previous
78 message references;
- 79 2. An **IncidentInformation** element identifies and describes the incident with which the message is
80 concerned;
- 81 3. A **MessageRecall** element is needed when a message updates or cancels a previous message;
- 82 4. A **Funding** element specifies applicable codes and specific funding information;
- 83 5. A **ResourceInformation** element specifies the resource information or resource requirement.
84 The ResourceInformation element contains:
 - 85 a. A **Resource** element to identify and describe the specific resource or resources with
86 which the message is concerned, such as **ID**, **Name**, **Type** and **Description**. The
87 Resource element contains the following additional elements:
 - 88 i. An **OwnershipInformation** element; and,
 - 89 ii. A **ResourceStatus** element.
 - 90 b. A **ResponseInformation** element that identifies the Resource to which it applies,
91 specifies the **ResponseType** such as **Accept** or **Decline**, a **ResponseCode** and
92 **ResponseReason**;

- 93 c. An **AssignmentInformation** element to specify information such as **Quantity**,
94 **PriceQuote** and **OrderID**. The AssignmentInformation element includes:
- 95 i. An **AssignmentInstructions** element for specifying **ModeOfTransportation**,
96 **NavigationInstructions** and **ReportingInstructions**; and,
- 97 d. A **ScheduleInformation** element to specify a **ScheduleType**, such as
98 **RequestedArrival**, **RequestedDeparture**, **ActualArrival** and **Actual Departure**, as well
99 as **DateTime** and **Location**;
- 100 6. A **ContactInformation** element is organized separately to be reused in Resource Message
101 Elements as needed, and it reuses the **OASIS Customer Information Quality** Specifications;
- 102 7. A **LocationType** element is organized separately to be used in Resource Message elements as
103 needed, using the **geo-oasis:WhereType**;
- 104 8. A **ValueListType** element is organized and specified separately to be used in Resource Message
105 elements as needed.

106 Table 1 provides a Resource Message Type Summary of the 16 specific types of Resource Message.
107 This is useful for getting a quick overview of the message types contained in the specification.

108 Figure 3 illustrates the three primary types of behavior which Resource Messages enable:

- 109 • **Discovery**;
- 110 • **Ordering**; and
- 111 • **Deployment**.

112 Table 2 provides a Resource Message Type – Element Matrix where each row represents a specific
113 message element grouped by element group and each column represents a specific message type.
114 Using this matrix, one can determine whether any combination of message element and message type is
115 Required, Conditional, or Optional.

116 Finally, each specific message type is fully defined in Sections 3.4 through 3.19.

117

118 1.4 Terminology

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

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

125 The term “Provisional” as used in this specification is to be interpreted that the Request, Requisition or
126 Commit is accepted on a tentative; constrained or probationary basis; or that a Release is made on a
127 tentative, constrained or probationary basis.

128

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161 **1.6 Non-Normative References**

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172 **[EDXL-RM SF]** *EDXL Resource Messaging Standard Format for Resource Messaging*
173 *(candidate specification)* [http://www.oasis-](http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc)
174 [open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.d](http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc)
175 [oc](http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc), July 15, 2005

176 **[ISO 4217]** ISO 4217:2001, *Codes for the representation of currencies and funds*

177 **[ISO 4217 codes]** *ISO 4217 currency names and code elements*,
178 [http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_u](http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm)
179 [sed_standards_other/currency_codes/currency_codes_list-1.htm](http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm)

180 **[UCUM]** Gunther Schadow, Clement J. McDonald, *The Unified Code for Units of*
181 *Measure, Version 1.6*, <http://aurora.regenstrief.org/UCUM/ucum.html>,
182 Regenstrief Institute for Health Care, 2005

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2 Design Principles and Concepts (non-normative)

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

186

- Provide a standard message format for the Resource Message
- Provide separate specific formats for the distinct Resource Message Types
- 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

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2.1 Requirements for Design

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The initial requirements submitted to the Technical Committee by the EDXL Standards Working Group described in Section 1.2 can be reviewed:

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EDXL Resource Messaging Standard Requirements Supplement, workgroup

200

<http://www.oasisopen.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc>,
October 19, 2005

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In summary, the EDXL Resource Messaging specification should

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1. Define a detailed message structure for the following specific EDXL Resource Message Types: (Note that requirements that are self-evident from Message Type names are not separately listed)

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- a. RequestResource
 - b. ResponseToRequestResource
 - c. RequisitionResource
 - d. CommitResource
 - e. RequestInformation
 - f. ResponseToRequestInformation
 - g. OfferUnsolicitedResource
 - h. ReleaseResource
 - i. RequestReturn
 - j. ResponseToRequestReturn
 - k. RequestQuote
 - l. ResponseToRequestQuote
 - m. RequestResourceDeploymentStatus
 - n. ReportResourceDeploymentStatus
 - o. RequestExtendedDeploymentDuration
 - p. ResponseToRequestExtendedDeploymentDuration
2. Explicitly specify use of EDXL-DE as the routing mechanism for the EDXL Resource Message
 3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice of Resource demobilization and the ability to communicate information to provide for returning Resource
 4. Provide ability to accept or decline in a ResponseToRequestResource that indicates availability of the requested Resource or to accept or decline to an OfferUnsolicitedResource

- 230 5. Provide the ability to cancel any Resource Message (actual method is MessageRecall)
- 231 6. Provide the ability to reference specific incidents in Resource Message
- 232 7. Provide unique identifier for each message as well as the ability to reference previous
- 233 messages, including but not limited to originating message in a given sequence
- 234 8. Provide the ability to specify Date and Time of Resource Message, referenced messages,
- 235 scheduling information, assignment information and specific instructions
- 236 9. Provide the ability to report Disposition of referenced Resource Message(s)
- 237 10. Provide the ability to specify contact information of individuals responsible for Resource
- 238 Message(s) and/or Resource(s)
- 239 11. Provide the ability to specify funding information for Resources
- 240 12. Provide the ability to reference external lists for Resource Message content
- 241 13. Provide the ability to fully describe Resource(s)
- 242 14. Provide the ability to specify Special Requirements such as protective equipment or specific
- 243 skill credentials, e.g. certifications, licenses
- 244 15. Provide the ability to specify Resource Information for purposes beyond identification and
- 245 qualification such as scheduling and assignment.

246 **2.2 Distribution of EDXL-RM**

247 The primary purpose of the Emergency Data Exchange Language Resource Messaging (EDXL-RM)
248 Specification is to provide a set of standard formats for XML emergency messages. These Resource
249 Messages are specifically designed as payloads of the EDXL-DE. Together EDXL-DE and EDXL-RM are
250 intended to expedite activities associated with managing resources during all phases of Emergency
251 Management. Routing and distribution information is found only in the EDXL-DE and not in the EDXL-RM.

252 **2.2.1 EDXL DISTRIBUTION ELEMENT (EDXL-DE)**

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

257
258 The primary purpose of the Distribution Element is to facilitate the routing of emergency messages to
259 recipients. The Distribution Element may be thought of as a "container". It provides the information to
260 route "payload" message sets by including key routing information such as distribution type, geography,
261 incident, and sender/recipient IDs. Messages may be distributed to specific recipients, to a geographic
262 area, or based on codes such as agency type (police, fire, etc.).

263 **2.2.2 EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION**

264 The EDXL-DE is designed to carry one or more payloads called Content Objects. Each Content Object
265 may be well-formed XMLContent, or NonXMLContent. The EDXL-RM is designed to be well-formed
266 XMLContent for routing using the EDXL-DE. The EDXL-DE supports both context sensitive routing via
267 metadata (i.e. information about the Content Objects) and directed distribution (i.e. the sender specifies
268 specific recipients).

269
270 While the EDXL-RM is designed to be an EDXL-DE payload, other routing mechanisms may be used to
271 distribute EDXL-RM content if the message metadata is provided in the same form or if the sender
272 specifies specific recipients of the payload.

273 **2.3 Example Usage Scenarios**

274 Note: The following examples of usage scenarios were used as a basis for design and review of the
275 EDXL Resource Messaging Specification. These scenarios are non-normative and not intended to be
276 exhaustive or to reflect actual practices.

277 **2.3.1 SAFECOM Explosion**

278 This scenario follows the detection of a noxious aerosol substance leak at a chemical plant that produces
279 toxic materials. This scenario involves evacuations, requests for hazmat teams and the evolution of the
280 incident into an explosion that destroys the leak site and an adjacent building with casualties requiring
281 emergency healthcare teams, full incident command establishment, responses of various kinds and
282 cleanup.

283 Full use case available: [http://www.oasis-
284 open.org/committees/download.php/26805/EDXL_use_example_SafecomExplosion%20060805.doc](http://www.oasis-open.org/committees/download.php/26805/EDXL_use_example_SafecomExplosion%20060805.doc)

285 Explosion scenarios from the following source document provided scenario content for this use case:

286 “SAFECOM Statement of Requirements for Public Safety Wireless Communications and
287 Interoperability”
288 The SAFECOM Program
289 Department of Homeland Security
290 Version 1.0
291 March 10, 2004

292 **2.3.2 Cedar Fire Incident**

293 This is an actual use case that follows the events of the “Cedar” fire incident in late October and
294 November 2003 in San Diego County, California. Operation Center (EOC) has been activated, and
295 requests the agencies to be on alert. This scenario represents a large scale incident involving activation
296 of the state Emergency Operation Center (EOC). This use example is based upon four official source
297 documents which provide a detailed description of the incident and response, and provides independent
298 evaluations of overall response. The use example chronicles a lack of radio interoperability coupled with
299 poor coordination of mutual aid in the area, due to several concurrent fires back to back with other recent
300 fires in this geographical region.

301 Full use case available: [http://www.oasis-
302 open.org/committees/download.php/26803/EDXL_use_example_Fire061005.doc](http://www.oasis-open.org/committees/download.php/26803/EDXL_use_example_Fire061005.doc)

303 The following source documents provided scenario content for this use case:

- 304
- 305 1. Final Draft_ 2003 SD Co Fire Safety Review-no pics.pdf [http://www.oasis-
306 open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire
307 %20Safety%20Review-no%20pics.pdf](http://www.oasis-open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire%20Safety%20Review-no%20pics.pdf)
308
 - 309 2. Cedar Fire SDFD.pdf [http://www.oasis-
310 open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf](http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf)
311
 - 312 3. City of SD City Mgr Rpt Fire 2003.pdf [http://www.oasis-
313 open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fi
314 re%202003.pdf](http://www.oasis-open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf)
315
- 316 Firestorm 2003 Case Study – Final.pdf [http://www.oasis-
317 open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-
318 %20Final.pdf](http://www.oasis-open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-%20Final.pdf)

319 **2.3.3 Hurricane**

320 This scenario modeled a category 5 hurricane several months prior to the start of the 2005 hurricane
321 season in earnest, and follows many different kinds of resource requests and evolving situations as a
322 widespread incident with mass casualties and damage occurs.

323 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc)
324 [open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc](http://www.oasis-open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc)

325 The following source document provided scenario content for this use case: “Planning Scenarios,
326 Executive Summaries, Created for use in National, Federal, State and Local
327 Homeland Security Preparedness Activities” – Version 2.0 – The Homeland Security Council,
328 David Howe, Senior Director for Response and Planning – July 2004”
329 “Scenario 10: Natural Disaster – Major Hurricane
330 http://www.altheim.com/lit/planning_scenarios_exec_summary.html#p36

331 **2.3.4 Pandemic Influenza**

332 This scenario models an Influenza Pandemic outbreak at Phase 6 (Increased and pre-sustained
333 transmission in general population) as determined by the State Health Agency/Public Health Department.
334 It includes such activities as requesting medical facilities to take stock and determine what resources are
335 readily available and on hand (inventory of available supplies). It includes a wide range of resource
336 messages such as requests for vaccines and antivirals.

337
338 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc)
339 [open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc)
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3 EDXL Resource Messaging Model (Normative unless otherwise stated)

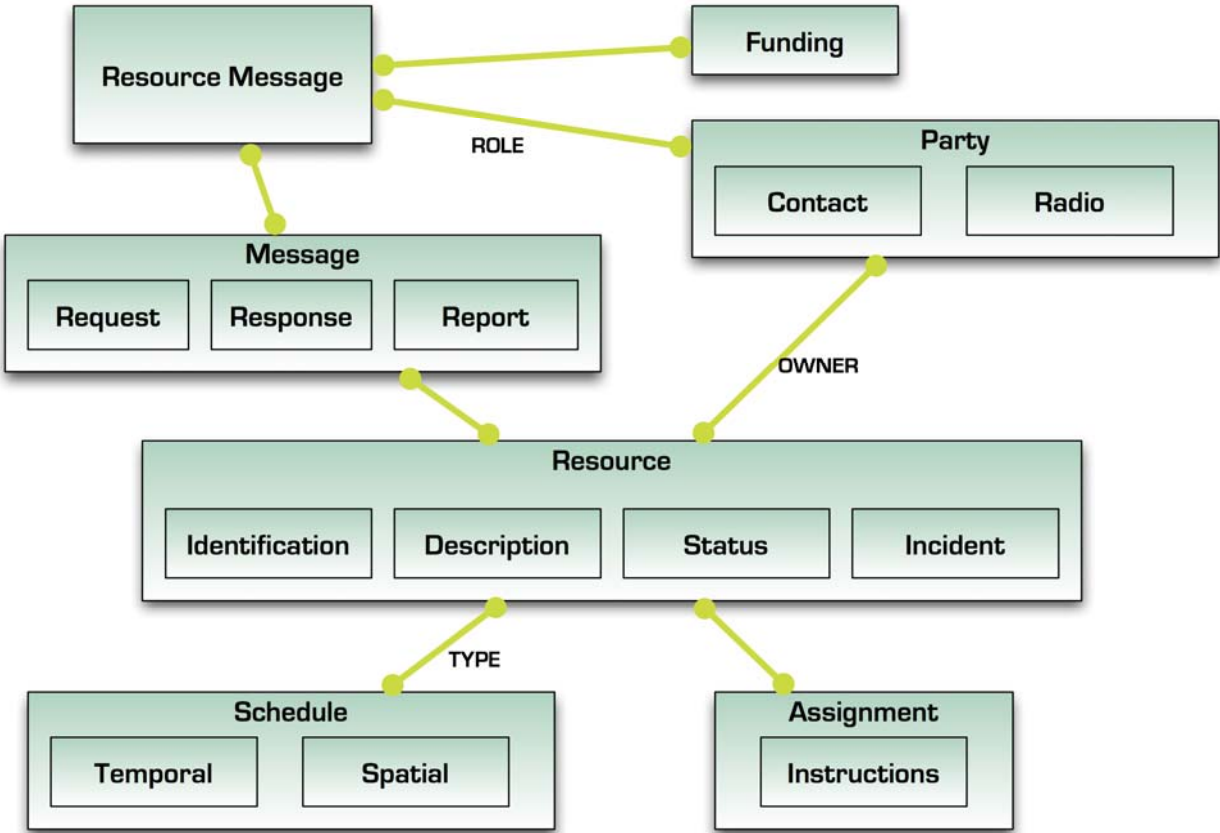
Section 3 of this Standard is normative unless otherwise stated. If any differences are found between any XML schema and its associated model, diagram, table or other artifact or text, then the XML schema shall always take precedence and the other artifact(s) must be changed to match the XML schema.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

3.1 Abstract Reference Model (Non-Normative)

Figure 1 below shows the Resource Messaging Abstract Reference Model (RM-ARM). The purpose of the RM-ARM is to highlight the high-level structure of the RM framework and the relationships between the main entities.

The Resource Message contains one of two major message categories: a Request or a Response message; or a minor message category type, or a Report message. These two major and one minor message categories form the underlying framework for all messages. The Resource Message also contains information on the Party or Parties (person or organization) that plays a significant Role in the message transaction. Funding information can also be specified.

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Figure 1: Resource Messaging – Abstract Reference Model

360 The core of any message is the Resource or Resources with which it is concerned. A Resource contains
361 information about its Identity, Description and Status. A Resource owner can also be identified.

362 A Resource may also have a schedule which includes Temporal and Spatial details. For example, the
363 expected arrival time and place for a specific resource. There are a number of types for Schedules.

364 A Resource may also have information about its Assignment including the identified Incident and
365 Instructions related to the incident assignment.

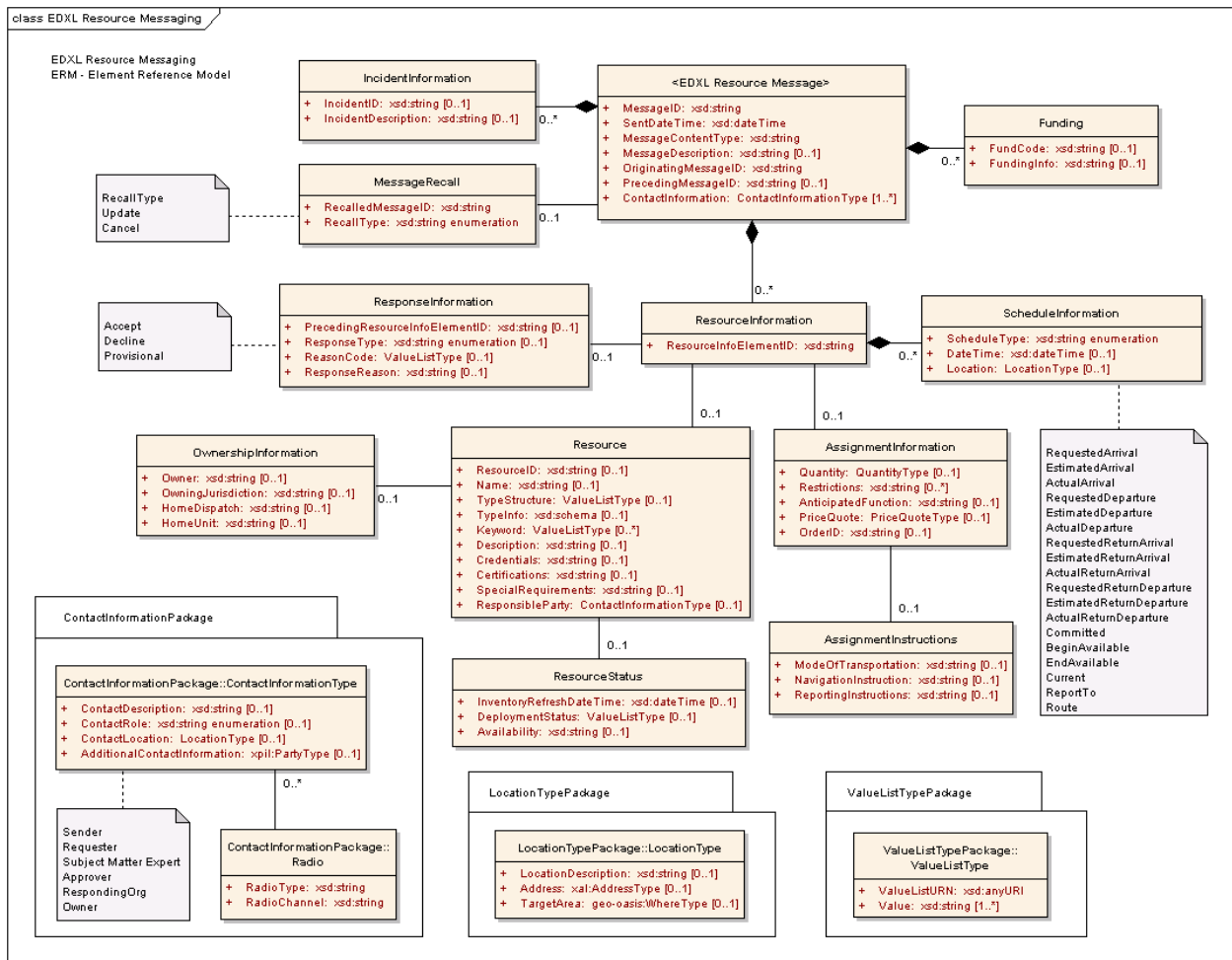
366

367 **3.2 Element Reference Model**

368 Figure 2 below shows the EDXL–RM Element Reference Model (ERM). The purpose of the ERM is to
 369 highlight the low-level structure of the RM framework and the relationships between the main entities and
 370 their elements.

371 It is important to note that the ERM should not be used as an implementation model as the exact
 372 semantics and structure are captured in the subsequent sections on the Resource Message Types.

373



374

375 *Figure 2: Resource Messaging – Element Reference Model*

376 The RM-ERM shows the element-level details for the main entities in the RM. The semantics for each of
 377 the elements is defined in Section 3.3.

378 **3.3 Resource Message Types**

379 The general RM framework is based on a Request/Response model. Most of the Request messages
 380 expect a Response, and in some cases, messages are used to notify others of changes or offers of
 381 resources.

382 An RM message MUST be carried as the payload of the EDXL-DE or a distribution mechanism with the
 383 distribution type values of Report, Update, Cancel, Request, Response, Dispatch, Ack and Error, as
 384 defined in EDXL-DE. For example, the acknowledgement of an RM message is handled by the
 385 distribution mechanism.

386 When a message recipient receives an RM message, it uses the EDXL-DE DistributionType value of Ack
 387 as an acknowledgement. An acknowledgement is intended to inform the sender that the RM message
 388 has been received.

389 The EDXL-RM provides the mechanism to recall or update a previously sent resource message through
 390 the EDXL MessageRecall element. The MessageRecall element, when present, contains the
 391 RecalledMessageID and the RecallType. The RecalledMessageID contains the MessageID of the
 392 message previously sent that is being either canceled or updated. If the RecallType element contains the
 393 value "Cancel", then the entire message specified in RecalledMessageID is to be canceled. If the
 394 RecallType element contains the value "Update", then the entire message specified in
 395 RecalledMessageID is replaced by the new message.

396 This two-way communication is characterized by two classes of primary actors. The Resource Consumer
 397 is an actor that needs or requires resources to undertake response to an incident. The Resource Supplier
 398 is an owner, or distributor, or manager of resources that can meet the needs of Resource Consumers.
 399 There may be more than one actor of each class for a given sequence of message exchanges, and there
 400 may also be other classes of actors besides these two primary types.

401 There are 16 resource messages defined in this specification, which are summarized in Table 1 below.

402 *Table 1: Resource Message Type Summary*

Message Type	Description	Message Sender
RequestResource	Message used to request needed resources from one or many recipients, possibly spawning multiple responses.	Resource Consumer
ResponseToRequestResource	Message used as the response to a "RequestResource". Allows sender to list resource(s) which they feel represent suitable match with a resource request.	Resource Supplier
RequisitionResource	Message used to "order" specific resource, or to confirm specific resource to be "ordered" relating to one or more responses to a "RequestResource".	Resource Consumer
CommitResource	Message used to agree or commit specific resource in response to a RequestResource or RequisitionResource,".	Resource Supplier
RequestInformation	Message used to ask resource questions or provide general description of situation and general resources needs.	Resource Consumer, Resource Supplier
ResponseToRequestInformation	Message used as the response to a RequestInformation message providing general information or to list resource that may meet the specified need.	Resource Supplier, Resource Consumer
OfferUnsolicitedResource	Message used to offer available resources (that have not been requested) to assist with an emergency response.	Resource Supplier
ReleaseResource	Message used at the incident to "release" (demobilize) resource back to its original Supplier.	Resource Consumer
RequestReturn	Message used to request release (demobilize) of resources back to its original point of assignment or to another location / assignment ("I want my stuff back").	Resource Supplier

Message Type	Description	Message Sender
ResponseToRequestReturn	Message used as the response to a "RequestReturn" indicating whether the resource may be released, with relevant time-line information.	Resource Consumer
RequestQuote	Message used to request a price quote from a seller or supplier.	Resource Consumer
ResponseToRequestQuote	Message used as the response to a "RequestQuote". Allows sender to list resource(s) which they feel represent suitable match with the request, with pricing information.	Resource Supplier
RequestResourceDeploymentStatus	Message used to request current "status" of resource.	Resource Consumer, Resource Supplier
ReportResourceDeploymentStatus	Message used to report on the current "status" of any resource.	Resource Consumer, Resource Supplier
RequestExtendedDeploymentDuration	A request initiated by the requester / receiver of resource, "I want to extend how long I need to keep this resource"	Resource Consumer
ResponseToRequestExtendedDeploymentDuration	Message used as the response to "RequestExtendedDeploymentDuration".	Resource Supplier

403 Table 1 above and Figure 3 below are informative only. They are included to show how the resource
404 messages might flow between the Resource Consumer and Resource Supplier during resource
405 management. Note, however, that this specification does not prescribe the sequence of message
406 exchanges, except for some dependencies between messages which are described in Section 3.3.

407 The Resource Messages can be used in three phases of resource management:

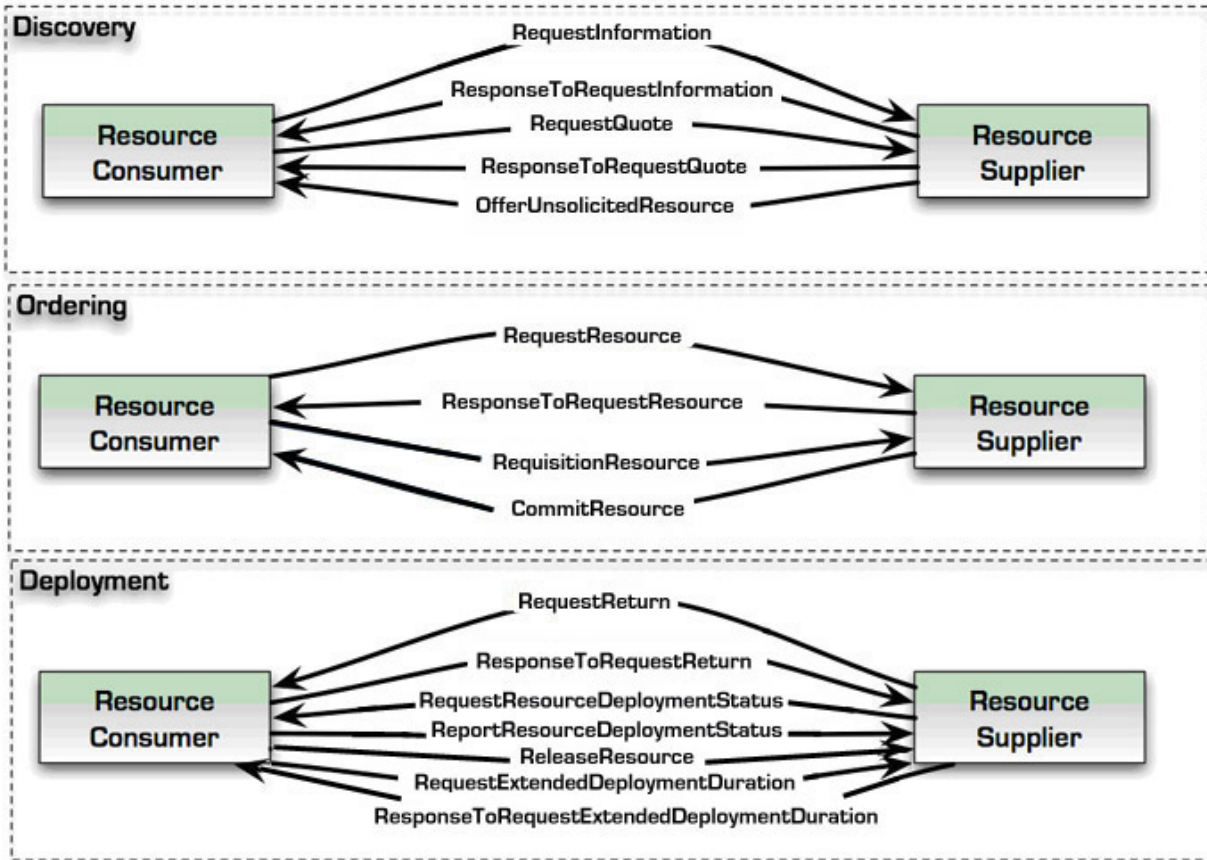
- 408 • Discovery,
- 409 • Ordering, and
- 410 • Deployment, as shown in Figure 3.

411 The Discovery phase enables Resource Consumers to find out about available resources, including their
412 costs, and offers of resources from Resource Suppliers.

413 The Ordering phase enables Resource Consumers to explicitly requisition Resources from Resource
414 Suppliers.

415 The Deployment phase enables both actors to find about the current status of resources in the field,
416 request extensions and returns.

417 It is important to note that this specification does not mandate an exact order and workflow of Resource
418 Messages. For example, the Ordering phase may actually only require the CommitResource message for
419 some actors.



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Figure 3: Resource Message Phases

424 Table 2 (below) summarizes all the Message Types and their element contents. The specific details on
 425 each of the Message Types are outlined in the following sections.

426

427 Table 2: Resource Message Type – Element Matrix (Key: R = Required, C = Conditional, O = Optional)
 428 N/A – Not Applicable to the message type

429

Schema Element	Message Element	Request Resource	Response to Request Resource	Requisition Resource	Commit Resource	Request Information	Response to Request Information	Offer Unspecified Resource	Release Resource	Request Return	Response to Request Return	Request Quote	Response to Request Quote	Request Resource Deployment Status	Response to Request Deployment Status	Report Resource Deployment Status	Request Extended Deployment Duration	Response to Request Extended Deployment Duration	
Resource Message	MessageID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	SentDateTime	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	MessageContentType	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	MessageDescription	O	O	O	O	R	O	O	O	O	O	O	O	O	O	O	O	O	O
	OriginatingMessageID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	PrecedingMessageID	N/A	R	O	R	O	R	N/A	O	O	R	O	R	O	O	O	O	O	R
	Incident Information	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	MessageRecall	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	Funding	O	O	R	O	O	O	N/A	O	O	O	O	O	O	O	O	O	O	O
	Contact Information	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	Resource Information	R	R	R	R	O	O	R	R	R	R	R	R	R	R	R	R	R	R
Incident Information	IncidentID	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	IncidentDescription	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Message Recall	RecalledMessageID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
	RecallType	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Funding	FundCode	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	C	
	FundingInfo	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C	C	
Resource Information	ResourceInfoElementID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
	Response Information	N/A	R	N/A	R	N/A	O	N/A	O	N/A	R	O	R	N/A	O	N/A	R	R	
	Resource	R	O	R	C	O	O	R	R	R	O	R	C	R	O	R	C	C	
	Assignment Information	O	O	R	C	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Schedule Information	O	O	O	C	O	O	O	O	O	O	O	O	O	O	O	O	O	
Response Information	PrecedingResourceInfoElementID	N/A	R	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A	R	R	
	ResponseType	N/A	R	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A	R	R	
	ReasonCode	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	C	C	
	ResponseReason	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	C	C	
Resource	ResourceID	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	Name	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	TypeStructure	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	TypeInfo	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Keyword	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Description	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Credentials	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Certifications	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	SpecialRequirements	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	ResponsibleParty	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Ownership Information	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
Resource Status	N/A	O	N/A	O	O	O	O	O	O	O	R	N/A	O	NA	O	O	O		
Ownership Information	Owner	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	OwningJurisdiction	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	HomeDispatch	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	HomeUnit	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

Schema Element	Message Element	Request Resource	ResponseTo Request Resource	Requisition Resource	Commit Resource	Request Information	ResponseTo Request Information	Offer Unsolicited Resource	Release Resource	Request Return	ResponseTo Request Return	Request Quote	ResponseTo Request Quote	Request Resource Deployment Status	Report Resource Deployment Status	Request Extended Deployment Duration	ResponseTo Request Extended Deployment Duration
Resource Status	InventoryRefreshDateTime	N/A	O	N/A	O	O	O	O	N/A	N/A	N/A	N/A	O	N/A	O	N/A	N/A
	DeploymentStatus	N/A	O	N/A	O	O	O	O	O	O	R	N/A	O	N/A	O	O	O
	Availability	N/A	O	N/A	N/A	O	O	O	O	O	R	N/A	O	N/A	O	O	O
Assignment Information	Quantity	O	C	R	R	O	O	O	R	O	O	O	O	O	O	O	O
	Restrictions	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	AnticipatedFunction	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	PriceQuote	N/A	O	O	O	O	O	O	O	O	O	N/A	R	O	O	O	O
	OrderID	N/A	N/A	N/A	O	O	O	N/A	O	O	O	N/A	N/A	O	O	O	O
	Assignment Instructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
Assignment Instructions	ModeOfTransportation	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
	NavigationInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
	ReportingInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
Schedule Information	ScheduleType	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	DateTime	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	Location	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

430

431

Table 3: ScheduleTypes – Message Matrix

	RequestResource	ResponseToRequestResource	RequisitionResource	CommitResource	RequestInformation	ResponseToRequestInformation	OfferUnsolicitedResource	ReleaseResource	RequestReturn	ResponseToRequestReturn	RequestQuote	ResponseToRequestQuote	RequestResourceDeploymentStatus	ReportResourceDeploymentStatus	RequestExtendedDeploymentDuration	ResponseToRequestExtendedDeploymentDuration
RequestedArrival	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
EstimatedArrival		X	X	X	X	X	X	X	X	X		X	X	X	X	X
ActualArrival					X	X		X	X	X			X	X	X	X
RequestedDeparture	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
EstimatedDeparture		X	X	X	X	X	X	X	X	X		X	X	X	X	X
ActualDeparture				X	X	X		X	X	X			X	X	X	X
RequestedReturnArrival		X	X	X	X	X	X	X	X	X		X	X	X	X	X
EstimatedReturnArrival	X	X	X	X	X	X		X		X	X	X	X	X	X	X
ActualReturnArrival					X	X							X	X		
RequestedReturnDeparture		X	X	X	X	X	X	X	X	X		X	X	X	X	X
EstimatedReturnDeparture	X	X	X	X	X	X		X		X	X	X	X	X	X	X
ActualReturnDeparture					X	X		X		X			X	X		
Committed				X	X	X		X	X	X			X	X	X	X
BeginAvailable		X	X	X	X	X	X	X	X	X		X	X	X		
EndAvailable		X	X	X	X	X	X	X	X	X		X	X	X		X
Current				X	X	X		X	X	X		X	X	X	X	X
ReportTo	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
Route	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

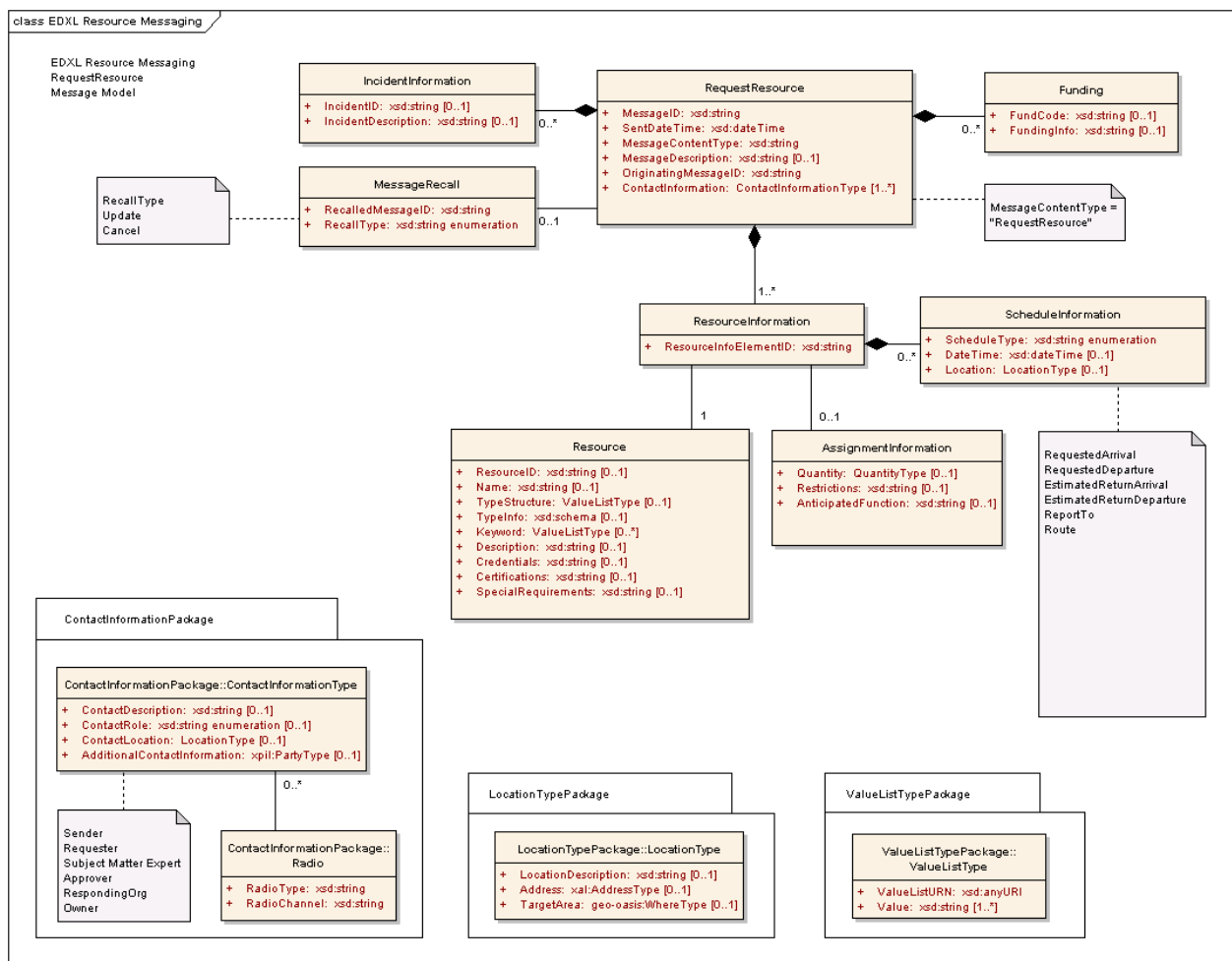
435 **3.4 RequestResource Message**

436 **3.4.1 Overview**

437 The “RequestResource” message is used as an announcement to a broad audience of potential suppliers
 438 as well as potential suppliers in the local geographic area of interest. It is intended to be used by
 439 Emergency Managers, Incident Commanders and other First Responders to request information on
 440 availability of needed resources.

441 **3.4.2 Element Reference Model**

442 Figure 4 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestResource
 443 Message. The ERM shows the element-level details for the main entities in the RM.
 444



445 **Figure 4: EDXL-RM ERM for RequestResource Message**

446 The following table outlines the element cardinalities for this message type, as follows:

- 447
- 448 – **bold** indicates an element that is required
 - 449 – *italics* indicate an element that is conditional (the applicable rules for these elements appear
 - 450 below the table)
 - 451 – an asterisk (*) indicates that an element can appear multiple times

452 – a caret symbol (^) indicates that the values of an element are constrained, as per the rules shown
 453 below the table.

454 All elements that are not shown in bold or italics are optional.

455

456

Table 4: RequestResource Message Elements

Parent Element	Sub-Elements
RequestResource	MessageID , SentDateTime , MessageContentType [^] , MessageDescription, OriginatingMessageID , IncidentInformation*, MessageRecall, Funding*, ContactInformation *, ResourceInformation *
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	RecalledMessageID , RecallType
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	ResourceInfoElementID , Resource , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> *, Description, Credentials, Certifications, SpecialRequirements
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction
ScheduleInformation	ScheduleType [^] , DateTime, Location

457 3.4.3 RequestResource Message Rules

458 The following rules apply to the above elements: The following notation is used throughout this document:
 459 a colon is used as a separator between the name of an element and the name of a child of that element.

- 460 • The RequestResource:MessageID, RequestResource:SentDateTime,
 461 RequestResource:MessageContentType, RequestResource:OriginatingMessageID,
 462 RequestResource:ContactInformation, and RequestResource:ResourceInformation elements
 463 MUST be present.
 - 464 • The value of RequestResource:MessageContentType MUST be “RequestResource”.
 - 465 • If a RequestResource:IncidentInformation element is present, then at least one of
 466 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
 - 467 • If the RequestResource:MessageRecall element is present, then the
 468 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
 - 469 • If a RequestResource:Funding element is present, then at least one of Funding:FundCode and/or
 470 Funding:FundingInfo MUST be present.
 - 471 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
 472 MUST be present.
 - 473 • At least one of Resource:ResourceID, Resource:Name and/or Resource:TypeStructure MUST be
 474 present.
 - 475 • If the ResourceInformation:ScheduleInformation element is present, then the
 476 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:
 - 477 • “RequestedArrival”, “RequestedDeparture”, “EstimatedReturnDeparture”,
 478 “EstimatedReturnArrival”, “ReportTo”, or “Route”.
- 479

480 The schema for a RequestResource message can be found in Appendix A.3.

481 3.4.4 Message Flow

482 The RequestResource message is an initial message created and sent by the Resource Consumer to
483 any number of Resource Suppliers.

484 The potential responses to this message include:

- 485 • ResponseToRequestResource (See Section 3.5)
- 486 • Response may include Accept, Decline, and Provisional responses.

487 The message may be canceled or updated through the RequestResource:MessageRecall element.

488 3.4.5 Message Example

489 Below is an example of a RequestResource Message, in which three resource requests are shown:

- 490 • Small Animal Sheltering Team (ResourceInfoElementID=001)
- 491 • Patrol and Surveillance Helicopters (ResourceInfoElementID =002)
- 492 • Electrical Power Restoration Team (ResourceInfoElementID =003).

493

494 [Note: The XML example shown in this section is informative only.]

```
495 <?xml version="1.0" encoding="UTF-8"?>
496 <RequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
497   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
498     EDXL-RMRequestResource.xsd"
499   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
500   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
501   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
502   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
503   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
504   xmlns:gml="http://www.opengis.net/gml">
505   <MessageID>urn:au-qld-eoc:12332</MessageID>
506   <SentDateTime>2006-03-21T11:58:00+10:00</SentDateTime>
507   <MessageContentType>RequestResource</MessageContentType>
508   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
509   <IncidentInformation>
510     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
511   </IncidentInformation>
512   <ContactInformation>
513     <rm:ContactRole>Sender</rm:ContactRole>
514     <rm:AdditionalContactInformation>
515       <xpil:PartyName>
516         <xnl:PersonName>
517           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
518           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
519         </xnl:PersonName>
520         <xnl:OrganisationName>
521           <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
522         </xnl:OrganisationName>
523       </xpil:PartyName>
524       <xpil:ContactNumbers>
525         <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
526           xpil:ContactHours="9:00AM - 5:00PM">
527           <xpil:ContactNumberElement
528             xpil:Type="CountryCode">61</xpil:ContactNumberElement>
529           <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
530           <xpil:ContactNumberElement xpil:Type="LocalNumber">
531             3000
532             1234
533           </xpil:ContactNumberElement>
534         </xpil:ContactNumber>
535       </xpil:ContactNumbers>
536       <xpil:ElectronicAddressIdentifiers>
```

```

537     <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
538     </xpil:ElectronicAddressIdentifier>
539   </xpil:ElectronicAddressIdentifiers>
540   </rm:AdditionalContactInformation>
541 </ContactInformation>
542 <ResourceInformation>
543   <ResourceInfoElementID>001</ResourceInfoElementID>
544   <Resource>
545     <TypeStructure>
546       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
547       <rm:Value>Small Animal Sheltering Team</rm:Value>
548     </TypeStructure>
549     <Description>
550       5-person response team to advise and support local efforts to set up a
551       small animal shelter
552     </Description>
553     <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
554   </Resource>
555 <AssignmentInformation>
556   <Quantity>
557     <rm:MeasuredQuantity>
558       <rm:Amount>1</rm:Amount>
559     </rm:MeasuredQuantity>
560   </Quantity>
561 </AssignmentInformation>
562 <ScheduleInformation>
563   <ScheduleType>RequestedArrival</ScheduleType>
564   <DateTime>2006-03-24T09:00:00+10:00</DateTime>
565   <Location>
566     <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
567     <rm:Address>
568       <xal:Country>
569         <xal:NameElement>Australia</xal:NameElement>
570       </xal:Country>
571       <xal:AdministrativeArea>
572         <xal:NameElement>QLD</xal:NameElement>
573       </xal:AdministrativeArea>
574       <xal:Locality>
575         <xal:NameElement>Innisfail</xal:NameElement>
576       </xal:Locality>
577       <xal:Thoroughfare>
578         <xal:NameElement>Downing St</xal:NameElement>
579         <xal:Number>27</xal:Number>
580       </xal:Thoroughfare>
581       <xal:PostCode>
582         <xal:Identifier>4860</xal:Identifier>
583       </xal:PostCode>
584     </rm:Address>
585   </Location>
586 </ScheduleInformation>
587 <ScheduleInformation>
588   <ScheduleType>EstimatedReturnDeparture</ScheduleType>
589   <DateTime>2006-03-30T17:00:00+10:00</DateTime>
590 </ScheduleInformation>
591 </ResourceInformation>
592 <ResourceInformation>
593   <ResourceInfoElementID>002</ResourceInfoElementID>
594   <Resource>
595     <TypeStructure>
596       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
597       <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
598     </TypeStructure>
599   </Resource>
600 <AssignmentInformation>
601   <Quantity>
602     <rm:MeasuredQuantity>
603       <rm:Amount>3</rm:Amount>
604     </rm:MeasuredQuantity>
605   </Quantity>
606   <AnticipatedFunction>

```

```

607         Aerial surveillance to determine extent of
608         flooding
609         </AnticipatedFunction>
610     </AssignmentInformation>
611     <ScheduleInformation>
612         <ScheduleType>RequestedArrival</ScheduleType>
613         <DateTime>2006-03-22T09:00:00+10:00</DateTime>
614         <Location>
615             <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
616         </Location>
617     </ScheduleInformation>
618 </ResourceInformation>
619 <ResourceInformation>
620     <ResourceInfoElementID>003</ResourceInfoElementID>
621     <Resource>
622         <TypeStructure>
623             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
624             <rm:Value>Electrical Power Restoration Team</rm:Value>
625         </TypeStructure>
626     </Resource>
627 <AssignmentInformation>
628     <Quantity>
629         <rm:MeasuredQuantity>
630             <rm:Amount>2</rm:Amount>
631         </rm:MeasuredQuantity>
632     </Quantity>
633     <AnticipatedFunction>
634         Restore power to critical infrastructure in and around the
635         Innisfail area
636     </AnticipatedFunction>
637 </AssignmentInformation>
638 <ScheduleInformation>
639     <ScheduleType>RequestedArrival</ScheduleType>
640     <DateTime>2006-03-22T08:00:00+10:00</DateTime>
641     <Location>
642         <rm:TargetArea>
643             <gml:Point>
644                 <gml:pos> 146.03 -17.53 </gml:pos>
645             </gml:Point>
646         </rm:TargetArea>
647     </Location>
648 </ScheduleInformation>
649 </ResourceInformation>
650 </RequestResource>

```

651

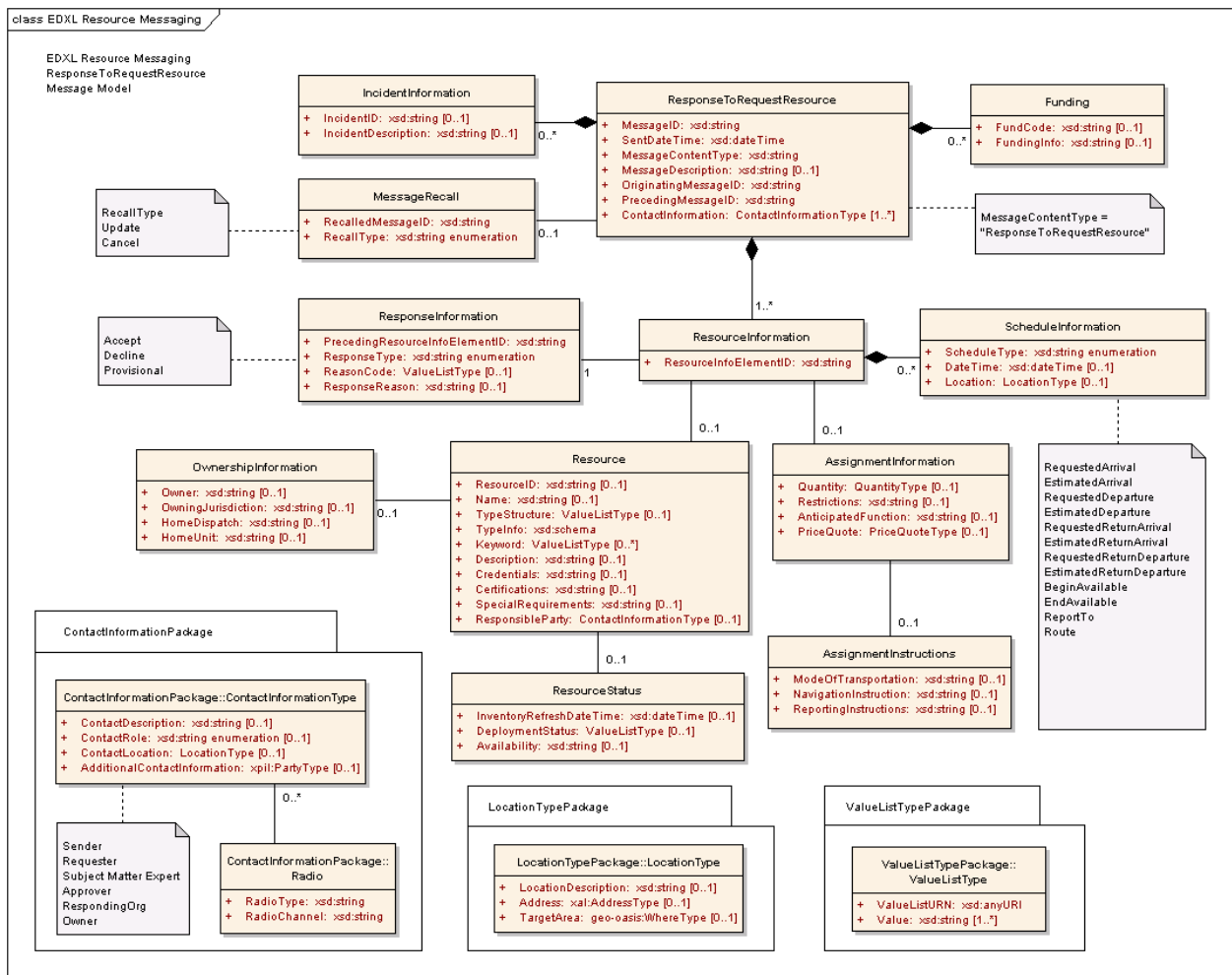
652 **3.5 ResponseToRequestResource Message**

653 **3.5.1 Overview**

654 The “ResponseToRequestResource” message is used by potential resource suppliers (e.g. mutual aid
655 partners, equipment suppliers, etc.) to respond to RequestResource messages from Emergency
656 Managers, Incident Commanders and First Responders or others with logistics responsibilities. The
657 response may identify availability, limitations and other pertinent information related to resources in the
658 original request.

659 **3.5.2 Element Reference Model**

660 Figure 5 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
661 ResponseToRequestResource Message. The ERM shows the element-level details for the main entities
662 in the RM.



663
664 *Figure 5: EDXL-RM ERM for ResponseToRequestResource Message*

665
666

667 The following table outlines the element cardinalities for this message type.

668

669

Table 4: ResponseToRequestResource Message Elements

Parent Element	Sub-Elements
ResponseToRequestResource	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID, PrecedingMessageID , IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation , Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType , ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	<i>Quantity</i> , Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

670

671 3.5.3 ResponseToRequestResource Message Rules

672 The following rules apply to the above elements:

- 673 • The ResponseToRequestResource:MessageID, ResponseToRequestResource:SentDateTime,
674 ResponseToRequestResource:MessageContentType,
675 ResponseToRequestResource:OriginatingMessageID,
676 ResponseToRequestResource:PrecedingMessageID,
677 ResponseToRequestResource:ContactInformation, and
678 ResponseToRequestResource:ResourceInformation elements MUST be present.
- 679 • The value of ResponseToRequestResource:MessageContentType MUST be
680 "ResponseToRequestResource".
- 681 • If a ResponseToRequestResource:IncidentInformation element is present, then at least one of
682 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
- 683 • If the ResponseToRequestResource:MessageRecall element is present, then the
684 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 685 • If a ResponseToRequestResource:Funding element is present, then at least one of
686 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

- 687 • The ResourceInformation:ResourceInfoElementID and
688 ResourceInformation:ResponseInformation elements MUST be present.
- 689 • The ResponseInformation:PrecedingResourceInfoElementID and
690 ResponseInformation:ResponseType elements MUST be present.
- 691 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
692 MUST be present.
- 693 • If a ResourceInformation:Resource element is present, then at least one of
694 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element MUST be
695 present.
- 696 • If Resource:OwnershipInformation element is present, then at least one of
697 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be
698 present.
- 699 • If the ResourceInformation:AssignmentInformation element is present and the
700 ResponseInformation:ResponseType contains a value of "Accept" or "Provisional", then the
701 AssignmentInformation:Quantity element MUST be present.
- 702 • If ResourceInformation:ScheduleInformation is present then ScheduleInformation:ScheduleType
703 MUST be present and contain one of the following values:
 - 704 • "EstimatedArrival", "EstimatedDeparture", "RequestedReturnDeparture",
705 "RequestedReturnArrival", "BeginAvailable", "EndAvailable", "RequestedArrival",
706 "RequestedDeparture", "EstimatedReturnArrival", "ReportTo" or "Route".

707

708 The schema for a ResponseToRequestResource message can be found in Appendix A.4.

709 3.5.4 Message Flow

710 The ResponseToRequestResource message is sent by a Resource Supplier in response to an original
711 RequestResource message.

712 The potential responses to this message include:

- 713 • RequisitionResource (See Section 3.6).

714 The message may be canceled or updated through the ResponseToRequestResource:MessageRecall
715 element.

716 3.5.5 Message Example

717 Below is an example of a ResponseToRequestResource Message. This is an example response to the
718 original request shown in Section 3.4.5 . In this example, the three requests have different responses:

- 719 • The "Small Animal Sheltering Team" (ResourceInfoElementID=001) has Conditional changes to
720 the request. In this case the Schedule information is different from that requested.
- 721 • The "Patrol and Surveillance Helicopters" (ResourceInfoElementID=002) is Declined.
- 722 • The "Electrical Power Restoration Team" (ResourceInfoElementID=003) is Accepted.

723

724 [Note: The XML example shown in this section is informative only.]

```
725 <?xml version="1.0" encoding="UTF-8"?>
726 <ResponseToRequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
727   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
728     EDXL-RMResponseToRequestResource.xsd"
729   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
730   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
731   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
732   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
```



```

733     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
734     xmlns:gml="http://www.opengis.net/gml">
735     <MessageID>urn:au-qld-eoc:12334</MessageID>
736     <SentDateTime>2006-03-21T12:34:00+10:00</SentDateTime>
737     <MessageContentType>ResponseToRequestResource</MessageContentType>
738     <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
739     <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
740     <IncidentInformation>
741       <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
742     </IncidentInformation>
743     <ContactInformation>
744       <rm:ContactRole>Sender</rm:ContactRole>
745       <rm:AdditionalContactInformation>
746         <xpil:PartyName>
747           <xnl:PersonName>
748             <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
749             <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
750           </xnl:PersonName>
751           <xnl:OrganisationName>
752             <xnl:NameElement>EMA</xnl:NameElement>
753           </xnl:OrganisationName>
754         </xpil:PartyName>
755         <xpil:ContactNumbers>
756           <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
757             <xpil:ContactNumberElement
758               xpil:Type="CountryCode">61</xpil:ContactNumberElement>
759             <xpil:ContactNumberElement xpil:Type="AreaCode">2</xpil:ContactNumberElement>
760             <xpil:ContactNumberElement xpil:Type="LocalNumber">
761               9864
762               4321
763             </xpil:ContactNumberElement>
764           </xpil:ContactNumber>
765         </xpil:ContactNumbers>
766       </rm:AdditionalContactInformation>
767     </ContactInformation>
768     <ResourceInformation>
769       <ResourceInfoElementID>001</ResourceInfoElementID>
770       <ResponseInformation>
771         <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
772         <rm:ResponseType>Provisional</rm:ResponseType>
773         <rm:ResponseReason>Earliest arrival date is 2006-03-25</rm:ResponseReason>
774       </ResponseInformation>
775       <ScheduleInformation>
776         <ScheduleType>EstimatedDeparture</ScheduleType>
777         <DateTime>2006-03-25T08:10:00</DateTime>
778         <Location>
779           <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
780         </Location>
781       </ScheduleInformation>
782       <ScheduleInformation>
783         <ScheduleType>EstimatedArrival</ScheduleType>
784         <DateTime>2006-03-25T09:00:00+10:00</DateTime>
785         <Location>
786           <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
787         </Location>
788       </ScheduleInformation>
789       <ScheduleInformation>
790         <ScheduleType>EstimatedArrival</ScheduleType>
791         <DateTime>2006-03-25T09:30:00+10:00</DateTime>
792         <Location>
793           <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
794         <rm:Address>
795           <xal:Country>
796             <xal:NameElement>Australia</xal:NameElement>
797           </xal:Country>
798           <xal:AdministrativeArea>
799             <xal:NameElement>QLD</xal:NameElement>
800           </xal:AdministrativeArea>
801           <xal:Locality>
802             <xal:NameElement>Innisfail</xal:NameElement>
803           </xal:Locality>

```

804
805
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829

830

```
<xal:Thoroughfare>
  <xal:NameElement>Downing St</xal:NameElement>
  <xal:NameElement>27</xal:NameElement>
</xal:Thoroughfare>
<xal:PostCode>
  <xal:Identifier>4860</xal:Identifier>
</xal:PostCode>
</rm:Address>
</Location>
</ScheduleInformation>
</ResourceInformation>
<ResourceInformation>
  <ResourceInfoElementID>002</ResourceInfoElementID>
  <ResponseInformation>
    <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
    <rm:ResponseType>Accept</rm:ResponseType>
  </ResponseInformation>
</ResourceInformation>
<ResourceInformation>
  <ResourceInfoElementID>003</ResourceInfoElementID>
  <ResponseInformation>
    <rm:PrecedingResourceInfoElementID>003</rm:PrecedingResourceInfoElementID>
    <rm:ResponseType>Decline</rm:ResponseType>
  </ResponseInformation>
</ResourceInformation>
</ResponseToRequestResource>
```

831 **3.6 RequisitionResource Message**

832 **3.6.1 Overview**

833 The “RequisitionResource” message is used by Resource Consumers to order resources from Resource
834 Suppliers. These may relate to one or more responses to a previous Request Resource message.

835 **3.6.2 Element Reference Model**

836 Figure 6 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
837 RequisitionResource Message. The ERM shows the element-level details for the main entities in the RM.

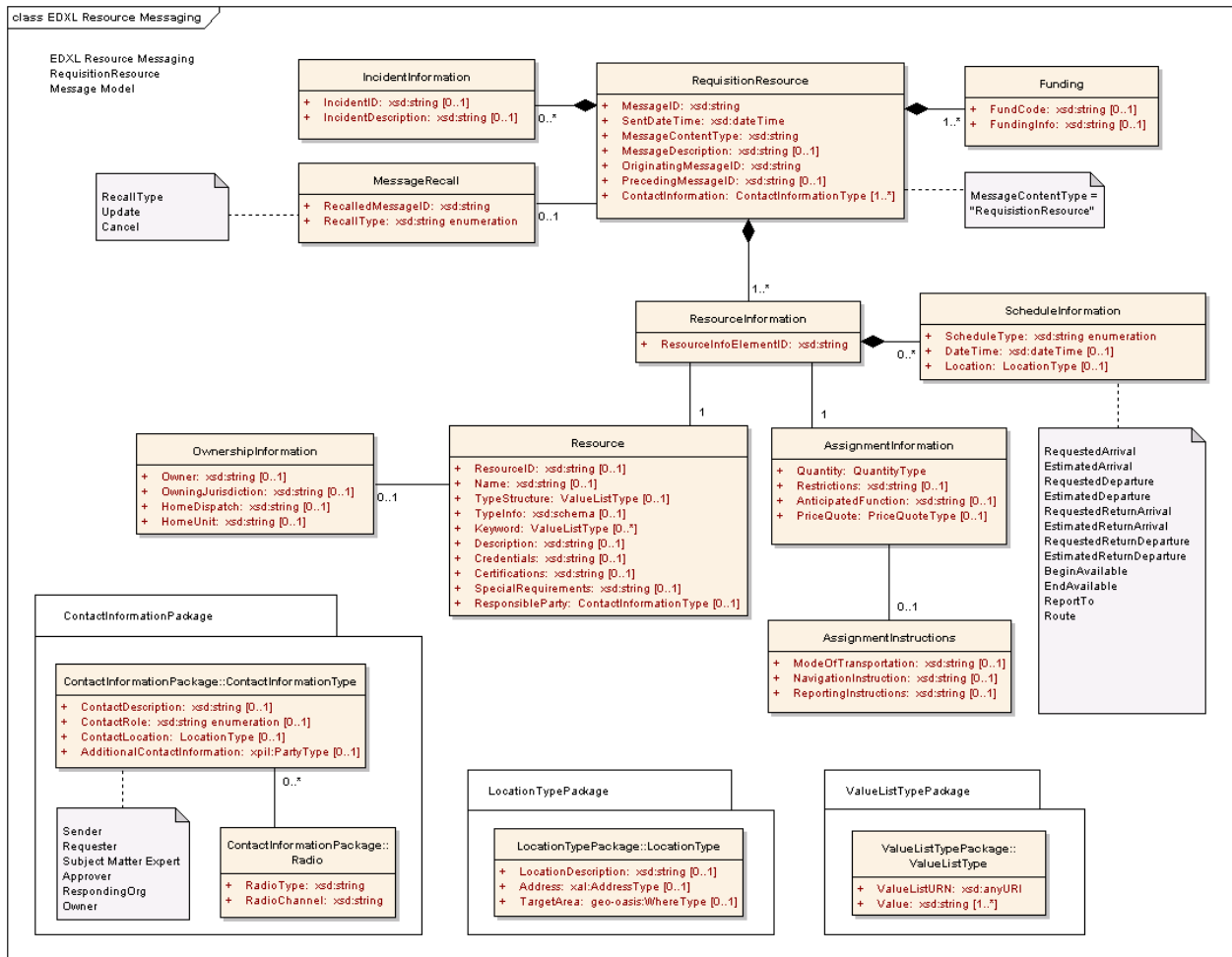


Figure 6: EDXL-RM ERM for RequisitionResource Message

838
839
840
841

842 The following table outlines the element cardinalities for this message type.

843

844

Table 5: RequisitionResource Message Elements

Parent Element	Sub-Elements
RequisitionResource	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource, AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType[^], DateTime, Location

845

846 3.6.3 RequisitionResource Message Rules

847 The following rules apply to the above elements:

- 848 • The RequisitionResource:MessageID, RequisitionResource:SentDateTime,
849 RequisitionResource:MessageContentType, RequisitionResource:OriginatingMessageID,
850 RequisitionResource:Funding, RequisitionResource:ContactInformation, and
851 RequisitionResource:ResourceInformation elements MUST be present.
- 852 • The value of RequisitionResource:MessageContentType MUST be "RequisitionResource".
- 853 • If a RequisitionResource:IncidentInformation element is present, then at least one of
854 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
855 present.
- 856 • If the RequisitionResource:MessageRecall element is present, then the
857 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 858 • If a RequisitionResource:Funding element is present, then at least one of Funding:FundCode
859 and/or Funding:FundingInfo elements MUST be present.
- 860 • The ResourceInformation:ResourceInfoElementID, ResourceInformation:Resource and
861 ResourceInformation:AssignmentInformation elements MUST be present.
- 862 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
863 MUST be present.

- 864 • If a Resource:OwnershipInformation element is present, then at least one of
865 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
866 be present.
- 867 • The AssignmentInformation:Quantity element MUST be present.
- 868 • If ResourceInformation:ScheduleInformation is present, then the
869 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
870 values:
 - 871 • "RequestedArrival", "RequestedDeparture", "EstimatedArrival", "EstimatedDeparture",
 - 872 "RequestedReturnArrival", "EstimatedReturnArrival", "RequestedReturnDeparture",
 - 873 "EstimatedReturnDeparture", "BeginAvailable", "EndAvailable", "ReportTo", or "Route"
- 874
- 875 The schema for a RequisitionResource message can be found in Appendix A.5.

876 3.6.4 Message Flow

- 877 The RequisitionResource message is a message created and sent by the Resource Consumer to any
878 number of Resource Suppliers.
- 879 The potential responses to this message include:
- 880 • CommitResource (See Section 3.7)
 - 881 • This includes Accept, Decline and Provisional responses.
- 882 The message may be canceled or updated through the RequisitionResource:MessageRecall element.

883 3.6.5 Message Example

- 884 Below is an example of a RequisitionResource Message, in which two resource requisitions are shown:
- 885 • Small Animal Sheltering Team (ResourceInfoElementID=001)
 - 886 • Patrol and Surveillance Helicopters (ResourceInfoElementID=002).
- 887
- 888 [Note: The XML example shown in this section is informative only.]

```

889 <?xml version="1.0" encoding="UTF-8"?>
890 <RequisitionResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
891   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
892     EDXL-RMRequisitionResource.xsd"
893   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
894   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
895   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
896   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
897   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
898   xmlns:gml="http://www.opengis.net/gml">
899   <MessageID>urn:au-qld-eoc:987654</MessageID>
900   <SentDateTime>2006-03-21T12:39:00+10:00</SentDateTime>
901   <MessageContentType>RequisitionResource</MessageContentType>
902   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
903   <IncidentInformation>
904     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
905   </IncidentInformation>
906   <Funding>
907     <rm:FundCode>HP4347</rm:FundCode>
908   </Funding>
909   <ContactInformation>
910     <rm:ContactRole>Requester</rm:ContactRole>
911     <rm:AdditionalContactInformation>
912       <xpil:PartyName>
913         <xnl:PersonName>
914           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
915           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>

```

```

916     </xnl:PersonName>
917     <xnl:OrganisationName>
918       <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
919     </xnl:OrganisationName>
920   </xpil:PartyName>
921   <xpil:ContactNumbers>
922     <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
923       xpil:ContactHours="9:00AM - 5:00PM">
924       <xpil:ContactNumberElement
925         xpil:Type="CountryCode">61</xpil:ContactNumberElement>
926       <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
927       <xpil:ContactNumberElement xpil:Type="LocalNumber">
928         3000
929         1234
930       </xpil:ContactNumberElement>
931     </xpil:ContactNumber>
932   </xpil:ContactNumbers>
933   <xpil:ElectronicAddressIdentifiers>
934   <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
935   </xpil:ElectronicAddressIdentifier>
936   </xpil:ElectronicAddressIdentifiers>
937 </rm:AdditionalContactInformation>
938 </ContactInformation>
939 <ContactInformation>
940   <rm:ContactRole>Approver</rm:ContactRole>
941   <rm:AdditionalContactInformation>
942     <xpil:PartyName>
943       <xnl:PersonName>
944         <xnl:NameElement xnl:ElementType="FirstName">Michelle</xnl:NameElement>
945         <xnl:NameElement xnl:ElementType="LastName">Yates</xnl:NameElement>
946       </xnl:PersonName>
947       <xnl:OrganisationName>
948         <xnl:NameElement>QLD Police</xnl:NameElement>
949       </xnl:OrganisationName>
950     </xpil:PartyName>
951     <xpil:ContactNumbers>
952       <xpil:ContactNumber xpil:CommunicationMediaType="Cellphone">
953         <xpil:ContactNumberElement xpil:Type="NationalNumber">
954           0422 877
955           665
956         </xpil:ContactNumberElement>
957       </xpil:ContactNumber>
958     </xpil:ContactNumbers>
959     <xpil:Occupations>
960     <xpil:Occupation>
961       <xpil:OccupationElement xpil:Type="Role">
962         District Disaster
963         Coordinator
964       </xpil:OccupationElement>
965     </xpil:Occupation>
966   </xpil:Occupations>
967   </rm:AdditionalContactInformation>
968 </ContactInformation>
969 <ResourceInformation>
970   <ResourceInfoElementID>001</ResourceInfoElementID>
971   <Resource>
972     <TypeStructure>
973       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
974       <rm:Value>Small Animal Sheltering Team</rm:Value>
975     </TypeStructure>
976     <Description>
977       5-person response team to advise and support local efforts to set up a
978       small animal shelter
979     </Description>
980     <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
981   </Resource>
982   <AssignmentInformation>
983     <Quantity>
984       <rm:MeasuredQuantity>
985         <rm:Amount>1</rm:Amount>

```

```

986     </rm:MeasuredQuantity>
987 </Quantity>
988 <AssignmentInstructions>
989   <rm:ReportingInstructions>
990     Report to Mark Darcy, Innisfail Animal
991     Refuge
992   </rm:ReportingInstructions>
993 </AssignmentInstructions>
994 </AssignmentInformation>
995 <ScheduleInformation>
996   <ScheduleType>EstimatedArrival</ScheduleType>
997   <DateTime>2006-03-25T09:30:00+10:00</DateTime>
998   <Location>
999     <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1000   </Location>
1001 </ScheduleInformation>
1002 <ScheduleInformation>
1003   <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1004   <DateTime>2006-03-30T17:00:00+10:00</DateTime>
1005 </ScheduleInformation>
1006 </ResourceInformation>
1007 <ResourceInformation>
1008   <ResourceInfoElementID>002</ResourceInfoElementID>
1009   <Resource>
1010     <TypeStructure>
1011       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1012       <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
1013     </TypeStructure>
1014   </Resource>
1015 </AssignmentInformation>
1016 <Quantity>
1017   <rm:MeasuredQuantity>
1018     <rm:Amount>3</rm:Amount>
1019   </rm:MeasuredQuantity>
1020 </Quantity>
1021 <AnticipatedFunction>
1022   Aerial surveillance to determine extent of
1023   flooding
1024 </AnticipatedFunction>
1025 </AssignmentInformation>
1026 <ScheduleInformation>
1027   <ScheduleType>RequestedArrival</ScheduleType>
1028   <DateTime>2006-03-22T09:00:00+10:00</DateTime>
1029   <Location>
1030     <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
1031   </Location>
1032 </ScheduleInformation>
1033 </ResourceInformation>
1034 </RequisitionResource>

```

1035

1036

1037 **3.7 CommitResource Message**

1038 **3.7.1 Overview**

1039 The “CommitResource” message is used by a Resource Supplier to confirm that resources have been
 1040 committed to a Resource Consumer request. Usually, the CommitResource is in response to a
 1041 RequisitionResource, or even a RequestResource. The CommitResource is the only message used to
 1042 indicate the resources have been allocated to an assignment/incident.

1043 **3.7.2 Element Reference Model**

1044 Figure 7 below shows the EDXL–RM Element Reference Model (ERM) tailored for the CommitResource
 1045 Message. The ERM shows the element-level details for the main entities in the RM.

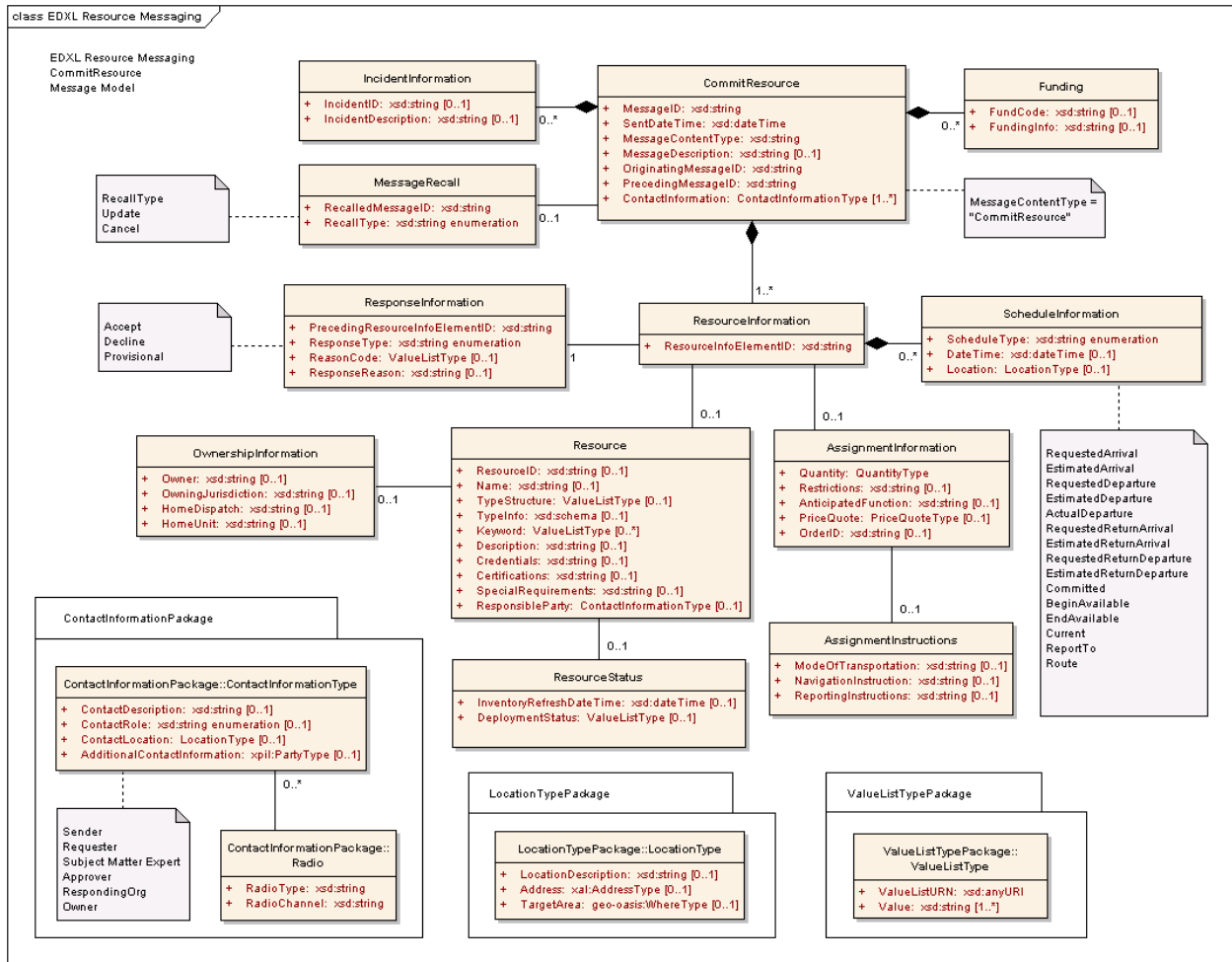


Figure 7: EDXL-RM ERM for CommitResource Message

1046
 1047
 1048
 1049

1050 The following table outlines the element cardinalities for this message type.

1051

1052

Table 6: CommitResource Message Elements

Parent Element	Sub-Elements
CommitResource	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation, Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType, ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime, DeploymentStatus</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType[^], DateTime, Location

1053

1054 3.7.3 CommitResource Message Rules

1055 The following rules apply to the above elements:

- 1056 • The CommitResource:MessageID, CommitResource:SentDateTime,
1057 CommitResource:MessageContentType, CommitResource:OriginatingMessageID,
1058 CommitResource:PrecedingMessageID, CommitResource:ContactInformation, and
1059 CommitResource:ResourceInformation elements MUST be present.
- 1060 • The value of CommitResource:MessageContentType MUST be "CommitResource".
- 1061 • If a CommitResource:IncidentInformation element is present, then at least one of
1062 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1063 present.
- 1064 • If the CommitResource:MessageRecall element is present, then the
1065 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1066 • If a CommitResource:Funding element is present, then at least one of Funding:FundCode and/or
1067 Funding:FundingInfo elements MUST be present.
- 1068 • The ResourceInformation:ResourceInfoElementID and
1069 ResourceInformation:ResponseInformation elements MUST be present.

- 1070 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1071 ResourceInformation:Resource element MUST be present.
- 1072 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1073 ResourceInformation:AssignmentInformation element MUST be present. If
1074 ResponseInformation:ResponseType has a value of “Decline”, then the
1075 ResourceInformation:AssignmentInformation is not applicable.
- 1076 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1077 ResourceInformation:ScheduleInformation element MUST be present. If
1078 ResponseInformation:ResponseType has a value of “Decline”, then the
1079 ResourceInformation:ScheduleInformation is not applicable.
- 1080 • The ResponseInformation:PrecedingResourceInfoElementID and
1081 ResponseInformation:ResponseType elements MUST be present.
- 1082 • If ResponseInformation:ResponseType has a value of “Provisional”, then at least one of
1083 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1084 MUST be present.
- 1085 • If a ResourceInformation:Resource element is present, then at least one of
1086 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
1087 present.
- 1088 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
1089 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1090 • If a ResourceInformation:AssignmentInformation element is present, then the
1091 AssignmentInformation:Quantity element MUST be present.
- 1092 • If the ResourceInformation:ScheduleInformation element is present, then the
1093 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1094 values:
 - 1095 • “RequestedArrival”, “EstimatedArrival”, “EstimatedDeparture”, “RequestedDeparture”,
1096 “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”,
1097 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “BeginAvailable”,
1098 “EndAvailable”, “Current”, “ReportTo” or “Route”.

1099
1100 The schema for a CommitResource message can be found in Appendix A.6.

1101 **3.7.4 Message Flow**

1102 The CommitResource message is sent by a Resource Supplier in response to either a RequestResource
1103 or RequisitionResource message sent by the Resource Consumer.
1104 The message may be canceled or updated through the CommitResource:MessageRecall element.

1105 **3.7.5 Message Example**

1106 Below is an example of a CommitResource Message. This is an example Response to the original
1107 RequisitionResource shown in Section 3.6.5. In this example, the two requests have different responses:

- 1108 • The “Small Animal Sheltering Team” (ResourceInfoElementID=001) is Accepted. In this case the
1109 Schedule information is updated with Committed date.
- 1110 • The “Patrol and Surveillance Helicopters” (ResourceInfoElementID=002) is Declined.

1111
1112

1113 [Note: The XML example shown in this section is informative only.]

```
1114 <?xml version="1.0" encoding="UTF-8"?>
1115 <CommitResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1116   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1117     EDXL-RMCommitResource.xsd"
1118   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1119   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1120   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1121   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1122   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1123   xmlns:gml="http://www.opengis.net/gml">
1124   <MessageID>urn:au-qld-eoc:997754</MessageID>
1125   <SentDateTime>2006-03-21T12:46:00+10:00</SentDateTime>
1126   <MessageContentType>CommitResource</MessageContentType>
1127   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1128   <PrecedingMessageID>urn:au-qld-eoc:987654</PrecedingMessageID>
1129   <IncidentInformation>
1130     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1131   </IncidentInformation>
1132   <Funding>
1133     <rm:FundCode>HP4347</rm:FundCode>
1134   </Funding>
1135   <ContactInformation>
1136     <rm:ContactRole>Sender</rm:ContactRole>
1137     <rm:AdditionalContactInformation>
1138       <xpil:PartyName>
1139         <xnl:PersonName>
1140           <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1141           <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1142         </xnl:PersonName>
1143         <xnl:OrganisationName>
1144           <xnl:NameElement>EMA</xnl:NameElement>
1145         </xnl:OrganisationName>
1146       </xpil:PartyName>
1147     </rm:AdditionalContactInformation>
1148   </ContactInformation>
1149   <ResourceInformation>
1150     <ResourceInfoElementID>001</ResourceInfoElementID>
1151     <ResponseInformation>
1152       <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
1153       <rm:ResponseType>Accept</rm:ResponseType>
1154     </ResponseInformation>
1155     <Resource>
1156       <TypeStructure>
1157         <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1158         <rm:Value>Small Animal Sheltering Team</rm:Value>
1159       </TypeStructure>
1160       <Description>
1161         5-person response team to advise and support local efforts to set up a
1162         small animal shelter
1163       </Description>
1164       <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
1165     </Resource>
1166     <AssignmentInformation>
1167       <Quantity>
1168         <rm:MeasuredQuantity>
1169           <rm:Amount>1</rm:Amount>
1170         </rm:MeasuredQuantity>
1171       </Quantity>
1172     </AssignmentInformation>
1173     <ScheduleInformation>
1174       <ScheduleType>Committed</ScheduleType>
1175       <DateTime>2006-03-21T12:46:00+10:00</DateTime>
1176     </ScheduleInformation>
1177   </ResourceInformation>
1178   <ResourceInformation>
1179     <ResourceInfoElementID>002</ResourceInfoElementID>
1180     <ResponseInformation>
1181       <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
1182       <rm:ResponseType>Decline</rm:ResponseType>
```

1183
1184
1185

1186

```
</ResponseInformation>  
</ResourceInformation>  
</CommitResource>
```

1187 **3.8 RequestInformation Message**

1188 **3.8.1 Overview**

1189 One use of the “RequestInformation” message is to ask questions about specific resources. In this case,
1190 the message can be the initial message sent from the Resource Consumer to the Resource Suppliers, or
1191 it can be a follow up message seeking further information after the Resource Consumer has sent a
1192 RequestResource or other resource messages. A RequestInformation can be used in this manner even
1193 after a resource has been committed and/or deployed; however, if the request is related to the status of a
1194 deployed resource, the RequestResourceDeploymentStatus message MUST be used instead.

1195 A second use of this message type is to provide a general description of the sender’s situation and
1196 needs, with the expectation of receiving responses suggesting suitable resources. This is useful when the
1197 Resource Consumer is not able to issue a specific RequestResource message because of a lack of
1198 knowledge about the resources that would be most appropriate for the situation.

1199 **3.8.2 Element Reference Model**

1200 Figure 8 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
1201 RequestInformation Message. The ERM shows the element-level details for the main entities in the RM.

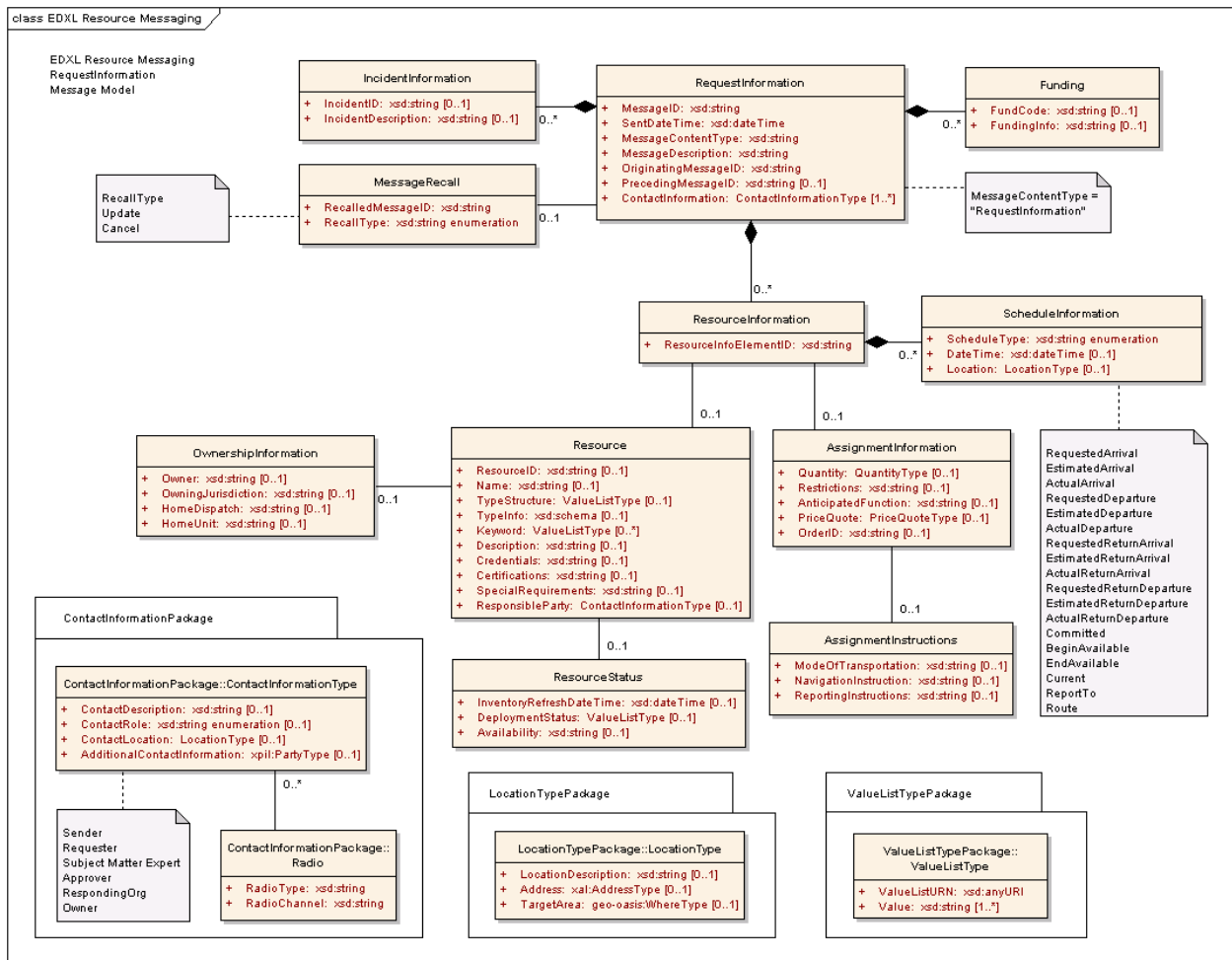


Figure 8: EDXL-RM ERM for RequestInformation Message

1202
1203
1204

1205 The following table outlines the element cardinalities for this message type.

1206

1207

Table 7: RequestInformation Message Elements

Parent Element	Sub-Elements
RequestInformation	MessageID, SentDateTime, MessageContentType^, MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource, AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime, DeploymentStatus, Availability</i>
AssignmentInformation	<i>Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType^, DateTime, Location

1208

1209 3.8.3 RequestInformation Message rules

1210 The following rules apply to the above elements:

- 1211 • The RequestInformation:MessageID, ResourceMessage:SentDateTime
1212 ResourceMessage:MessageContentType, ResourceMessage:MessageDescription,
1213 ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements
1214 MUST be present.
- 1215 • The value of RequestInformation:MessageContentType MUST be "RequestInformation".
- 1216 • If a RequestInformation:IncidentInformation element is present, then at least one of
1217 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1218 present.
- 1219 • If the ResourceMessage:MessageRecall element is present, then the
1220 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1221 • If a RequestInformation:Funding element is present, then at least one of Funding:FundCode
1222 and/or Funding:FundingInfo elements MUST be present.
- 1223 • If a RequestInformation:ResourceInformation element is present, then the
1224 ResourceInformation:ResourceInfoElementID element MUST be present.

- 1225 • If a ResourceInformation:Resource element is present, then at least one of
- 1226 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
- 1227 present.
- 1228 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
- 1229 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1230 • If the ResourceInformation:ScheduleInformation element is present, then the
- 1231 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
- 1232 values:
 - 1233 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 - 1234 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 - 1235 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 - 1236 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
 - 1237 "Committed", "Current", "ReportTo" or "Route".
- 1238
- 1239 The schema for a RequestInformation message can be found in Appendix A.7.

1240 3.8.4 Message Flow

- 1241 The RequestInformation message may be sent by the Resource Consumer to any number of Resource
- 1242 Suppliers, or may it may be sent vice versa. The RequestInformation message may follow earlier
- 1243 resource messages.
- 1244 The potential responses to this message include:
 - 1245 • ResponseToRequestInformation (See Section 3.9)
 - 1246 • ReportResourceDeploymentStatus
 - 1247 • This includes Accept, Decline, and Provisional responses.
- 1248 The message may be canceled or updated through the RequestInformation:MessageRecall element.

1249 3.8.5 Message Example

1250 Below is an example RequestInformation messages. The first is intended as a follow up message to the
 1251 RequestResource and ResponseToRequestResource messages shown in Sections 3.4.5 and 3.5.5,
 1252 requesting further information about the third resource that was requested (two electrical power
 1253 restoration teams).

1254
 1255 [Note: The XML examples shown in this section are informative only.]

```

1256 <?xml version="1.0" encoding="UTF-8"?>
1257 <RequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1258   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1259     EDXL-RMRequestInformation.xsd"
1260   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1261   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1262   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1263   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1264   xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1265   xmlns:gml="http://www.opengis.net/gml">
1266   <MessageID>urn:au-qld-eoc:12338</MessageID>
1267   <SentDateTime>2006-03-21T12:35:00+10:00</SentDateTime>
1268   <MessageContentType>RequestInformation</MessageContentType>
1269   <MessageDescription>
1270     Could you please advise the size (personnel and equipment) of each power
1271     restoration team?
1272   </MessageDescription>
1273   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1274   <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
1275   <IncidentInformation>
  
```

```

1276     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1277 </IncidentInformation>
1278 <ContactInformation>
1279   <rm:ContactRole>Sender</rm:ContactRole>
1280   <rm:AdditionalContactInformation>
1281     <xpil:PartyName>
1282       <xnl:PersonName>
1283         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1284         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1285       </xnl:PersonName>
1286       <xnl:OrganisationName>
1287         <xnl:NameElement>EMA</xnl:NameElement>
1288       </xnl:OrganisationName>
1289     </xpil:PartyName>
1290   </rm:AdditionalContactInformation>
1291 </ContactInformation>
1292 <ResourceInformation>
1293   <ResourceInfoElementID>001</ResourceInfoElementID>
1294   <Resource>
1295     <TypeStructure>
1296       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1297       <rm:Value>Electrical Power Restoration Team</rm:Value>
1298     </TypeStructure>
1299   </Resource>
1300 <AssignmentInformation>
1301   <Quantity>
1302     <rm:MeasuredQuantity>
1303       <rm:Amount>1</rm:Amount>
1304     </rm:MeasuredQuantity>
1305   </Quantity>
1306   <AnticipatedFunction>
1307     Restore power to critical infrastructure in and around the
1308     Innisfail area
1309   </AnticipatedFunction>
1310 </AssignmentInformation>
1311 </ResourceInformation>
1312 </RequestInformation>

```

1313

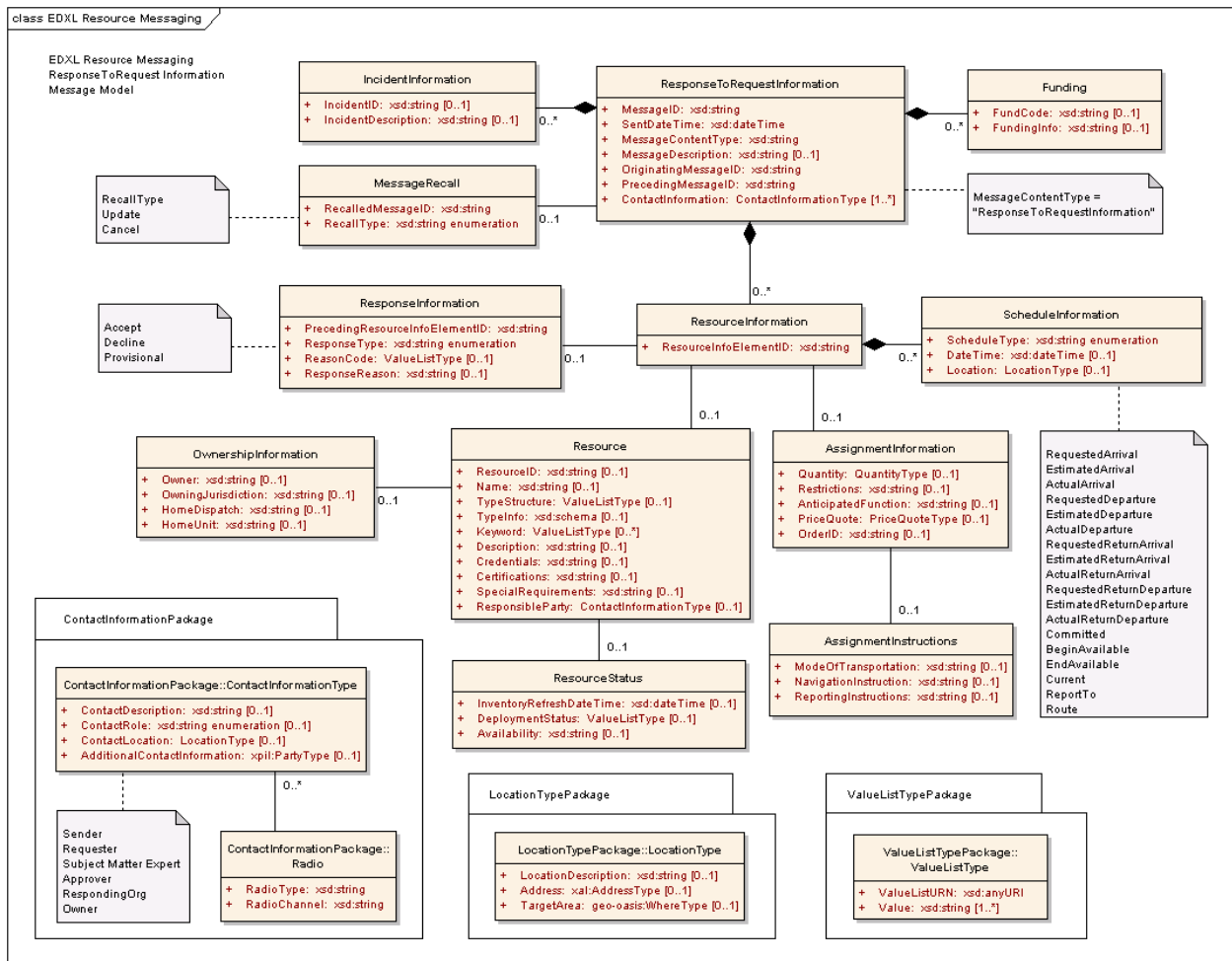
1314 **3.9 ResponseToRequestInformation Message**

1315 **3.9.1 Overview**

1316 The “ResponseToRequestInformation” message is used by Resource Suppliers to respond to a
 1317 RequestInformation message from Resource Consumers. If the RequestInformation message contained
 1318 one or more ResourceInformation elements, the response MUST Accept or Decline for each
 1319 ResourceInformation element with a separate ResponseInformation element. However, accepting here
 1320 only entails agreeing to supply the requested information, not agreeing to supply resources. If the
 1321 RequestInformation message did not contain any ResourceInformation elements, one or more
 1322 ResponseInformation elements MAY be included in the response message.

1323 **3.9.2 Element Reference Model**

1324 Figure 9 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 1325 ResponseToRequestInformation Message. The ERM shows the element-level details for the main entities
 1326 in the RM.



1327
 1328 *Figure 9: EDXL-RM ERM for ResponseToRequestInformation Message*

1329
 1330

1331 The following table outlines the element cardinalities for this message type.

1332

1333

Table 8: ResponseToRequestInformation Message Elements

Parent Element	Sub-Elements
ResponseToRequestInformation	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID, PrecedingMessageID , IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID , ResponseInformation ¹ , Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType , ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction</i> , HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType , DateTime, Location

1334

1335 3.9.3 ResponseToRequestInformation Message Rules

1336 The following rules apply to the above elements:

- 1337 • The ResponseToRequestInformation:MessageID,
1338 ResponseToRequestInformation:SentDateTime
1339 ResponseToRequestInformation:MessageContentType,

¹ Because this is a response to a request for information and the response may not be to a particular resource, the ResourceInformation:ResponseInformation element is not mandatory.

- 1340 ResponseToRequestInformation:OriginatingMessageID,
 1341 ResponseToRequestInformation:PrecedingMessageID, and
 1342 ResponseToRequestInformation:ContactInformation elements MUST be present.
- 1343 • The value of ResponseToRequestInformation:MessageContentType MUST be
 1344 "ResponseToRequestInformation".
 - 1345 • If a ResponseToRequestInformation:IncidentInformation element is present, then at least one of
 1346 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
 1347 present.
 - 1348 • If the ResponseToRequestInformation:MessageRecall element is present, then the
 1349 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
 - 1350 • If a ResponseToRequestInformation:Funding element is present, then at least one of
 1351 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
 - 1352 • If a ResponseToRequestInformation:ResourceInformation element is present, then the
 1353 ResourceInformation:ResourceInfoElementID element MUST be present.
 - 1354 • If the ResourceInformation:ResponseInformation element is present, then the
 1355 ResponseInformation:PrecedingResourceInfoElementID and
 1356 ResponseInformation:ResponseType elements MUST be present.
 - 1357 • If the ResourceInformation:ResponseInformation element is present and the
 1358 ResponseInformation:ResponseType element has a value of "Provisional", then at least one of
 1359 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
 1360 MUST be present.
 - 1361 • If a ResourceInformation:Resource element is present, then at least one of
 1362 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
 1363 present.
 - 1364 • If a Resource:OwnershipInformation element is present, then at least one of
 1365 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
 1366 be present.
 - 1367 • If the ResourceInformation:ScheduleInformation element is present, then the
 1368 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
 1369 values:
 - 1370 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 1371 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 1372 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 1373 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
 1374 "Committed", "Current", "ReportTo" or "Route".
- 1375
- 1376 The schema for a ResponseToRequestInformation message can be found in Appendix A.8.

1377 **3.9.4 Message Flow**

- 1378 The ResponseToRequestInformation message is sent by a Resource Supplier or Resource Consumer in
 1379 response to an original RequestInformation message.
- 1380 The potential responses to this message include:
- 1381 • RequisitionResource message from the Resource Consumer. (See Section 3.6)
- 1382 The message may be canceled or updated through the ResponseToRequestInformation:MessageRecall
 1383 element.
- 1384

1385 3.9.5 Message Example

1386 Below are two example ResponseToRequestInformation messages. These are example responses to the
1387 RequestInformation messages shown in Section 3.8.5.

1388

1389 [Note: The XML examples shown in this section are informative only.]

```
1390 <?xml version="1.0" encoding="UTF-8"?>
1391 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1392   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1393     EDXL-RMResponseToRequestInformation.xsd"
1394   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1395   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1396   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1397   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1398   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1399   xmlns:gml="http://www.opengis.net/gml">
1400 <MessageID>urn:au-qld-eoc:12346</MessageID>
1401 <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
1402 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1403 <MessageDescription>
1404   Team consists of 5 overhead (2 person) crews with material handlers; 1
1405   overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and fleet
1406   services support. Each team is additionally equipped with digger derrick/pole
1407   trailer and auxiliary (material handler or 36' bucket).
1408 </MessageDescription>
1409 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1410 <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
1411 <IncidentInformation>
1412   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1413 </IncidentInformation>
1414 <ContactInformation>
1415   <rm:ContactRole>Sender</rm:ContactRole>
1416   <rm:AdditionalContactInformation>
1417     <xpil:PartyName>
1418       <xnl:PersonName>
1419         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1420         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1421       </xnl:PersonName>
1422       <xnl:OrganisationName>
1423         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1424       </xnl:OrganisationName>
1425     </xpil:PartyName>
1426     <xpil:ContactNumbers>
1427       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1428         xpil:ContactHours="9:00AM - 5:00PM">
1429         <xpil:ContactNumberElement
1430           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1431         <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1432         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1433           3000
1434           1234
1435         </xpil:ContactNumberElement>
1436       </xpil:ContactNumber>
1437     </xpil:ContactNumbers>
1438     <xpil:ElectronicAddressIdentifiers>
1439       <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
1440     </xpil:ElectronicAddressIdentifier>
1441     </xpil:ElectronicAddressIdentifiers>
1442   </rm:AdditionalContactInformation>
1443 </ContactInformation>
1444 </ResponseToRequestInformation>
```

```

1445 <?xml version="1.0" encoding="UTF-8"?>
1446 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1447   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1448     EDXL-RMResponseToRequestInformation.xsd"
1449   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1450   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1451   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1452   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1453   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1454   xmlns:gml="http://www.opengis.net/gml">
1455 <MessageID>urn:au-qld-eoc:77397</MessageID>
1456 <SentDateTime>2006-03-22T08:22:00+10:00</SentDateTime>
1457 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1458 <MessageDescription>
1459   QBuild can send a damage assessment team from Cairns this afternoon.
1460 </MessageDescription>
1461 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1462 <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
1463 <IncidentInformation>
1464   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1465 </IncidentInformation>
1466 <ContactInformation>
1467   <rm:ContactRole>Sender</rm:ContactRole>
1468   <rm:AdditionalContactInformation>
1469     <xpil:PartyName>
1470       <xnl:PersonName>
1471         <xnl:NameElement xnl:ElementType="FirstName">Barnaby</xnl:NameElement>
1472         <xnl:NameElement xnl:ElementType="LastName">James</xnl:NameElement>
1473       </xnl:PersonName>
1474       <xnl:OrganisationName>
1475         <xnl:NameElement>EMA</xnl:NameElement>
1476       </xnl:OrganisationName>
1477     </xpil:PartyName>
1478     <xpil:ContactNumbers>
1479       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1480         <xpil:ContactNumberElement
1481           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1482         <xpil:ContactNumberElement xpil:Type="AreaCode">2</xpil:ContactNumberElement>
1483         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1484           9864
1485           4329
1486         </xpil:ContactNumberElement>
1487       </xpil:ContactNumber>
1488     </xpil:ContactNumbers>
1489   </rm:AdditionalContactInformation>
1490 </ContactInformation>
1491 <ContactInformation>
1492   <rm:ContactRole>Requester</rm:ContactRole>
1493   <rm:AdditionalContactInformation>
1494     <xpil:PartyName>
1495       <xnl:PersonName>
1496         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1497         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1498       </xnl:PersonName>
1499       <xnl:OrganisationName>
1500         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1501       </xnl:OrganisationName>
1502     </xpil:PartyName>
1503   </rm:AdditionalContactInformation>
1504 </ContactInformation>
1505 <ResourceInformation>
1506   <ResourceInfoElementID>001</ResourceInfoElementID>
1507   <Resource>
1508     <TypeStructure>
1509       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1510       <rm:Value>Engineering Services: Damage Assessment Team</rm:Value>
1511     </TypeStructure>
1512   </Resource>
1513 <AssignmentInformation>
1514   <Quantity>
1515     <rm:MeasuredQuantity>

```

```
1516     <rm:Amount>1</rm:Amount>
1517     </rm:MeasuredQuantity>
1518     </Quantity>
1519     <AnticipatedFunction>
1520         Preliminary assessment of cracks in Centenary Bridge,
1521         Innisfail.
1522     </AnticipatedFunction>
1523 </AssignmentInformation>
1524 <ScheduleInformation>
1525     <ScheduleType>EstimatedDeparture</ScheduleType>
1526     <DateTime>2006-03-22T15:00:00</DateTime>
1527     <Location>
1528         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1529     </Location>
1530 </ScheduleInformation>
1531 <ScheduleInformation>
1532     <ScheduleType>EstimatedArrival</ScheduleType>
1533     <DateTime>2006-03-25T16:00:00+10:00</DateTime>
1534     <Location>
1535         <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1536     </Location>
1537 </ScheduleInformation>
1538 </ResourceInformation>
1539 </ResponseToRequestInformation>
```

1540

1541

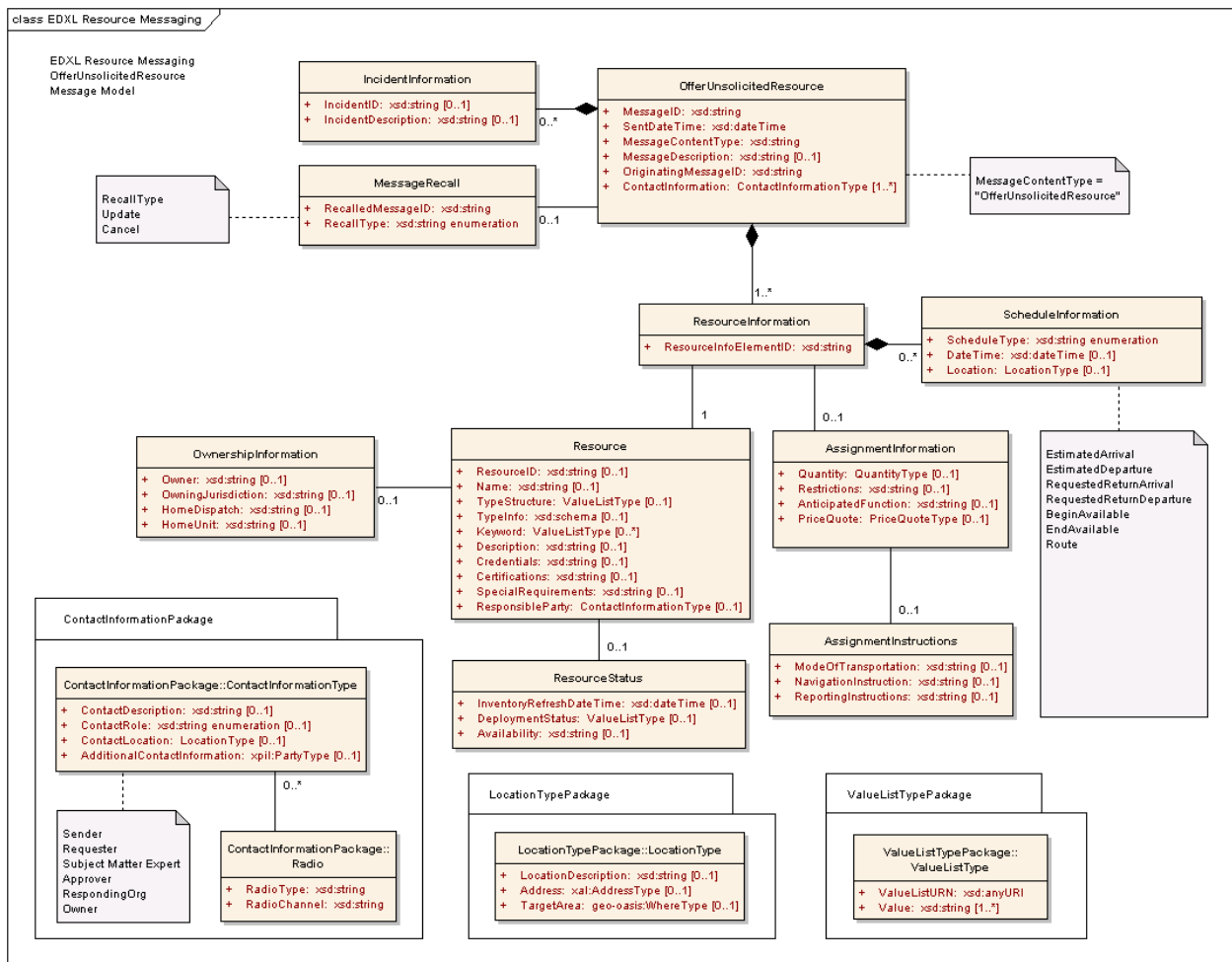
1542 **3.10 OfferUnsolicitedResource Message**

1543 **3.10.1 Overview**

1544 The “OfferUnsolicitedResource” message is used to offer available resources (that have not been
 1545 requested) to assist with an emergency response.

1546 **3.10.2 Element Reference Model**

1547 Figure 10 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 1548 OfferUnsolicitedResource Message. The ERM shows the element-level details for the main entities in the
 1549 RM.



1550
 1551 *Figure 10: EDXL-RM ERM for OfferUnsolicitedResource Message*

1550
 1551
 1552
 1553

1554 The following table outlines the element cardinalities for this message type.

1555

1556

Table 9: OfferUnsolicitedResource Message Elements

Parent Element	Sub-Elements
OfferUnsolicitedResource	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID , IncidentInformation*, MessageRecall, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
ResourceInformation	ResourceInfoElementID, Resource , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

1557

1558 3.10.3 OfferUnsolicitedResource Message Rules

1559 The following rules apply to the above elements:

- 1560 • The OfferUnsolicitedResource:MessageID, OfferUnsolicitedResource:SentDateTime
1561 OfferUnsolicitedResource:MessageContentType,
1562 OfferUnsolicitedResource:OriginatingMessageID, OfferUnsolicitedResource:ContactInformation,
1563 and OfferUnsolicitedResource:ResourceInformation elements MUST be present.
- 1564 • The value of OfferUnsolicitedResource:MessageContentType MUST be
1565 "OfferUnsolicitedResource".
- 1566 • If an OfferUnsolicitedResource:IncidentInformation element is present, then at least one of
1567 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1568 present.
- 1569 • If the OfferUnsolicitedResource:MessageRecall element is present, then the
1570 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1571 • For each OfferUnsolicitedResource:ResourceInformation element, the
1572 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1573 MUST be present.
- 1574 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1575 MUST be present.

- 1576 • If a Resource:OwnershipInformation element is present, then at least one of
1577 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1578 be present.
- 1579 • If the ResourceInformation:ScheduleInformation element is present, then the
1580 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1581 values:
 - 1582 • "EstimatedArrival", "EstimatedDeparture", "RequestedReturnDeparture",
1583 "RequestedReturnArrival", "BeginAvailable", "EndAvailable", or "Route".

1584

1585 The schema for an OfferUnsolicitedResource message can be found in Appendix A.9.

1586 3.10.4 Message Flow

1587 The OfferUnsolicitedResource message is an initial message created and sent by the Resource Supplier
1588 to any number of Resource Consumers.

1589 The potential responses to this message include:

- 1590 • RequestInformation (See Section 3.8)
- 1591 • RequisitionResource (See Section 3.6)

1592 The message may be canceled or updated through the OfferUnsolicitedResource:MessageRecall
1593 element.

1594

1595 3.10.5 Message Example

1596 Below is an example OfferUnsolicitedResource message. This message offers a donation of 100 large
1597 and 100 small tarpaulins.

1598

1599 [Note: The XML example shown in this section is informative only.]

```

1600 <?xml version="1.0" encoding="UTF-8"?>
1601 <OfferUnsolicitedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1602   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1603     EDXL-RMOfferUnsolicitedResource.xsd"
1604   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1605   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1606   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1607   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
1608   <MessageID>urn:au-qld-eoc:84313</MessageID>
1609   <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
1610   <MessageContentType>OfferUnsolicitedResource</MessageContentType>
1611   <MessageDescription>
1612     We would like to donate 100 small and 100 large tarps for use by residents
1613     whose homes have been damaged by the cyclone.
1614   </MessageDescription>
1615   <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
1616   <IncidentInformation>
1617     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1618   </IncidentInformation>
1619   <ContactInformation>
1620     <rm:ContactRole>Owner</rm:ContactRole>
1621     <rm:AdditionalContactInformation>
1622       <xpil:PartyName>
1623         <xnl:PersonName>
1624           <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
1625           <xnl:NameElement xnl:ElementType="LastName">Williams</xnl:NameElement>
1626         </xnl:PersonName>
1627         <xnl:OrganisationName>
1628           <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>

```

```

1629     </xnl:OrganisationName>
1630 </xpil:PartyName>
1631 <xpil:Addresses>
1632   <xpil:Address>
1633     <xal:Country>
1634       <xal:NameElement>Australia</xal:NameElement>
1635     </xal:Country>
1636     <xal:AdministrativeArea>
1637       <xal:NameElement>QLD</xal:NameElement>
1638     </xal:AdministrativeArea>
1639     <xal:Locality>
1640       <xal:NameElement>Cairns</xal:NameElement>
1641     </xal:Locality>
1642     <xal:Thoroughfare>
1643       <xal:NameElement>Spence St</xal:NameElement>
1644     </xal:Thoroughfare>
1645     <xal:PostCode>
1646       <xal:Identifier>4870</xal:Identifier>
1647     </xal:PostCode>
1648   </xpil:Address>
1649 </xpil:Addresses>
1650 <xpil:ContactNumbers>
1651   <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1652     xpil:ContactHours="8:00AM - 6:00PM">
1653     <xpil:ContactNumberElement
1654       xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1655     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1656     <xpil:ContactNumberElement xpil:Type="LocalNumber">
1657       4052
1658       0378
1659     </xpil:ContactNumberElement>
1660   </xpil:ContactNumber>
1661 </xpil:ContactNumbers>
1662 </rm:AdditionalContactInformation>
1663 </ContactInformation>
1664 <ResourceInformation>
1665   <ResourceInfoElementID>001</ResourceInfoElementID>
1666   <Resource>
1667     <TypeStructure>
1668       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1669       <rm:Value>Large tarpaulin</rm:Value>
1670     </TypeStructure>
1671     <Description> 30 x 40 ft, 800 denier blue tarp </Description>
1672   </Resource>
1673 <AssignmentInformation>
1674   <Quantity>
1675     <rm:MeasuredQuantity>
1676       <rm:Amount>100</rm:Amount>
1677     </rm:MeasuredQuantity>
1678   </Quantity>
1679   <AssignmentInstructions>
1680     <rm:ModeOfTransportation>
1681       We have a truck available to deliver to Innisfail (or other
1682       preferred location).
1683     </rm:ModeOfTransportation>
1684   </AssignmentInstructions>
1685 </AssignmentInformation>
1686 <ScheduleInformation>
1687   <ScheduleType>BeginAvailable</ScheduleType>
1688   <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1689   <Location>
1690     <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1691     <rm:Address>
1692       <xal:Country>
1693         <xal:NameElement>Australia</xal:NameElement>
1694       </xal:Country>
1695       <xal:AdministrativeArea>
1696         <xal:NameElement>QLD</xal:NameElement>
1697       </xal:AdministrativeArea>
1698       <xal:Locality>
1699         <xal:NameElement>Cairns</xal:NameElement>

```

```

1700     </xal:Locality>
1701     <xal:Thoroughfare>
1702         <xal:NameElement>Spence St</xal:NameElement>
1703     </xal:Thoroughfare>
1704     <xal:PostCode>
1705         <xal:Identifier>4870</xal:Identifier>
1706     </xal:PostCode>
1707     </rm:Address>
1708 </Location>
1709 </ScheduleInformation>
1710 </ResourceInformation>
1711 <ResourceInformation>
1712     <ResourceInfoElementID>002</ResourceInfoElementID>
1713     <Resource>
1714         <TypeStructure>
1715             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1716             <rm:Value>Small tarpaulin</rm:Value>
1717         </TypeStructure>
1718         <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1719     </Resource>
1720 <AssignmentInformation>
1721     <Quantity>
1722         <rm:MeasuredQuantity>
1723             <rm:Amount>100</rm:Amount>
1724         </rm:MeasuredQuantity>
1725     </Quantity>
1726     <AssignmentInstructions>
1727         <rm:ModeOfTransportation>
1728             We have a truck available to deliver to Innisfail (or other
1729             preferred location).
1730         </rm:ModeOfTransportation>
1731     </AssignmentInstructions>
1732 </AssignmentInformation>
1733 <ScheduleInformation>
1734     <ScheduleType>BeginAvailable</ScheduleType>
1735     <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1736     <Location>
1737         <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1738         <rm:Address>
1739             <xal:Country>
1740                 <xal:NameElement>Australia</xal:NameElement>
1741             </xal:Country>
1742             <xal:AdministrativeArea>
1743                 <xal:NameElement>QLD</xal:NameElement>
1744             </xal:AdministrativeArea>
1745             <xal:Locality>
1746                 <xal:NameElement>Cairns</xal:NameElement>
1747             </xal:Locality>
1748             <xal:Thoroughfare>
1749                 <xal:NameElement>Spence St</xal:NameElement>
1750             </xal:Thoroughfare>
1751             <xal:PostCode>
1752                 <xal:Identifier>4870</xal:Identifier>
1753             </xal:PostCode>
1754         </rm:Address>
1755     </Location>
1756 </ScheduleInformation>
1757 </ResourceInformation>
1758 </OfferUnsolicitedResource>

```

1759

1760 **3.11 ReleaseResource Message**

1761 **3.11.1 Overview**

1762 The “ReleaseResource” message is used by authorities at the incident to “release” (demobilize) a
 1763 resource back to its original point of assignment or to another location / assignment.

1764 **3.11.2 Element Reference Model**

1765 Figure 11 below shows the EDXL–RM Element Reference Model (ERM) tailored for the ReleaseResource
 1766 Message. The ERM shows the element-level details for the main entities in the RM.
 1767

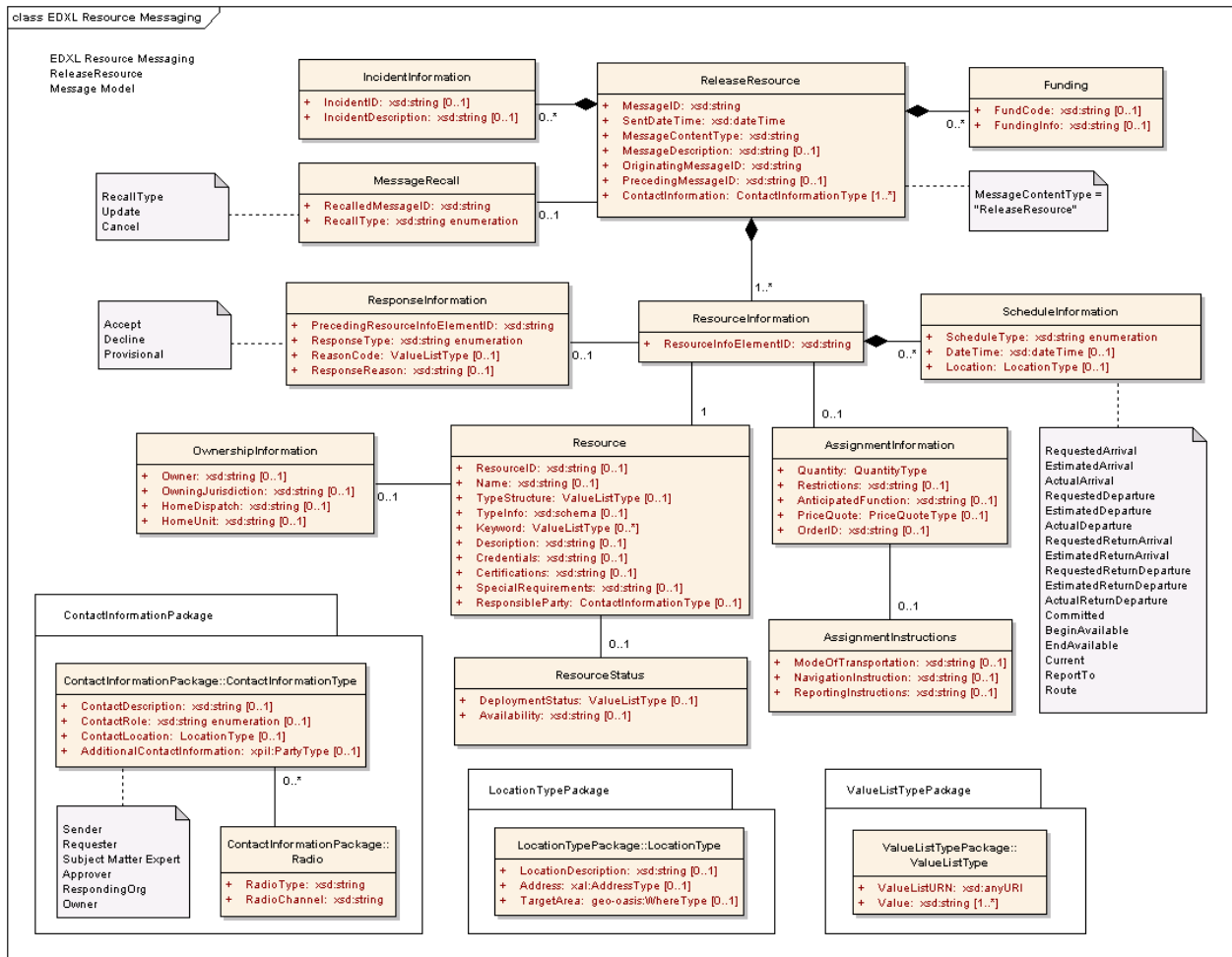


Figure 11: EDXL–RM ERM for ReleaseResource Message

1768
 1769
 1770
 1771

1772 The following table outlines the element cardinalities for this message type.

1773

1774

Table 11: ReleaseResource Message Elements

Parent Element	Sub-Elements
ReleaseResource	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation, Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType, ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType, DateTime, Location

1775

1776 3.11.3 ReleaseResource Message Rules

1777 The following rules apply to the above elements:

- 1778 • The ReleaseResource:MessageID, ReleaseResource:SentDateTime, ReleaseResource
1779 Message:MessageContentType, ReleaseResource:OriginatingMessageID,
1780 ReleaseResource:ContactInformation, and ReleaseResource:ResourceInformation elements
1781 MUST be present.
- 1782 • The value of ReleaseResource:MessageContentType MUST be "ReleaseResource".
- 1783 • If a ReleaseResource:IncidentInformation element is present, then at least one of
1784 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1785 present.
- 1786 • If the ReleaseResource:MessageRecall element is present, then the
1787 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1788 • If a ReleaseResource:Funding element is present, then at least one of Funding:FundCode and/or
1789 Funding:FundingInfo elements MUST be present.

- 1790 • For each ReleaseResource:ResourceInformation element, the
1791 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1792 MUST be present.
- 1793 • If a ResourceInformation:ResponseInformation element is present, then the
1794 ResponseInformation:PrecedingResourceInfoElementID and
1795 ResponseInformation:ResponseType elements MUST be present.
- 1796 • If a ResourceInformation:ResponseInformation element is present and the
1797 ResponseInformation:ResponseType has a value of "Provisional", then at least one of
1798 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1799 MUST be present.
- 1800 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1801 MUST be present.
- 1802 • If a Resource:OwnershipInformation element is present, then at least one of
1803 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1804 be present.
- 1805 • If the ResourceInformation:AssignmentInformation element is present, then the
1806 AssignmentInformation:Quantity element MUST be present.
- 1807 • If the ResourceInformation:ScheduleInformation element is present, then the
1808 ScheduleInformation:ScheduleType element MUST be present and contain one of the
1809 following values:
 - 1810 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
1811 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1812 "EstimatedReturnDeparture", "ActualReturnDeparture" "RequestedReturnArrival",
1813 "EstimatedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo",
1814 "Current" or "Route".
- 1815
- 1816 The schema for a ReleaseResource message can be found in Appendix A.10.

1817 3.11.4 Message Flow

1818 The ReleaseResource message is sent by the Resource Consumer to the Resource Supplier, and
1819 typically follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource
1820 messages).

1821 The potential responses to this message include:

- 1822 • RequestInformation (See Section 3.8)
- 1823 • RequisitionResource (See Section 3.6)
- 1824 • Consumers waiting on the release of resources may send to a RequisitionResource Message
1825 after receipt of a ReleaseResource Message.

1826 The message may be canceled or updated through the ReleaseResource:MessageRecall element.
1827

1828 3.11.5 Message Example

1829 Below is an example ReleaseResource message. This message releases the Small Animal Sheltering
1830 Team committed in the example in Section 3.7.5.

1831

1832 [Note: The XML example shown in this section is informative only.]

```
1833 <?xml version="1.0" encoding="UTF-8"?>
1834 <ReleaseResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```

1835     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1836         EDXL-RMReleaseResource.xsd"
1837     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1838     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1839     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1840     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1841     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
1842 <MessageID>urn:au-qld-eoc:997985</MessageID>
1843 <SentDateTime>2006-03-29T10:17:00+10:00</SentDateTime>
1844 <MessageContentType>ReleaseResource</MessageContentType>
1845 <MessageDescription>
1846     Small Animal Sheltering Team will be flying back to Cairns this evening.
1847 </MessageDescription>
1848 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1849 <IncidentInformation>
1850     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1851 </IncidentInformation>
1852 <ContactInformation>
1853     <rm:ContactRole>Sender</rm:ContactRole>
1854     <rm:AdditionalContactInformation>
1855         <xpil:PartyName>
1856             <xnl:PersonName>
1857                 <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1858                 <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1859             </xnl:PersonName>
1860             <xnl:OrganisationName>
1861                 <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1862             </xnl:OrganisationName>
1863         </xpil:PartyName>
1864         <xpil:ContactNumbers>
1865             <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1866                 xpil:ContactHours="9:00AM - 5:00PM">
1867                 <xpil:ContactNumberElement
1868                     xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1869                 <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1870                 <xpil:ContactNumberElement xpil:Type="LocalNumber">
1871                     3000
1872                     1234
1873                 </xpil:ContactNumberElement>
1874             </xpil:ContactNumber>
1875         </xpil:ContactNumbers>
1876         <xpil:ElectronicAddressIdentifiers>
1877             <xpil:ElectronicAddressIdentifier>
1878                 alexj@emergencyservices.gov.au
1879             </xpil:ElectronicAddressIdentifier>
1880         </xpil:ElectronicAddressIdentifiers>
1881     </rm:AdditionalContactInformation>
1882 </ContactInformation>
1883 <ResourceInformation>
1884     <ResourceInfoElementID>001</ResourceInfoElementID>
1885     <Resource>
1886         <TypeStructure>
1887             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1888             <rm:Value>Small Animal Sheltering Team</rm:Value>
1889         </TypeStructure>
1890     </Resource>
1891     <AssignmentInformation>
1892         <Quantity>
1893             <rm:MeasuredQuantity>
1894                 <rm:Amount>1</rm:Amount>
1895             </rm:MeasuredQuantity>
1896         </Quantity>
1897     </AssignmentInformation>
1898     <ScheduleInformation>
1899         <ScheduleType>Current</ScheduleType>
1900     <Location>
1901         <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1902         <rm:Address>
1903             <xal:Country>
1904                 <xal:NameElement>Australia</xal:NameElement>
1905             </xal:Country>

```

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```
<xal:AdministrativeArea>  
  <xal:NameElement>QLD</xal:NameElement>  
</xal:AdministrativeArea>  
<xal:Locality>  
  <xal:NameElement>Innisfail</xal:NameElement>  
</xal:Locality>  
<xal:Thoroughfare>  
  <xal:NameElement>Downing St</xal:NameElement>  
  <xal:Number>27</xal:Number>  
</xal:Thoroughfare>  
<xal:PostCode>  
  <xal:Identifier>4860</xal:Identifier>  
</xal:PostCode>  
</rm:Address>  
</Location>  
</ScheduleInformation>  
<ScheduleInformation>  
  <ScheduleType>EstimatedReturnDeparture</ScheduleType>  
  <DateTime>2006-03-29T19:05:00+10:00</DateTime>  
  <Location>  
    <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>  
  </Location>  
</ScheduleInformation>  
<ScheduleInformation>  
  <ScheduleType>EstimatedReturnArrival</ScheduleType>  
  <DateTime>2006-03-29T19:55:00+10:00</DateTime>  
  <Location>  
    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>  
  </Location>  
</ScheduleInformation>  
</ResourceInformation>  
</ReleaseResource>
```

1938

1939 **3.12 RequestReturn Message**

1940 **3.12.1 Overview**

1941 The “RequestReturn” message is used to request release (demobilization) of resource(s) back to its
 1942 original owning jurisdiction and location or to another location / assignment.

1943 **3.12.2 Element Reference Model**

1944 Figure 12 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestReturn
 1945 Message. The ERM shows the element-level details for the main entities in the RM.
 1946

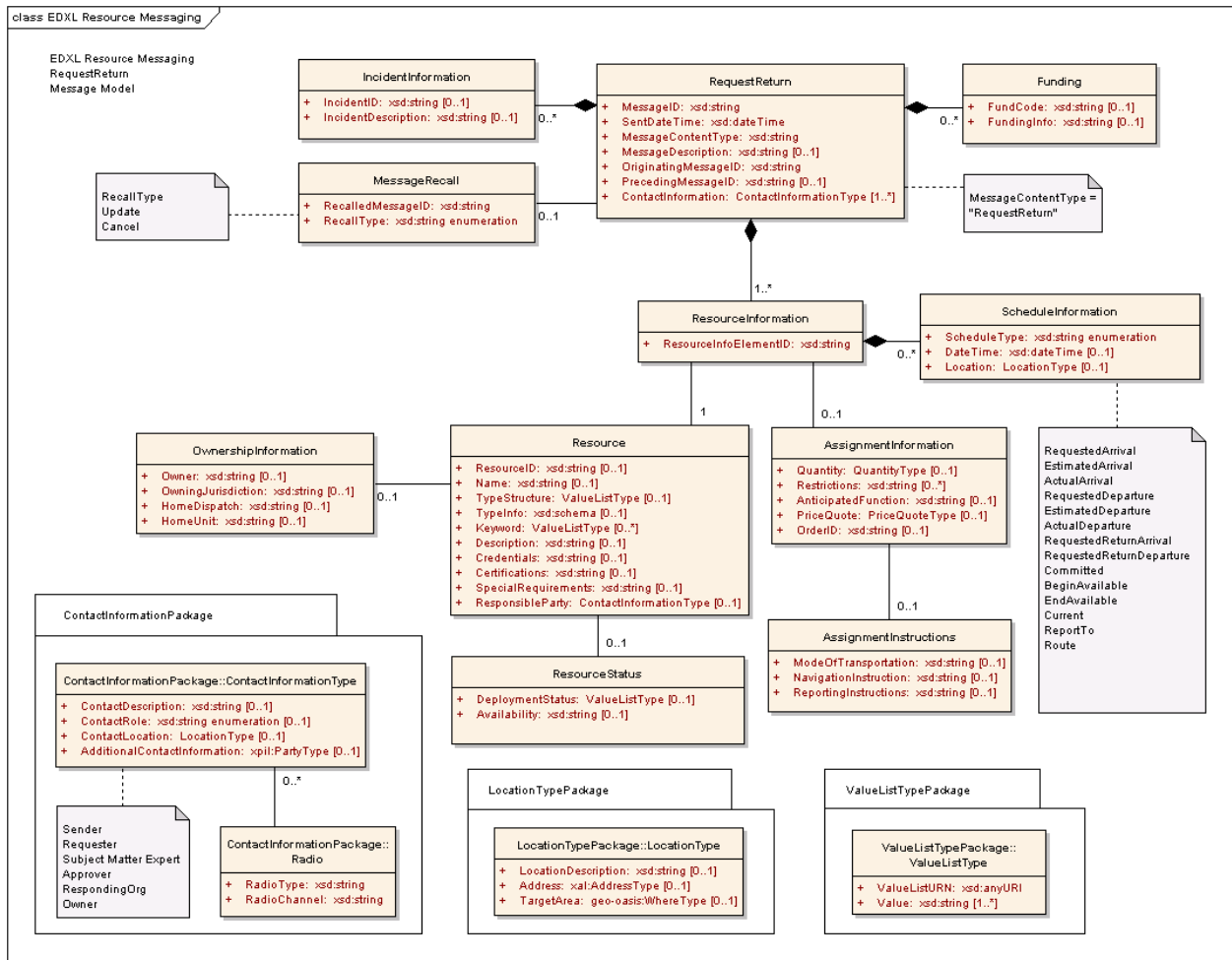


Figure 12: EDXL-RM ERM for RequestReturn Message

1947

1948

1949

1950

1951 The following table outlines the element cardinalities for this message type.

1952

1953

Table 12: RequestReturn Message Elements

Parent Element	Sub-Elements
RequestReturn	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource, AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType[^], DateTime, Location

1954

1955 3.12.3 RequestReturn Message Rules

1956 The following rules apply to the above elements:

- 1957 • The RequestReturn:MessageID, ResourceMessage:SentDateTime,
1958 RequestReturn:MessageContentType, RequestReturn:OriginatingMessageID,
1959 RequestReturn:ContactInformation, and RequestReturn:ResourceInformation elements MUST be
1960 present.
- 1961 • The value of RequestReturn:MessageContentType MUST be "RequestReturn".
- 1962 • If a RequestReturn:IncidentInformation element is present, then at least one of
1963 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1964 present.
- 1965 • If the RequestReturn:MessageRecall element is present, then the
1966 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1967 • If a RequestReturn:Funding element is present, then at least one of Funding:FundCode and/or
1968 Funding:FundingInfo elements MUST be present.
- 1969 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1970 MUST be present.
- 1971 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1972 MUST be present for each ResourceInformation:Resource element present.

- 1973 • If a Resource:OwnershipInformation element is present, then at least one of
- 1974 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
- 1975 be present.
- 1976 • If the ResourceInformation:ScheduleInformation element is present, then the
- 1977 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
- 1978 values:
- 1979 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
- 1980 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”,
- 1981 “RequestedReturnArrival”, “BeginAvailable”, “Committed”, “EndAvailable”, “Current”,
- 1982 “ReportTo” or “Route”.
- 1983
- 1984 The schema for a RequestReturn message can be found in Appendix A.11.

1985 3.12.4 Message Flow

- 1986 The RequestReturn message is sent by the Resource Supplier to the Resource Consumer, and typically
- 1987 follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource messages).
- 1988 The potential responses to this message include:
- 1989 • ResponseToRequestReturn (See Section 3.13)
- 1990 • ReleaseResource (See Section 3.11)
- 1991 • This includes Accept, Decline, and Provisional responses.
- 1992 The message may be canceled or updated through the RequestReturn:MessageRecall element.
- 1993

1994 3.12.5 Message Example

- 1995 Below is an example of a RequestReturn Message, in which one request return is shown:
- 1996 • Small Animal Sheltering Team (ResourceInfoElementID=001).
- 1997

1998 [Note: The XML example shown in this section is informative only.]

```

1999 <?xml version="1.0" encoding="UTF-8"?>
2000 <RequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2001   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2002     EDXL-RMRequestReturn.xsd"
2003   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2004   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2005   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2006   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2007   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2008 <MessageID>urn:au-qld-eoc:997821</MessageID>
2009 <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2010 <MessageContentType>RequestReturn</MessageContentType>
2011 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2012 <IncidentInformation>
2013   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2014 </IncidentInformation>
2015 <ContactInformation>
2016   <rm:ContactRole>Sender</rm:ContactRole>
2017   <rm:AdditionalContactInformation>
2018     <xpil:PartyName>
2019       <xnl:PersonName>
2020         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2021         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2022       </xnl:PersonName>
2023       <xnl:OrganisationName>
2024         <xnl:NameElement>EMA</xnl:NameElement>

```

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```
</xnl:OrganisationName>  
</xpil:PartyName>  
</rm:AdditionalContactInformation>  
</ContactInformation>  
<ResourceInformation>  
  <ResourceInfoElementID>001</ResourceInfoElementID>  
  <Resource>  
    <TypeStructure>  
      <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>  
      <rm:Value>Small Animal Sheltering Team</rm:Value>  
    </TypeStructure>  
  </Resource>  
<AssignmentInformation>  
  <Quantity>  
    <rm:MeasuredQuantity>  
      <rm:Amount>1</rm:Amount>  
    </rm:MeasuredQuantity>  
  </Quantity>  
</AssignmentInformation>  
<ScheduleInformation>  
  <ScheduleType>RequestedReturnArrival</ScheduleType>  
  <DateTime>2006-03-29T20:00:00+10:00</DateTime>  
  <Location>  
    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>  
  </Location>  
</ScheduleInformation>  
</ResourceInformation>  
</RequestReturn>
```

2053

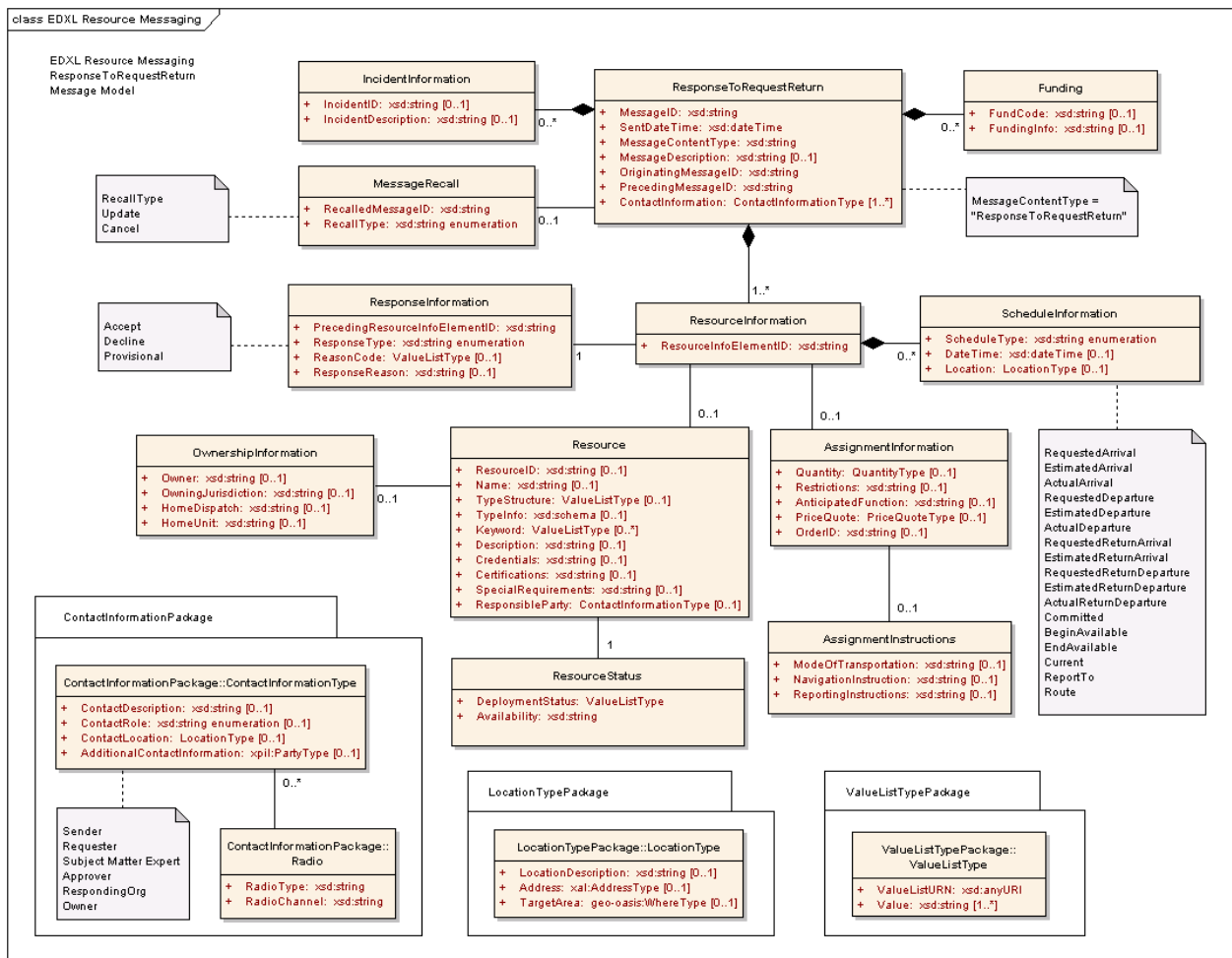
2054 **3.13 ResponseToRequestReturn Message**

2055 **3.13.1 Overview**

2056 The “ResponseToRequestReturn” message is used by Resource Consumers to respond to a
2057 RequestReturn message from Resource Suppliers. The response identifies the resources in the original
2058 request message and how the Resource Consumer has responded.

2059 **3.13.2 Element Reference Model**

2060 Figure 13 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2061 ResponseToRequestReturn Message. The ERM shows the element-level details for the main entities in
2062 the RM.



2063
2064 *Figure 13: EDXL-RM ERM for ResponseToRequestReturn Message*
2065
2066

2067 The following table outlines the element cardinalities for this message type.

2068

2069

Table 13: ResponseToRequestReturn Message Elements

Parent Element	Sub-Elements
ResponseToRequestReturn	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID, PrecedingMessageID , IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation , Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType , ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

2070

2071 3.13.3 ResponseToRequestReturn Message Rules

2072 The following rules apply to the above elements:

- 2073 • The ResponseToRequestReturn:MessageID, ResponseToRequestReturn:SentDateTime,
2074 ResponseToRequestReturn:MessageContentType,
2075 ResponseToRequestReturn:OriginatingMessageID,
2076 ResponseToRequestReturn:PrecedingMessageID,
2077 ResponseToRequestReturn:ContactInformation, and
2078 ResponseToRequestReturn:ResourceInformation elements MUST be present.
- 2079 • The value of ResponseToRequestReturn:MessageContentType MUST be
2080 "ResponseToRequestReturn".
- 2081 • If a ResponseToRequestReturn:IncidentInformation element is present, then at least one of
2082 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2083 present.
- 2084 • If the ResponseToRequestReturn:MessageRecall element is present, then the
2085 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2086 • If a ResponseToRequestReturn:Funding element is present, then at least one of
2087 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2088 • The ResourceInformation:ResourceInfoElementID and
2089 ResourceInformation:ResponseInformation elements MUST be present.
- 2090 • The ResponseInformation:PrecedingResourceInfoElementID and
2091 ResponseInformation:ResponseType elements MUST be present.
- 2092 • If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one
2093 of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2094 MUST be present.
- 2095 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2096 MUST be present for each ResourceInformation:Resource element present.
- 2097 • The Resource:ResourceStatus element MUST be present for each
2098 ResourceInformation:Resource element present.
- 2099 • If a Resource:OwnershipInformation element is present, then at least one of
2100 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2101 be present.
- 2102 • The ResourceStatus:DeploymentStatus and ResourceStatus:Availability elements MUST be
2103 present.
- 2104 • If the ResourceInformation:ScheduleInformation element is present, then the
2105 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2106 values:
 - 2107 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
2108 “EstimatedDeparture”, “ActualDeparture”, RequestedReturnArrival”,
2109 “EstimatedReturnArrival”, “BeginAvailable”, “RequestedReturnDeparture”,
2110 “EstimatedReturnDeparture”, “ActualReturnDeparture”, “EndAvailable”, “Committed”,
2111 “Current”, “ReportTo” or “Route.”

2112

2113 The schema for a ResponseToRequestReturn message can be found in Appendix A.12.

2114 3.13.4 Message Flow

2115 The ResponseToRequestReturn message is sent by a Resource Consumer in response to an original
2116 RequestReturn message sent by the Resource Supplier.

2117 The potential responses to this message include:

- 2118 • RequestReturn (See Section 3.12)
- 2119 • The Supplier may send this response when the Consumer has specified return conditions with
2120 which the Supplier is not in agreement.

2121 The message will typically be followed by a ReleaseResource message (See Section 3.11) when the
2122 Resource Consumer is ready to return the resource to the Resource Supplier.

2123 The message may be canceled or updated through the ResponseToRequestReturn:MessageRecall
2124 element.

2125

2126 3.13.5 Message Example

2127 Below is an example of a ResponseToRequestReturn message. This is an example response to the
2128 RequestReturn message shown in Section.3.12.5 The sender of the message is the original resource
2129 requester (Resource Consumer). The response is an “Accept” (i.e., the Resource Consumer agrees to
2130 return the resource according to the specified schedule).

2131

2132 [Note: The XML example shown in this section is informative only.]

```
2133 <?xml version="1.0" encoding="UTF-8"?>
2134 <ResponseToRequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2135   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2136     EDXL-RMResponseToRequestReturn.xsd"
2137   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2138   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2139   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2140   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2141   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2142   <MessageID>urn:au-qld-eoc:997981</MessageID>
2143   <SentDateTime>2006-03-28T16:17:00+10:00</SentDateTime>
2144   <MessageContentType>ResponseToRequestReturn</MessageContentType>
2145   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2146   <PrecedingMessageID>urn:au-qld-eoc:997821</PrecedingMessageID>
2147   <IncidentInformation>
2148     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2149   </IncidentInformation>
2150   <ContactInformation>
2151     <rm:ContactRole>Sender</rm:ContactRole>
2152     <rm:AdditionalContactInformation>
2153       <xpil:PartyName>
2154         <xnl:PersonName>
2155           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2156           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2157         </xnl:PersonName>
2158         <xnl:OrganisationName>
2159           <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2160         </xnl:OrganisationName>
2161       </xpil:PartyName>
2162     </rm:AdditionalContactInformation>
2163   </ContactInformation>
2164   <ResourceInformation>
2165     <ResourceInfoElementID>001</ResourceInfoElementID>
2166     <ResponseInformation>
2167       <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2168       <rm:ResponseType>Accept</rm:ResponseType>
2169     </ResponseInformation>
2170   </ResourceInformation>
2171 </ResponseToRequestReturn>
```

2172

2173 **3.14 RequestQuote Message**

2174 **3.14.1 Overview**

2175 The “RequestQuote” message is used by the Resource Consumer to request a price quote from the
2176 Resource Supplier.

2177 **3.14.2 Element Reference Model**

2178 Figure 14 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestQuote
2179 Message. The ERM shows the element-level details for the main entities in the RM.

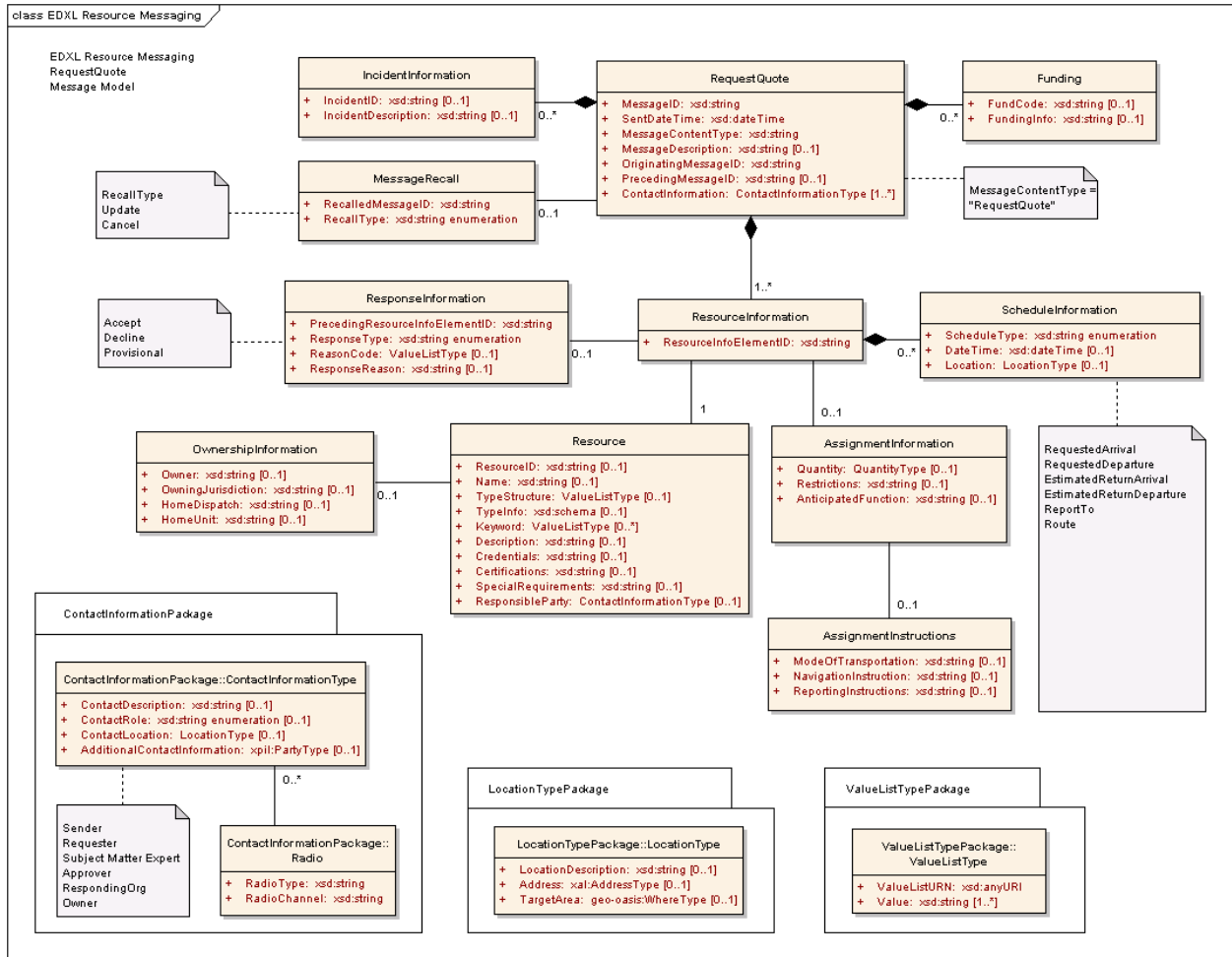


Figure 14: EDXL-RM ERM for RequestQuote Message

2180
2181
2182
2183

2184 The following table outlines the element cardinalities for this message type.

2185

2186

Table 14: RequestQuote Message Elements

Parent Element	Sub-Elements
RequestQuote	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID , PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID , ResponseInformation, Resource , AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType , <i>ReasonCode, ResponseReason</i>
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

2187

2188 3.14.3 RequestQuote Message Rules

2189 The following rules apply to the above elements:

- 2190 • The RequestQuote:MessageID, RequestQuote:SentDateTime,
2191 RequestQuote:MessageContentType, RequestQuote:OriginatingMessageID,
2192 RequestQuote:ContactInformation, and RequestQuote:ResourceInformation elements MUST be
2193 present.
- 2194 • The value of RequestQuote:MessageContentType MUST be "RequestQuote".
- 2195 • If a RequestQuote:IncidentInformation element is present, then at least one of
2196 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2197 present.
- 2198 • If the RequestQuote:MessageRecall element is present, then the
2199 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2200 • If a RequestQuote:Funding element is present, then at least one of Funding:FundCode and/or
2201 Funding:FundingInfo elements MUST be present.
- 2202 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2203 MUST be present.

- 2204 • If the ResourceInformation:ResponseInformation element is present, then the
2205 ResponseInformation:PrecedingResourceInfoElementID" and
2206 "ResponseInformation:ResponseType MUST be present.
- 2207 • If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
2208 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2209 MUST be present.
- 2210 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2211 MUST be present for each ResourceInformation:Resource element present.
- 2212 • If a Resource:OwnershipInformation element is present, then at least one of
2213 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2214 be present.
- 2215 • If the ResourceInformation:ScheduleInformation element is present, then the
2216 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2217 values:
 - 2218 • "RequestedArrival", "RequestedDeparture", "EstimatedReturnDeparture",
2219 "EstimatedReturnArrival", "ReportTo" or "Route".

2220

2221 The schema for a RequestQuote message can be found in Appendix A.13.

2222 3.14.4 Message Flow

2223 The RequestQuote message is usually an initial message created and sent by the Resource Consumer to
2224 any number of Resource Suppliers.

2225 The potential responses to this message include:

- 2226 • ResponseToRequestQuote (See 3.15)
- 2227 • This includes Accept, Decline, and Provisional responses.

2228 The message may be canceled or updated through the RequestQuote:MessageRecall element.

2229

2230 3.14.5 Message Example

2231 Below is an example RequestQuote message. This message requests quotes for a "Debris Management
2232 Team" (ResourceInfoElementID=001) and two "All Terrain Cranes" (ResourceInfoElementID=002).

2233

2234 [Note: The XML example shown in this section is informative only.]

```

2235 <?xml version="1.0" encoding="UTF-8"?>
2236 <RequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2237   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2238     EDXL-RMRequestQuote.xsd"
2239   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2240   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2241   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2242   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2243   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2244   <MessageID>urn:au-qld-eoc:77388</MessageID>
2245   <SentDateTime>2006-03-30T10:45:00+10:00</SentDateTime>
2246   <MessageContentType>RequestQuote</MessageContentType>
2247   <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2248   <IncidentInformation>
2249     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2250   </IncidentInformation>
2251   <ContactInformation>
2252     <rm:ContactRole>Sender</rm:ContactRole>
2253     <rm:AdditionalContactInformation>

```

```

2254 <xpil:PartyName>
2255   <xnl:PersonName>
2256     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2257     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2258   </xnl:PersonName>
2259   <xnl:OrganisationName>
2260     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2261   </xnl:OrganisationName>
2262 </xpil:PartyName>
2263 <xpil:ContactNumbers>
2264   <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
2265     xpil:ContactHours="9:00AM - 5:00PM">
2266     <xpil:ContactNumberElement
2267       xpil:Type="CountryCode">61</xpil:ContactNumberElement>
2268     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
2269     <xpil:ContactNumberElement xpil:Type="LocalNumber">
2270       3000
2271       1234
2272     </xpil:ContactNumberElement>
2273   </xpil:ContactNumber>
2274 </xpil:ContactNumbers>
2275 <xpil:ElectronicAddressIdentifiers>
2276   <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
2277   </xpil:ElectronicAddressIdentifier>
2278 </xpil:ElectronicAddressIdentifiers>
2279 </rm:AdditionalContactInformation>
2280 </ContactInformation>
2281 <ResourceInformation>
2282   <ResourceInfoElementID>001</ResourceInfoElementID>
2283 <Resource>
2284   <TypeStructure>
2285     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2286     <rm:Value>Debris Management Team</rm:Value>
2287   </TypeStructure>
2288   <Description>
2289     5 person team to clear roads of debris incl. fallen trees. </Description>
2290   <SpecialRequirements>
2291     Team to supply own equipment, such as trucks and chainsaws
2292   </SpecialRequirements>
2293 </Resource>
2294 <AssignmentInformation>
2295   <Quantity>
2296     <rm:MeasuredQuantity>
2297       <rm:Amount>1</rm:Amount>
2298     </rm:MeasuredQuantity>
2299   </Quantity>
2300 <AssignmentInstructions>
2301   <rm:ModeOfTransportation>Team's own trucks</rm:ModeOfTransportation>
2302 </AssignmentInstructions>
2303 </AssignmentInformation>
2304 <ScheduleInformation>
2305   <ScheduleType>ReportTo</ScheduleType>
2306   <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2307 <Location>
2308   <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2309   <rm:Address>
2310     <xal:Country>
2311       <xal:NameElement>Australia</xal:NameElement>
2312     </xal:Country>
2313     <xal:AdministrativeArea>
2314       <xal:NameElement>QLD</xal:NameElement>
2315     </xal:AdministrativeArea>
2316     <xal:Locality>
2317       <xal:NameElement>Innisfail</xal:NameElement>
2318     </xal:Locality>
2319     <xal:Thoroughfare>
2320       <xal:NameElement>Rankin St</xal:NameElement>
2321       <xal:Number>70</xal:Number>
2322     </xal:Thoroughfare>
2323   </rm:Address>

```

```

2324     </Location>
2325 </ScheduleInformation>
2326 <ScheduleInformation>
2327   <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2328   <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2329 </ScheduleInformation>
2330 </ResourceInformation>
2331 <ResourceInformation>
2332   <ResourceInfoElementID>002</ResourceInfoElementID>
2333   <Resource>
2334     <TypeStructure>
2335       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2336       <rm:Value>All Terrain Crane</rm:Value>
2337     </TypeStructure>
2338     <Description> Crane with minimum boom reach of 150 feet. </Description>
2339 </Resource>
2340 <AssignmentInformation>
2341   <Quantity>
2342     <rm:MeasuredQuantity>
2343       <rm:Amount>2</rm:Amount>
2344     </rm:MeasuredQuantity>
2345   </Quantity>
2346 </AssignmentInformation>
2347 <ScheduleInformation>
2348   <ScheduleType>ReportTo</ScheduleType>
2349   <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2350   <Location>
2351     <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2352     <rm:Address>
2353       <xal:Country>
2354         <xal:NameElement>Australia</xal:NameElement>
2355       </xal:Country>
2356       <xal:AdministrativeArea>
2357         <xal:NameElement>QLD</xal:NameElement>
2358       </xal:AdministrativeArea>
2359       <xal:Locality>
2360         <xal:NameElement>Innisfail</xal:NameElement>
2361       </xal:Locality>
2362       <xal:Thoroughfare>
2363         <xal:NameElement>Rankin St</xal:NameElement>
2364         <xal:Number>70</xal:Number>
2365       </xal:Thoroughfare>
2366     </rm:Address>
2367   </Location>
2368 </ScheduleInformation>
2369 <ScheduleInformation>
2370   <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2371   <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2372 </ScheduleInformation>
2373 </ResourceInformation>
2374 </RequestQuote>

```

2375

2376 **3.15 ResponseToRequestQuote Message**

2377 **3.15.1 Overview**

2378 The “ResponseToRequestQuote” message is used by the Resource Supplier to respond to a
 2379 RequestQuote Message. The supplier may respond with pricing or decline to respond with pricing (i.e. a
 2380 response that says that the Resource Supplier is unable to supply a requested quote). The Resource
 2381 Supplier may provide quotes for several alternative resources that match a single resource request.

2382 **3.15.2 Element Reference Model**

2383 Figure 15 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2384 ResponseToRequestQuote Message. The ERM shows the element-level details for the main entities in
 2385 the RM.

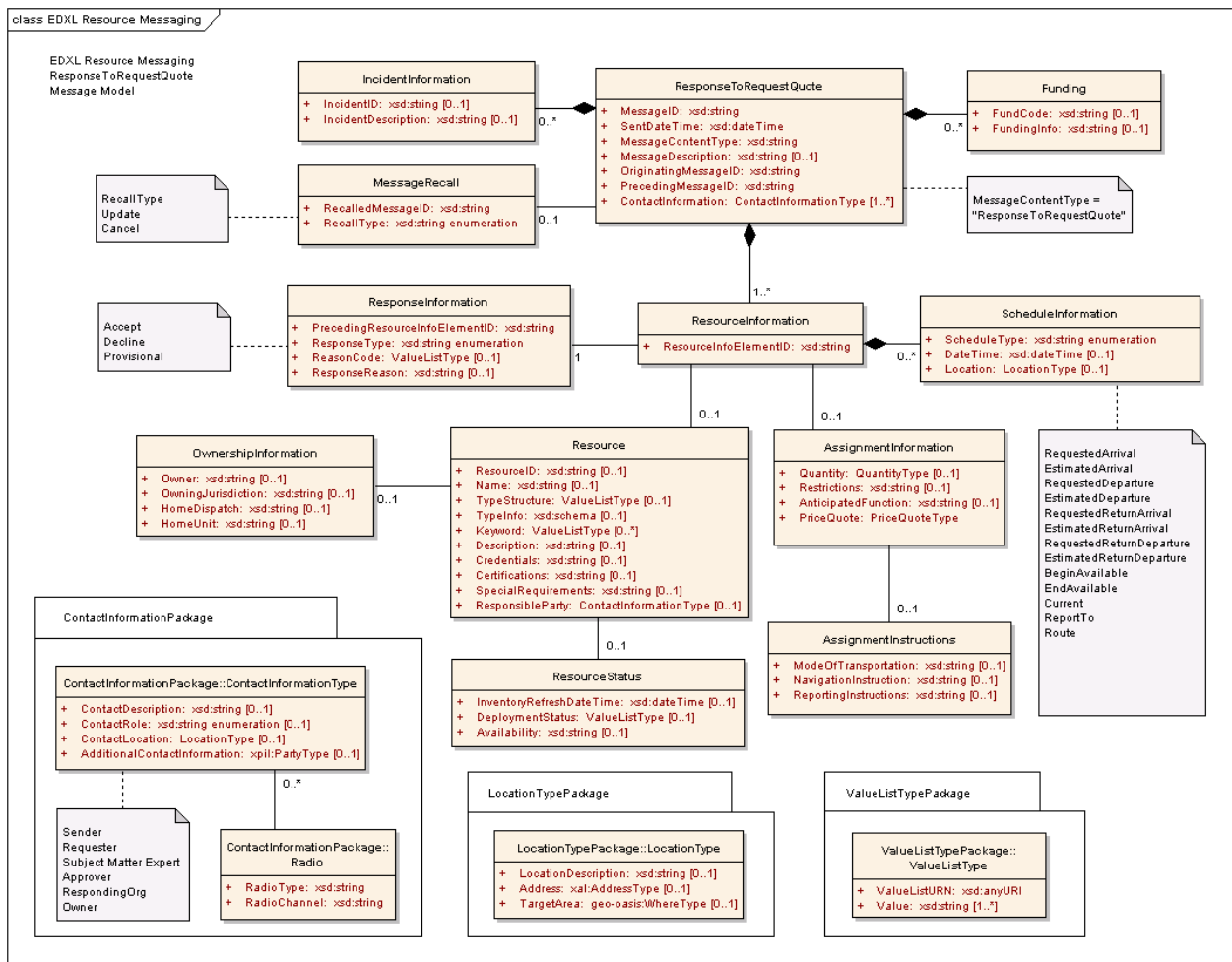


Figure 15: EDXL-RM ERM for ResponseToRequestQuote Message

2386
 2387
 2388
 2389

2390 The following table outlines the element cardinalities for this message type.

2391

2392

Table 15: ResponseToRequestQuote Message Elements

Parent Element	Sub-Elements
ResponseToRequestQuote	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID, PrecedingMessageID , IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation, Resource , AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType, ReasonCode , ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote , AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

2393

2394 3.15.3 ResponseToRequestQuote Message Rules

2395 The following rules apply to the above elements:

- 2396 • The ResponseToRequestQuote:MessageID, ResponseToRequestQuote:SentDateTime,
2397 ResponseToRequestQuote:MessageContentType,
2398 ResponseToRequestQuote:OriginatingMessageID,
2399 ResponseToRequestQuote:PrecedingMessageID,
2400 ResponseToRequestQuote:ContactInformation, and
2401 ResponseToRequestQuote:ResourceInformation elements MUST be present.
- 2402 • The value of ResponseToRequestQuote:MessageContentType MUST be "ResponseToRequest
2403 Quote".
- 2404 • If a ResponseToRequestQuote:IncidentInformation element is present, then at least one of
2405 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2406 present.
- 2407 • If the ResponseToRequestQuote:MessageRecall element is present, then the
2408 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2409 • If a ResponseToRequestQuote:Funding element is present, then at least one of
2410 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2411 • The ResourceInformation:ResourceInfoElementID and
2412 ResourceInformation:ResponseInformation elements MUST be present.
- 2413 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
2414 the ResourceInformation:Resource element MUST be present.
- 2415 • The ResponseInformation:PrecedingResourceInfoElementID and
2416 ResponseInformation:ResponseType elements MUST be present.
- 2417 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
2418 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2419 MUST be present.
- 2420 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2421 MUST be present for each ResourceInformation:Resource element present.
- 2422 • If a Resource:OwnershipInformation element is present, then at least one of
2423 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be
2424 present.
- 2425 • If a ResourceInformation:AssignmentInformation element is present, then the
2426 AssignmentInformation:PriceQuote element MUST be present.
- 2427 • If the ResourceInformation:ScheduleInformation element is present, then the
2428 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2429 values:
 - 2430 • “EstimatedArrival”, “RequestedArrival”, “RequestedDeparture”, “EstimatedDeparture”,
2431 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “RequestedReturnArrival”,
2432 “EstimatedReturnArrival”, “BeginAvailable”, “EndAvailable”, “Current”, “ReportTo” or “Route”.
- 2433
- 2434 The schema for a ResponseToRequestQuote message can be found in Appendix A.14.

2435 3.15.4 Message Flow

- 2436 The ResponseToRequestQuote message is sent by the Resource Supplier to the Resource Consumer in
2437 response to a RequestQuote message.
- 2438 The potential responses to this message include:
 - 2439 • Request Information (See Section 3.8)
 - 2440 • RequisitionResource (See Section 3.6).
- 2441 The message may be canceled or updated through the ResponseToRequestQuote:MessageRecall
2442 element.
- 2443

2444 3.15.5 Message Example

2445 Below is an example ResponseToRequestQuote message. The message is a possible response to the
2446 RequestQuote message shown in Section 3.14.5. The first quote request (“Debris Management Team”,
2447 ResourceInfoElementID=001) is accepted, while the second (“All Terrain Crane”,
2448 ResourceInfoElementID=002) is declined.

2449

2450 [Note: The XML example shown in this section is informative only.]

2451
2452
2453

```
<?xml version="1.0" encoding="UTF-8" ?>
<ResponseToRequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```



```

2454     EDXL-RMResponseToRequestQuote.xsd"
2455     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2456     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2457     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2458     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2459     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2460 <MessageID>urn:au-qld-eoc:77396</MessageID>
2461 <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2462 <MessageContentType>ResponseToRequestQuote</MessageContentType>
2463 <MessageDescription>
2464     This message provides a quote for the services of a debris management team
2465     for the requested period of 3 weeks. We do not have any all-terrain cranes, and
2466     therefore unable to quote on this element of the request.
2467 </MessageDescription>
2468 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2469 <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
2470 <IncidentInformation>
2471     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2472 </IncidentInformation>
2473 <ContactInformation>
2474     <rm:ContactRole>Sender</rm:ContactRole>
2475     <rm:AdditionalContactInformation>
2476         <xpil:PartyName>
2477             <xnl:PersonName>
2478                 <xnl:NameElement xnl:ElementType="FirstName">Alison</xnl:NameElement>
2479                 <xnl:NameElement xnl:ElementType="LastName">Smith</xnl:NameElement>
2480             </xnl:PersonName>
2481             <xnl:OrganisationName>
2482                 <xnl:NameElement>QBuild</xnl:NameElement>
2483             </xnl:OrganisationName>
2484         </xpil:PartyName>
2485     </rm:AdditionalContactInformation>
2486 </ContactInformation>
2487 <ContactInformation>
2488     <rm:ContactRole>Requester</rm:ContactRole>
2489     <rm:AdditionalContactInformation>
2490         <xpil:PartyName>
2491             <xnl:PersonName>
2492                 <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2493                 <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2494             </xnl:PersonName>
2495             <xnl:OrganisationName>
2496                 <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2497             </xnl:OrganisationName>
2498         </xpil:PartyName>
2499     </rm:AdditionalContactInformation>
2500 </ContactInformation>
2501 <ResourceInformation>
2502     <ResourceInfoElementID>001</ResourceInfoElementID>
2503     <ResponseInformation>
2504         <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2505         <rm:ResponseType>Accept</rm:ResponseType>
2506     </ResponseInformation>
2507     <Resource>
2508         <TypeStructure>
2509             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2510             <rm:Value>Debris Management Team</rm:Value>
2511         </TypeStructure>
2512         <Description>
2513             5 person team to clear roads of debris incl. fallen trees. </Description>
2514         <SpecialRequirements>
2515             Team to supply own equipment, such as trucks and chainsaws
2516         </SpecialRequirements>
2517     </Resource>
2518     <AssignmentInformation>
2519         <Quantity>
2520             <rm:MeasuredQuantity>
2521                 <rm:Amount>1</rm:Amount>
2522             </rm:MeasuredQuantity>
2523         </Quantity>

```

```

2524     </PriceQuote>
2525     <rm:QuantityText>Daily rate: $2100</rm:QuantityText>
2526     <rm:QuantityText>Total before tax: $31500</rm:QuantityText>
2527     <rm:QuantityText>Tax: $3150</rm:QuantityText>
2528     <rm:QuantityText>Total including tax: $34650</rm:QuantityText>
2529     <rm:QuantityText>
2530     NOTES: Accommodation for the team will be organised and paid by us. Team will
2531     work Mon-Fri for 3 weeks.Total including tax: $34650</rm:QuantityText>
2532     </PriceQuote>
2533 </AssignmentInformation>
2534 <ScheduleInformation>
2535     <ScheduleType>BeginAvailable</ScheduleType>
2536     <DateTime>2006-03-31T15:00:00+10:00</DateTime>
2537 </ScheduleInformation>
2538 <ScheduleInformation>
2539     <ScheduleType>ReportTo</ScheduleType>
2540     <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2541     <Location>
2542     <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2543     <rm:Address>
2544     <xal:Country>
2545     <xal:NameElement>Australia</xal:NameElement>
2546     </xal:Country>
2547     <xal:AdministrativeArea>
2548     <xal:NameElement>QLD</xal:NameElement>
2549     </xal:AdministrativeArea>
2550     <xal:Locality>
2551     <xal:NameElement>Innisfail</xal:NameElement>
2552     </xal:Locality>
2553     <xal:Thoroughfare>
2554     <xal:NameElement>Rankin St</xal:NameElement>
2555     <xal:Number>70</xal:Number>
2556     </xal:Thoroughfare>
2557     </rm:Address>
2558     </Location>
2559 </ScheduleInformation>
2560 <ScheduleInformation>
2561     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2562     <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2563 </ScheduleInformation>
2564 </ResourceInformation>
2565 <ResourceInformation>
2566     <ResourceInfoElementID>002</ResourceInfoElementID>
2567     <ResponseInformation>
2568     <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
2569     <rm:ResponseType>Decline</rm:ResponseType>
2570     </ResponseInformation>
2571 </ResourceInformation>
2572 </ResponseToRequestQuote>

```

2573

2574 **3.16 RequestResourceDeploymentStatus Message**

2575 **3.16.1 Overview**

2576 The “RequestResourceDeploymentStatus” message is used to request the current status of one or more
 2577 deployed resources. It can be sent by the Resource Supplier to the Resource Consumer (e.g., to check
 2578 the status of the resource after a “ReleaseResource” message) or by the Resource Consumer to the
 2579 Resource Supplier (e.g., to track the progress of a resource after a “RequisitionResource” message).

2580 **3.16.2 Element Reference Model**

2581 Figure 16 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2582 RequestResourceDeploymentStatus Message. The ERM shows the element-level details for the main
 2583 entities in the RM.

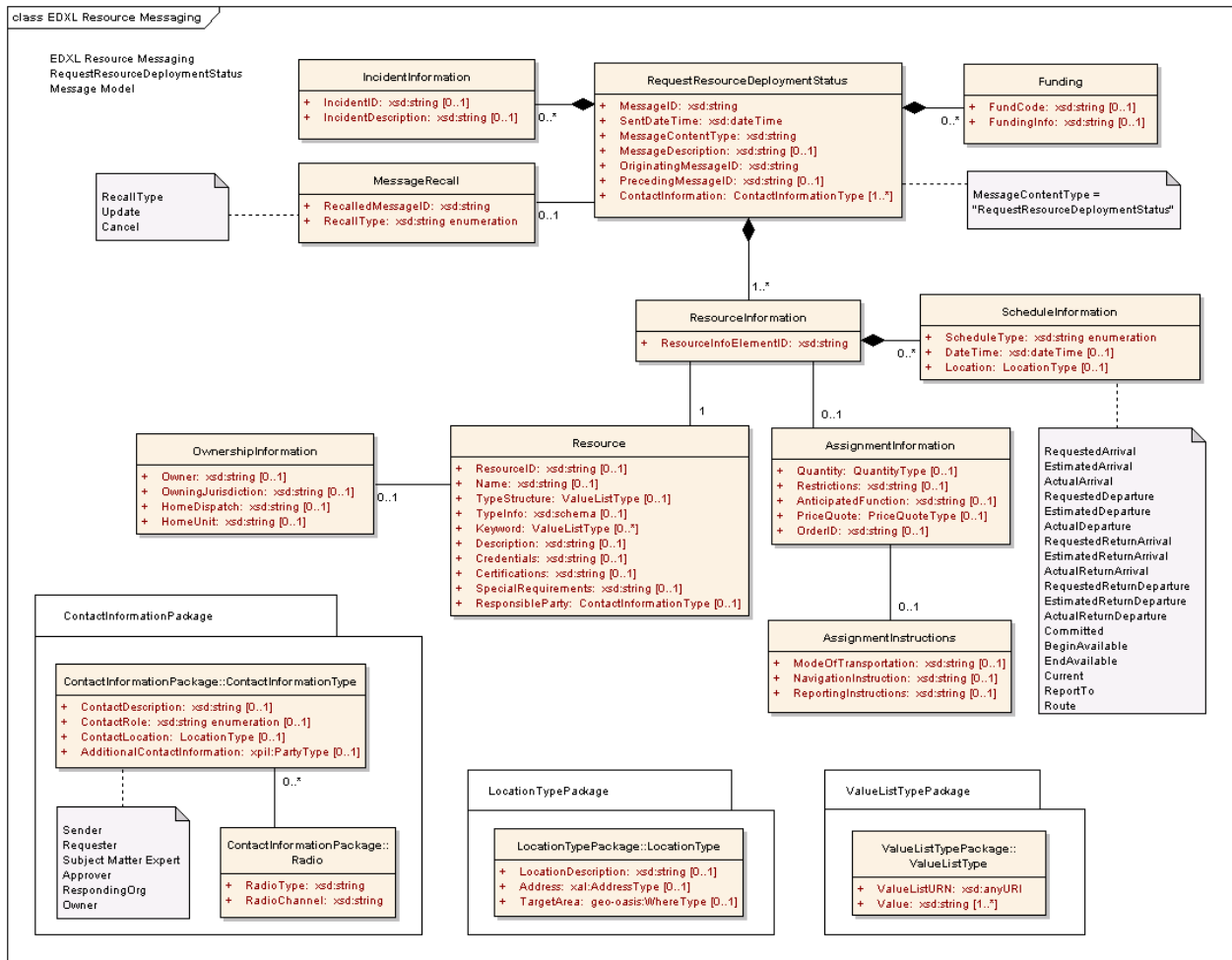


Figure 16: EDXL-RM ERM for RequestResourceDeploymentStatus Message

2584
 2585
 2586
 2587

2588 The following table outlines the element cardinalities for this message type.

2589

2590

Table 16: RequestResourceDeploymentStatus Message Elements

Parent Element	Sub-Elements
RequestResourceDeploymentStatus	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID , PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

2591

2592 3.16.3 RequestResourceDeploymentStatus Message Rules

2593 The following rules apply to the above elements:

- 2594 • The RequestResourceDeploymentStatus:MessageID,
2595 RequestResourceDeploymentStatus:SentDateTime,
2596 RequestResourceDeploymentStatus:MessageContentType,
2597 RequestResourceDeploymentStatus:OriginatingMessageID,
2598 RequestResourceDeploymentStatus:ContactInformation, and
2599 RequestResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2600 • The value of RequestResourceDeploymentStatus:MessageContentType MUST be
2601 "RequestResourceDeploymentStatus".
- 2602 • If a RequestResourceDeploymentStatus:IncidentInformation element is present, then at least one
2603 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2604 be present.
- 2605 • If the RequestResourceDeploymentStatus:MessageRecall element is present, then the
2606 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2607 • If a RequestResourceDeploymentStatus:Funding element is present, then at least one of
2608 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2609 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2610 MUST be present.

- 2611 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2612 MUST be present for each ResourceInformation:Resource element present.
- 2613 • If a Resource:OwnershipInformation element is present, then at least one of
2614 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2615 be present.
- 2616 • If the ResourceInformation:ScheduleInformation element is present, then the
2617 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2618 values:
 - 2619 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2620 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2621 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2622 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
2623 "Current", "ReportTo" or "Route".
- 2624
- 2625 The schema for a RequestResourceDeploymentStatus message can be found in Appendix A.15.

2626 3.16.4 Message Flow

- 2627 The RequestResourceDeploymentStatus message can be sent from the Resource Supplier to the
2628 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2629 resource is requisitioned or committed.
- 2630 The potential responses to this message include:
 - 2631 • ReportResourceDeploymentStatus (See Section 3.17)
 - 2632 • This may include Accept, Decline, and Provisional responses.
- 2633 The message may be canceled or updated through the
2634 RequestResourceDeploymentStatus:MessageRecall element.
- 2635

2636 3.16.5 Message Example

- 2637 Below is an example RequestResourceDeploymentStatus message. This message requests the
2638 deployment status of the "Small Animal Sheltering Team"; it follows on from the example
2639 CommitResource message in Section 3.7.5, and precedes the ReleaseResource message in Section
2640 3.11.5 .
- 2641
- 2642 [Note: The XML example shown in this section is informative only.]

```

2643 <?xml version="1.0" encoding="UTF-8" ?>
2644 <RequestResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2645   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2646     EDXL-RMRequestResourceDeploymentStatus.xsd"
2647   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2648   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2649   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2650   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2651   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2652 <MessageID>urn:au-qld-eoc:997958</MessageID>
2653 <SentDateTime>2006-03-25T09:05:00+10:00</SentDateTime>
2654 <MessageContentType>RequestResourceDeploymentStatus</MessageContentType>
2655 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2656 <IncidentInformation>
2657   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2658 </IncidentInformation>
2659 <ContactInformation>
2660   <rm:ContactRole>Sender</rm:ContactRole>
2661   <rm:AdditionalContactInformation>

```

```

2662     <xpil:PartyName>
2663         <xnl:PersonName>
2664             <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2665             <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2666         </xnl:PersonName>
2667         <xnl:OrganisationName>
2668             <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2669         </xnl:OrganisationName>
2670     </xpil:PartyName>
2671 </rm:AdditionalContactInformation>
2672 </ContactInformation>
2673 <ResourceInformation>
2674     <ResourceInfoElementID>001</ResourceInfoElementID>
2675     <Resource>
2676         <TypeStructure>
2677             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2678             <rm:Value>Small Animal Sheltering Team</rm:Value>
2679         </TypeStructure>
2680     </Resource>
2681 <AssignmentInformation>
2682     <Quantity>
2683         <rm:MeasuredQuantity>
2684             <rm:Amount>1</rm:Amount>
2685         </rm:MeasuredQuantity>
2686     </Quantity>
2687 </AssignmentInformation>
2688 <ScheduleInformation>
2689     <ScheduleType>EstimatedArrival</ScheduleType>
2690     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
2691     <Location>
2692         <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2693     </Location>
2694 </ScheduleInformation>
2695 <ScheduleInformation>
2696     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2697     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
2698 </ScheduleInformation>
2699 <ScheduleInformation>
2700     <ScheduleType>Committed</ScheduleType>
2701     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
2702 </ScheduleInformation>
2703 </ResourceInformation>
2704 </RequestResourceDeploymentStatus>

```

2705

2706 **3.17 ReportResourceDeploymentStatus Message**

2707 **3.17.1 Overview**

2708 The “ReportResourceDeploymentStatus” message is used to report on the current status of any deployed
 2709 resource. The message can be sent from the Resource Supplier to the Resource Consumer, or from the
 2710 Resource Consumer to the Resource Supplier.

2711 **3.17.2 Element Reference Model**

2712 Figure 17 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2713 ReportResourceDeploymentStatus Message. The ERM shows the element-level details for the main
 2714 entities in the RM.

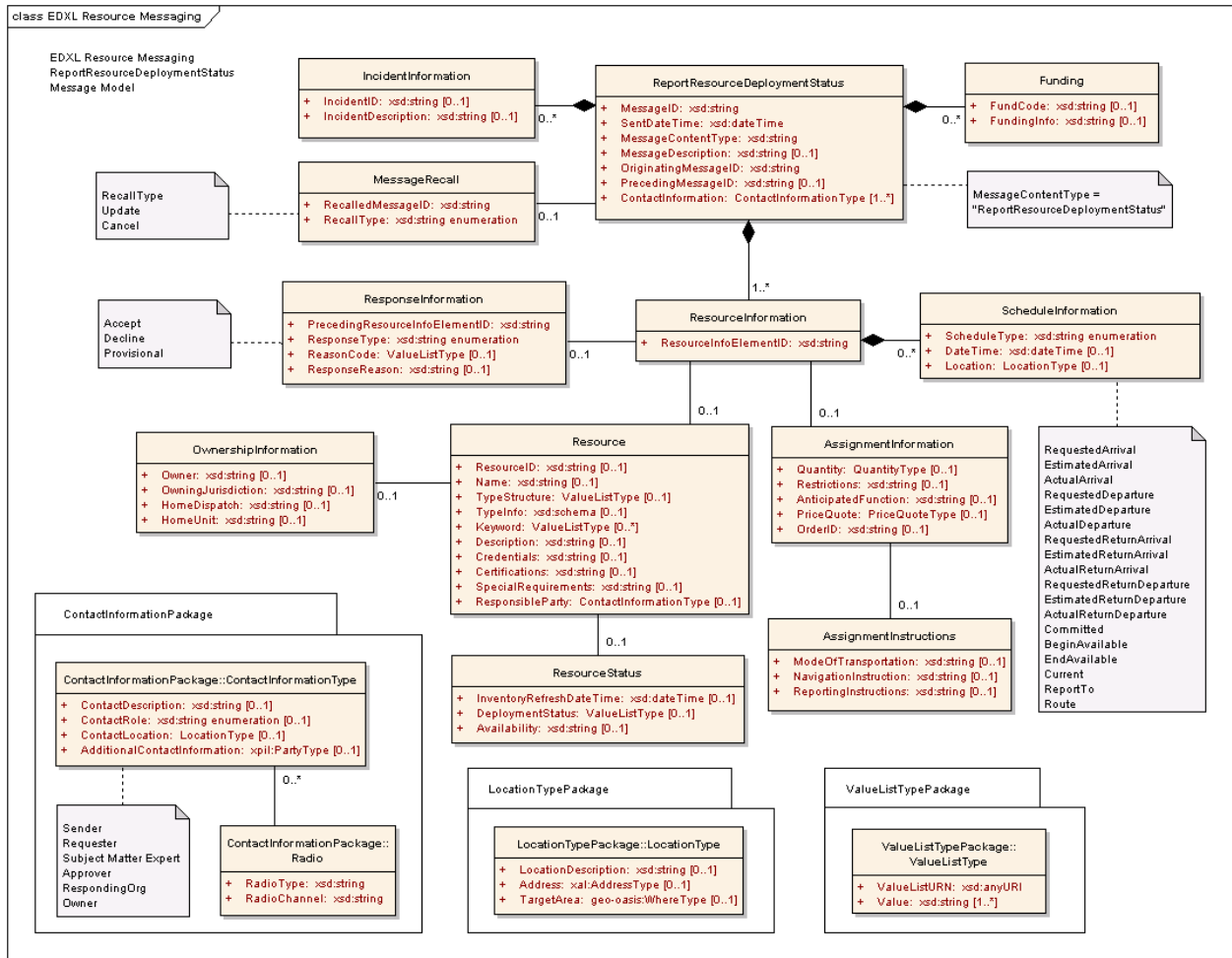


Figure 17: EDXL-RM ERM for ReportResourceDeploymentStatus Message

2715
 2716
 2717
 2718

2719 The following table outlines the element cardinalities for this message type.

2720

2721

Table 17: ReportResourceDeploymentStatus Message Elements

Parent Element	Sub-Elements
ReportResourceDeploymentStatus	MessageID, SentDateTime, MessageContentType^ , MessageDescription, OriginatingMessageID , PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID , ResponseInformation, Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType , ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType^ , DateTime, Location

2722

2723 3.17.3 ReportResourceDeploymentStatus Message Rules

2724 The following rules apply to the above elements:

- 2725 • The ReportResourceDeploymentStatus:MessageID,
2726 ReportResourceDeploymentStatus:SentDateTime,
2727 ReportResourceDeploymentStatus:MessageContentType,
2728 ReportResourceDeploymentStatus:OriginatingMessageID,
2729 ReportResourceDeploymentStatus:ContactInformation, and
2730 ReportResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2731 • The value of ReportResourceDeploymentStatus:MessageContentType MUST be
2732 "ReportResourceDeploymentStatus".
- 2733 • If a ReportResourceDeploymentStatus:IncidentInformation element is present, then at least one
2734 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2735 be present.
- 2736 • If the ReportResourceDeploymentStatus:MessageRecall element is present, then the
2737 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2738 • If a ReportResourceDeploymentStatus:Funding element is present, then at least one of
2739 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2740 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2741 MUST be present.
- 2742 • If the ResourceInformation:ResponseInformation element is present, then the
2743 ResponseInformation:PrecedingResourceInfoElementID and
2744 ResponseInformation:ResponseType elements MUST be present.
- 2745 • If the ResponseInformation:ResponseType element has a value of "Provisional", at least one of
2746 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2747 MUST be present.
- 2748 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2749 MUST be present for each ResourceInformation:Resource element present.
- 2750 • If a Resource:OwnershipInformation element is present, then at least one of
2751 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2752 be present.
- 2753 • If the ResourceInformation:ScheduleInformation element is present, then the
2754 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2755 values:
 - 2756 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2757 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2758 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2759 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
2760 "Current", "ReportTo" or "Route".

2761
2762 The schema for a ReportResourceDeploymentStatus message can be found in Appendix A.16.

2763 3.17.4 Message Flow

2764 The ReportResourceDeploymentStatus message can be sent from the Resource Supplier to the
2765 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2766 resource is requisitioned or committed. The message MAY be sent in response to an earlier
2767 RequestResourceDeploymentStatus message. (See Section 3.16)

2768 The message may be canceled or updated through the EDXLResourceMessage:MessageRecall element.
2769

2770 3.17.5 Message Example

2771 Below is an example ReportResourceDeploymentStatus message. This message shows a possible
2772 response to the RequestResourceDeploymentStatus message in Section 3.16.

2773 [Note: The XML example shown in this section is informative only.]

```
2774 <?xml version="1.0" encoding="UTF-8"?>
2775 <ReportResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2776   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2777     EDXL-RMReportResourceDeploymentStatus.xsd"
2778   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2779   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2780   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2781   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2782   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2783 <MessageID>urn:au-qld-eoc:997967</MessageID>
2784 <SentDateTime>2006-03-25T09:16:00+10:00</SentDateTime>
2785 <MessageContentType>ReportResourceDeploymentStatus</MessageContentType>
2786 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
```

```

2787 <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>
2788 <IncidentInformation>
2789   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2790 </IncidentInformation>
2791 <ContactInformation>
2792   <rm:ContactRole>Sender</rm:ContactRole>
2793   <rm:AdditionalContactInformation>
2794     <xpil:PartyName>
2795       <xnl:PersonName>
2796         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2797         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2798       </xnl:PersonName>
2799       <xnl:OrganisationName>
2800         <xnl:NameElement>EMA</xnl:NameElement>
2801       </xnl:OrganisationName>
2802     </xpil:PartyName>
2803   </rm:AdditionalContactInformation>
2804 </ContactInformation>
2805 <ContactInformation>
2806   <rm:ContactRole>Requester</rm:ContactRole>
2807   <rm:AdditionalContactInformation>
2808     <xpil:PartyName>
2809       <xnl:PersonName>
2810         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2811         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2812       </xnl:PersonName>
2813       <xnl:OrganisationName>
2814         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2815       </xnl:OrganisationName>
2816     </xpil:PartyName>
2817   </rm:AdditionalContactInformation>
2818 </ContactInformation>
2819 <ResourceInformation>
2820   <ResourceInfoElementID>001</ResourceInfoElementID>
2821   <ResponseInformation>
2822     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2823     <rm:ResponseType>Accept</rm:ResponseType>
2824   </ResponseInformation>
2825   <Resource>
2826     <TypeStructure>
2827       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2828       <rm:Value>Small Animal Sheltering Team</rm:Value>
2829     </TypeStructure>
2830     <ResourceStatus>
2831       <DeploymentStatus>
2832         <rm:ValueListURN>urn:x-hazard:vocab:deploymentStatusTypes</rm:ValueListURN>
2833         <rm:Value>In Transit</rm:Value>
2834       </DeploymentStatus>
2835     </ResourceStatus>
2836   </Resource>
2837   <AssignmentInformation>
2838     <Quantity>
2839       <rm:MeasuredQuantity>
2840         <rm:Amount>1</rm:Amount>
2841       </rm:MeasuredQuantity>
2842     </Quantity>
2843   </AssignmentInformation>
2844   <ScheduleInformation>
2845     <ScheduleType>ActualDeparture</ScheduleType>
2846     <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2847     <Location>
2848       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2849     </Location>
2850   </ScheduleInformation>
2851   <ScheduleInformation>
2852     <ScheduleType>ActualArrival</ScheduleType>
2853     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2854     <Location>
2855       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2856     </Location>
2857   </ScheduleInformation>

```

2858
2859
2860
2861
2862
2863
2864
2865
2866

2867

```
<ScheduleInformation>  
  <ScheduleType>EstimatedArrival</ScheduleType>  
  <DateTime>2006-03-25T09:40:00+10:00</DateTime>  
  <Location>  
    <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>  
  </Location>  
</ScheduleInformation>  
</ResourceInformation>  
</ReportResourceDeploymentStatus>
```

2868 **3.18 RequestExtendedDeploymentDuration**

2869 **3.18.1 Overview**

2870 The “RequestExtendedDeploymentDuration” message is sent by the Resource Consumer to the
 2871 Resource Supplier when the Consumer wishes to retain one or more resources longer than previously
 2872 agreed (e.g., in the original RequisitionResource and CommitResource messages).

2873 **3.18.2 Element Reference Model**

2874 Figure 18 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2875 RequestExtendedDeploymentDuration Message. The ERM shows the element-level details for the main
 2876 entities in the RM.

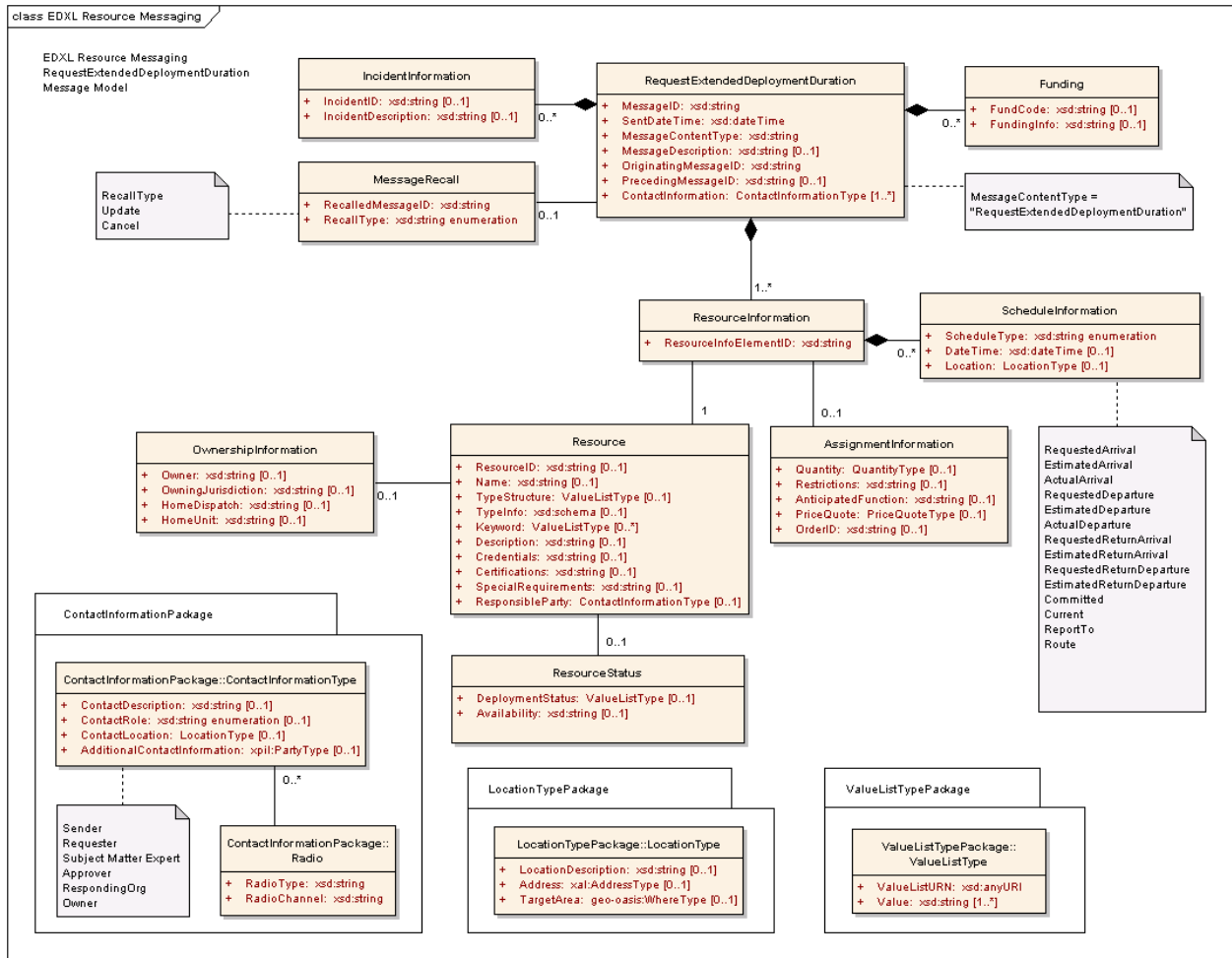


Figure 18: EDXL-RM ERM for RequestExtendedDeploymentDuration Message

2877
 2878
 2879
 2880

2881 The following table outlines the element cardinalities for this message type.

2882

2883

Table 18: RequestExtendedDeploymentDuration Message Elements

Parent Element	Sub-Elements
RequestExtendedDeploymentDuration	MessageID, SentDateTime, MessageContentType^, MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource, AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restriction, AnticipatedFunction, PriceQuote, OrderID
ScheduleInformation	ScheduleType^, DateTime, Location

2884

2885 3.18.3 RequestExtendedDeploymentDuration Message Rules

2886 The following rules apply to the above elements:

- 2887 • The RequestExtendedDeploymentDuration:MessageID,
2888 RequestExtendedDeploymentDuration:SentDateTime,
2889 RequestExtendedDeploymentDuration:MessageContentType,
2890 RequestExtendedDeploymentDuration:OriginatingMessageID,
2891 RequestExtendedDeploymentDuration:ContactInformation, and
2892 RequestExtendedDeploymentDuration:ResourceInformation elements MUST be present.
- 2893 • The value of RequestExtendedDeploymentDuration:MessageContentType MUST be
2894 "RequestExtendedDeploymentDuration".
- 2895 • If a RequestExtendedDeploymentDuration:IncidentInformation element is present, then at least
2896 one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements
2897 MUST be present.
- 2898 • If the RequestExtendedDeploymentDuration:MessageRecall element is present, then the
2899 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2900 • If a RequestExtendedDeploymentDuration:Funding element is present, then at least one of
2901 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2902 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2903 MUST be present.

- 2904 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2905 MUST be present for each ResourceInformation:Resource element present.
- 2906 • If a Resource:OwnershipInformation element is present, then at least one of
2907 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2908 be present.
- 2909 • If a ResourceInformation:ScheduleInformation element is present, then the
2910 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2911 values:
 - 2912 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2913 "EstimatedDeparture", "ActualDeparture", "RequestedReturnArrival",
2914 "EstimatedReturnArrival", "RequestedReturnDeparture", "EstimatedReturnDeparture",
2915 "Committed", "Current", "ReportTo"
2916 or "Route".
- 2917
- 2918 The schema for a RequestExtendedDeploymentDuration message can be found in Appendix A.17.

2919 3.18.4 Message Flow

- 2920 The RequestExtendedDeploymentDuration message is sent from the Resource Consumer to the
2921 Resource Supplier after the Commit Resource message and prior to the Release Resource message.
- 2922 The potential responses to this message include:
- 2923 • ResponseToRequestExtendedDeploymentDuration (See Section 3.19)
 - 2924 • This includes Accept, Decline and Provisional responses.
- 2925 The message may be canceled or updated through the
2926 RequestExtendedDeploymentDuration:MessageRecall element.
- 2927

2928 3.18.5 Message Example

- 2929 Below is an example RequestExtendedDeploymentDuration message. This message follows on from the
2930 CommitResource message in Section 3.7.5 and precedes the RequestReturn and ReleaseResource
2931 messages in Sections 3.12.5 and 3.11.5 respectively.
- 2932
- 2933 [Note: The XML example shown in this section is informative only.]

```

2934 <?xml version="1.0" encoding="UTF-8"?>
2935 <RequestExtendedDeploymentDuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2936   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2937     EDXL-RMRequestExtendedDeploymentDuration.xsd"
2938   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2939   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2940   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2941   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2942   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2943   <MessageID>urn:au-qld-eoc:997814</MessageID>
2944   <SentDateTime>2006-03-22T16:38:00+10:00</SentDateTime>
2945   <MessageContentType>RequestExtendedDeploymentDuration</MessageContentType>
2946   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2947   <IncidentInformation>
2948     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2949   </IncidentInformation>
2950   <ContactInformation>
2951     <rm:ContactRole>Sender</rm:ContactRole>
2952     <rm:AdditionalContactInformation>
2953       <xpil:PartyName>
2954         <xnl:PersonName>

```

```
2955     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2956     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2957     </xnl:PersonName>
2958     <xnl:OrganisationName>
2959     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2960     </xnl:OrganisationName>
2961     </xpil:PartyName>
2962     </rm:AdditionalContactInformation>
2963 </ContactInformation>
2964 <ResourceInformation>
2965     <ResourceInfoElementID>001</ResourceInfoElementID>
2966     <Resource>
2967     <TypeStructure>
2968     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2969     <rm:Value>Small Animal Sheltering Team</rm:Value>
2970     </TypeStructure>
2971     </Resource>
2972     <AssignmentInformation>
2973     <Quantity>
2974     <rm:MeasuredQuantity>
2975     <rm:Amount>1</rm:Amount>
2976     </rm:MeasuredQuantity>
2977     </Quantity>
2978     </AssignmentInformation>
2979     <ScheduleInformation>
2980     <ScheduleType>RequestedReturnArrival</ScheduleType>
2981     <DateTime>2006-04-07T17:00:00+10:00</DateTime>
2982     <Location>
2983     <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2984     </Location>
2985     </ScheduleInformation>
2986     </ResourceInformation>
2987 </RequestExtendedDeploymentDuration>
```

2988

2989

2990 **3.19 ResponseToRequestExtendedDeploymentDuration Message**

2991 **3.19.1 Overview**

2992 The “ResponseToRequestExtendedDeploymentDuration” message is used as the response to a
 2993 “RequestExtendedDeploymentDuration” message. It allows the sender to accept, decline, or offer
 2994 conditions upon which deployment duration of resources may be extended.

2995 **3.19.2 Element Reference Model**

2996 Figure 19 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2997 ResponseToRequestExtendedDeploymentDuration message. The ERM shows the element-level details
 2998 for the main entities in the RM.

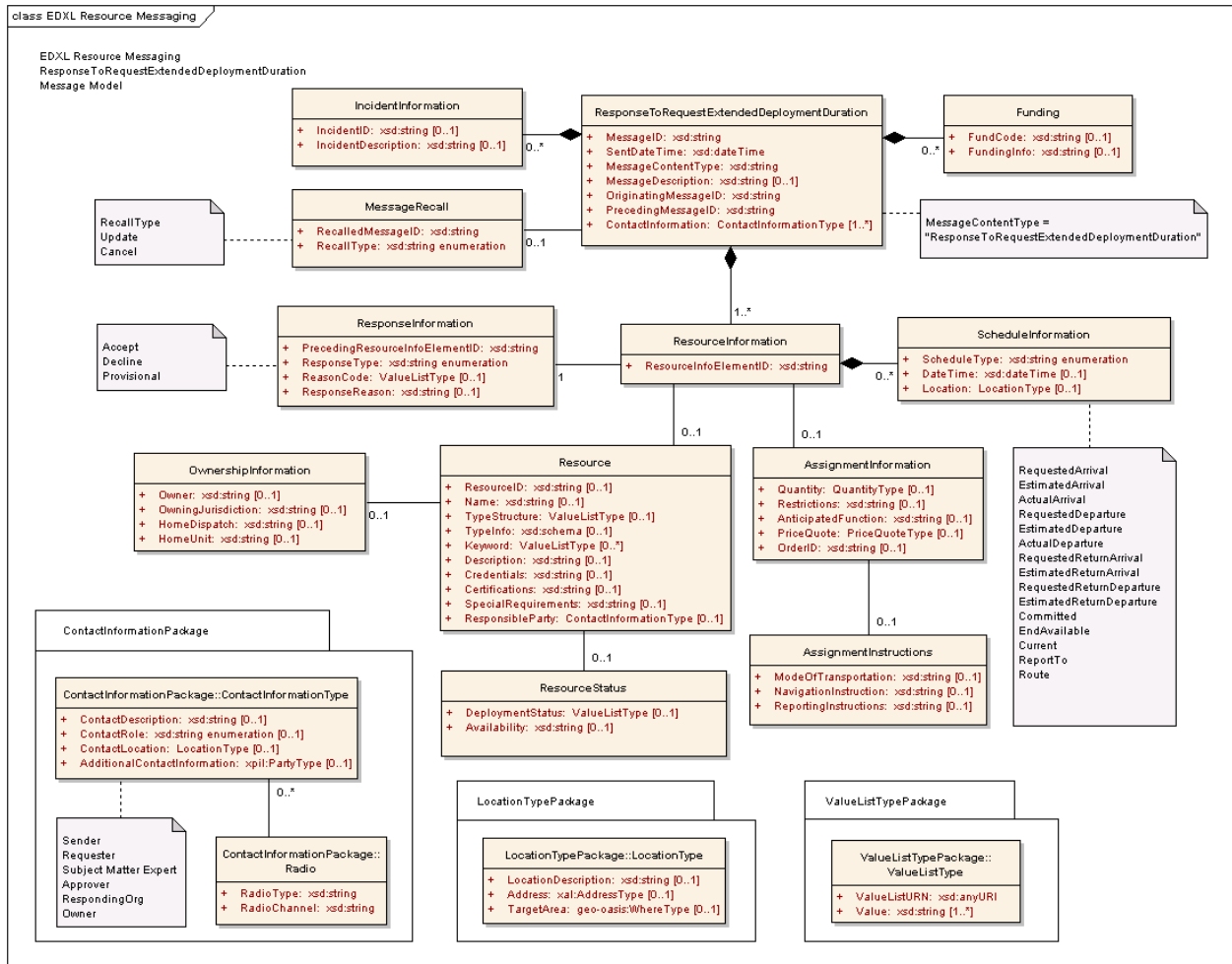


Figure 19: EDXL-RM ERM for ResponseToRequestExtendedDeploymentDuration Message

2999
 3000
 3001
 3002

3003 The following table outlines the element cardinalities for this message type.

3004

3005

Table 19: Response to RequestExtendedDeploymentDuration Message Elements

Parent Element	Sub-Elements
ResponseToRequestExtendedDeploymentDuration	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, ResponseInformation, Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	PrecedingResourceInfoElementID, ResponseType, ReasonCode, ResponseReason
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus</i>
OwnershipInformation	<i>Owner, OwningJurisdiction, HomeDispatch, HomeUnit</i>
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType[^], DateTime, Location

3006

3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules

3008 The following rules apply to the above elements:

- 3009 • The ResponseToRequestExtendedDeploymentDuration:MessageID,
3010 ResponseToRequestExtendedDeploymentDuration:SentDateTime,
3011 ResponseToRequestExtendedDeploymentDuration:MessageContentType,
3012 ResponseToRequestExtendedDeploymentDuration:OriginatingMessageID,
3013 ResponseToRequestExtendedDeploymentDuration:PrecedingMessageID,
3014 ResponseToRequestExtendedDeploymentDuration:ContactInformation, and
3015 ResponseToRequestExtendedDeploymentDuration:ResourceInformation elements MUST be
3016 present.
- 3017 • The value of ResponseToRequestExtendedDeploymentDuration:MessageContentType MUST be
3018 "ResponseToRequestExtendedDeploymentDuration".

- 3019 • If a ResponseToRequestExtendedDeploymentDuration:IncidentInformation element is present,
3020 then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription
3021 elements MUST be present.
- 3022 • If the ResponseToRequestExtendedDeploymentDuration:MessageRecall element is present,
3023 then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be
3024 present.
- 3025 • If a ResponseToRequestExtendedDeploymentDuration:Funding element is present, then at least
3026 one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 3027 • The ResourceInformation:ResourceInfoElementID and
3028 ResourceInformation:ResponseInformation elements MUST be present.
- 3029 • The ResponseInformation:PrecedingResourceInfoElementID and
3030 ResponseInformation:ResponseType elements MUST be present.
- 3031 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
3032 ResourceInformation:Resource element MUST be present. Otherwise, the
3033 ResourceInformation:Resource element is optional.
- 3034 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
3035 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
3036 MUST be present.
- 3037 • If a ResourceInformation:Resource element is present, then at least one of
3038 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
3039 present.
- 3040 • If a Resource:OwnershipInformation element is present, then at least one of
3041 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
3042 be present.
- 3043 • If the ResourceInformation:ScheduleInformation element is present, then the
3044 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
3045 values:
 - 3046 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
3047 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnArrival”,
3048 “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”,
3049 “Committed”, “EndAvailable”, “Current”, “ReportTo” or “Route”.

3050

3051 The schema for a ResponseToRequestExtendedDeploymentDuration message can be found in Appendix
3052 A.18.

3053 **3.19.4 Message Flow**

3054 The ResponseToRequestExtendedDeploymentDuration message is sent from the Resource Supplier to
3055 the Resource Consumer in response to a RequestExtendedDeploymentDuration message.

3056 The message may be canceled or updated through the
3057 ResponseToRequestExtendedDeploymentDuration:MessageRecall element.

3058

3059 **3.19.5 Message Example**

3060 Below is an example ResponseToRequestExtendedDeploymentDuration message. This message follows
3061 on from the example RequestExtendedDeploymentDuration message shown in Section 3.18.5 (declining
3062 the request).

3063

3064 [Note: The XML example shown in this section is informative only.]

```

3065 <?xml version="1.0" encoding="UTF-8"?>
3066 <ResponseToRequestExtendedDeploymentDuration
3067 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3068   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
3069     EDXL-RMResponseToRequestExtendedDeploymentDuration.xsd"
3070   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3071   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3072   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
3073   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
3074   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
3075 <MessageID>urn:au-qld-eoc:997816</MessageID>
3076 <SentDateTime>2006-03-22T17:02:00+10:00</SentDateTime>
3077 <MessageContentType>ResponseToRequestExtendedDeploymentDuration</MessageContentType>
3078 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
3079 <PrecedingMessageID>urn:au-qld-eoc:997814</PrecedingMessageID>
3080 <IncidentInformation>
3081   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
3082 </IncidentInformation>
3083 <ContactInformation>
3084   <rm:ContactRole>Sender</rm:ContactRole>
3085   <rm:AdditionalContactInformation>
3086     <xpil:PartyName>
3087       <xnl:PersonName>
3088         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
3089         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
3090       </xnl:PersonName>
3091       <xnl:OrganisationName>
3092         <xnl:NameElement>EMA</xnl:NameElement>
3093       </xnl:OrganisationName>
3094     </xpil:PartyName>
3095   </rm:AdditionalContactInformation>
3096 </ContactInformation>
3097 <ContactInformation>
3098   <rm:ContactRole>Requester</rm:ContactRole>
3099   <rm:AdditionalContactInformation>
3100     <xpil:PartyName>
3101       <xnl:PersonName>
3102         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
3103         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
3104       </xnl:PersonName>
3105       <xnl:OrganisationName>
3106         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
3107       </xnl:OrganisationName>
3108     </xpil:PartyName>
3109   </rm:AdditionalContactInformation>
3110 </ContactInformation>
3111 <ResourceInformation>
3112   <ResourceInfoElementID>001</ResourceInfoElementID>
3113   <ResponseInformation>
3114     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
3115     <rm:ResponseType>Decline</rm:ResponseType>
3116     <rm:ResponseReason>
3117       Team is already committed elsewhere for the period of 4 to April.
3118     </rm:ResponseReason>
3119   </ResponseInformation>
3120 </Resource>
3121   <TypeStructure>
3122     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
3123     <rm:Value>Small Animal Sheltering Team</rm:Value>
3124   </TypeStructure>
3125 </Resource>
3126 <AssignmentInformation>
3127   <Quantity>
3128     <rm:MeasuredQuantity>
3129       <rm:Amount>1</rm:Amount>
3130     </rm:MeasuredQuantity>
3131   </Quantity>
3132 </AssignmentInformation>
3133 <ScheduleInformation>
3134   <ScheduleType>RequestedReturnArrival</ScheduleType>

```

```
3135     <DateTime>2006-04-07T17:00:00+10:00</DateTime>
3136     <Location>
3137         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
3138     </Location>
3139     </ScheduleInformation>
3140 </ResourceInformation>
3141 </ResponseToRequestExtendedDeploymentDuration>
```

3142

4 Data Dictionary (NORMATIVE)

3143

4.1.1 EDXLResourceMessage ElementReferenceType Type

Element	MessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	Each EDXL resource message contains an identifier that uniquely identifies the resource message.
Comments	<ul style="list-style-type: none"> The EDXL Distribution Element contains the "Distribution ID", which identifies the "container" for the distribution message information.
Requirements Supported	20

3144

Element	SentDateTime
Type	DateTimeType [xsd:dateTime]
Usage	REQUIRED , MUST be used once and only once
Definition	The system stamped date and time the resource message was sent. (1) The date and time is represented in [dateTime] format (e. g., "2002-05-24T16:49:00-07:00" for 24 May 2002 at 16: 49 PDT). (2) 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.
Comments	<ul style="list-style-type: none"> Original requirement = ICS "Request Date/Time"
Requirements Supported	21

3145

Element	MessageContentType
Type	MessageContentTypeType [xsd:string]
Usage	REQUIRED , MUST be used once and only once

Definition	Specifies the purpose / type of resource content / payload being sent within the Resource Messaging – Element Reference Model
Constraints	<ul style="list-style-type: none"> • Value MUST be one of the following: <ol style="list-style-type: none"> 1. RequestResource 2. ResponseToRequestResource 3. RequisitionResource 4. CommitResource 5. RequestInformation 6. ResponseToRequestInformation 7. OfferUnsolicitedResource 8. ReleaseResource 9. RequestReturn 10. ResponseToRequestReturn 11. RequestQuote 12. ResponseToRequestQuote 13. RequestResourceDeploymentStatus 14. ReportResourceDeploymentStatus 15. RequestExtendedDeploymentDuration 16. ResponseToRequestExtendedDeploymentDuration
Requirements Supported	2,3,4,5,6,7,8,9,10,11,12,17

3146

Element	MessageDescription
Type	MessageDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Text field used to specify the information requested in a request for information and the response to a request for information. May also be used to include additional information in other message types.
Constraints	<ul style="list-style-type: none"> • Conditional Usage: <ul style="list-style-type: none"> ○ Required: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ○ Optional: <ul style="list-style-type: none"> ▪ Otherwise
Requirements	20

Supported	
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3147

Element	OriginatingMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	Each EDXL resource message contains a MessageID that uniquely identifies the resource 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 resource management software).
Comments	<ul style="list-style-type: none">• This MessageID is an EDXL-RM MessageID, not an EDXL-Distribution Element MessageID.
Requirements Supported	20

3148

Element	PrecedingMessageID
Type	MessageIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	The PrecedingMessageID identifies the message that immediately preceded the current message in the message sequence. This MessageID is an EDXL-RM MessageID not and EDXL-Distribution Element MessageID.
Constraints	<ul style="list-style-type: none">• Conditional Usage:<ul style="list-style-type: none">○ Required:<ul style="list-style-type: none">▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource"▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource"▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation"▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn"

	<ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequisitionResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "Request Information" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ○ Not Applicable: <ul style="list-style-type: none"> ▪ Otherwise
--	---

3149

Element	ContactInformation
Type	ContactInformationType [XML structure]
Usage	REQUIRED , MUST be used at least once
Definition	The contact associated with the resource message.
Comments	<ul style="list-style-type: none"> • Refer to Section 4.1.13.1 for ContactInformationType • There may be more than one contact given – message sender, requester, subject matter expert, approver, owner, etc.

3150

4.1.2 IncidentInformation Element

Element	IncidentID
Type	IncidentIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	The name or other identifier of the incident to which the current message refers.
Constraints	<ul style="list-style-type: none"> • If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription

	MUST be present
Requirements Supported	19

3151

Element	IncidentDescription
Type	IncidentDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A free form description of the incident to which the current message refers.
Constraints	<ul style="list-style-type: none"> If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present
Requirements Supported	19

3152 4.1.3 MessageRecall Element

Element	RecalledMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once.
Definition	The identifier of the previously sent message that is to be recalled. MessageRecall is used to replace a previously sent message by updating or canceling it.
Comments	<ul style="list-style-type: none"> The MessageRecall element is Optional.
Requirements Supported	14, 15

3153

Element	RecallType
Type	RecallTypeType [xsd:string]
Usage	REQUIRED , MUST be used once and only once.
Definition	Specifies the recall type as either an update or a cancel of the previously sent message. MessageRecall is used to replace a previously sent message which is then

	updated or cancelled.
Constraints	<ul style="list-style-type: none"> ▪ Value MUST be one of the following: <ol style="list-style-type: none"> 1. Update 2. Cancel
Comments	<ul style="list-style-type: none"> • The MessageRecall element is Optional.
Requirements Supported	14,15

3154 **4.1.4 Funding Element**

Element	FundCode
Type	FundCodeType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Identifies the funds that will pay for the resource
Constraints	<ul style="list-style-type: none"> • The Funding element MUST be present in a Requisition Resource message. • If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present
Comments	<ul style="list-style-type: none"> • Identified in support of NIMS Resource Management Guide NIC-GDL0004 • This field may be used as a comma separated list of fund codes (e.g. "HP4347,RT45S")
Requirements Supported	18, 24

3155

Element	FundingInfo
Type	FundingInfoType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Provides additional information on the funds that will pay for the resource
Constraints	<ul style="list-style-type: none"> • A textual description of funding sources or distribution • The Funding element MUST be present in a Requisition Resource message. • If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present

Requirements Supported	18, 24
------------------------	--------

3156 **4.1.5 ResourceInformation Element**

Element	ResourceInfoElementID
Type	ResourceInfoElementIDType[xsd:string]
Usage	REQUIRED , MUST be used once and only once.
Definition	This element identifies the instance of ResourceInformation within the message. It does not identify the Resource.
Comments	<ul style="list-style-type: none"> The purpose of this element is to uniquely identify the ResourceInformation element in future messages that refer to this message. The Resource is identified by a combination of one or more of ResourceID, Name and/or ResourceTypeStructure.

3157 **4.1.6 ResponseInformation Element**

Element	PrecedingResourceInfoElementID
Type	ResourceInfoElementIDType[xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	This element identifies the instance of ResourceInformation within the message specified in the <i>EDXLResourceMessage:PrecedingMessageID</i> element.

3158

Element	ResponseType
Type	ResponseTypeType [xsd:string enumeration]
Usage	REQUIRED , MUST be used once and only once
Definition	Used to accept, decline, or provisionally accept a Request or Unsolicited Offer.
Constraints	<ul style="list-style-type: none"> Value MUST be one of the following: <ol style="list-style-type: none"> Accept Decline Provisional
Comments	<ul style="list-style-type: none"> The "ResponseReason" element is associated with a "Provisional" or

	"Decline" value.
Requirements Supported	6,29

3159

Element	ReasonCode
Type	ValueListType[XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Code from a managed list that offers an explanation for a declined or provisional response to a Request or Unsolicited Offer.
Constraints	<ul style="list-style-type: none"> If the ResponseInformation:ResponseType element has a value of "Provisional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
Requirements Supported	6,29

3160

Element	ResponseReason
Type	ResponseReasonType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Explanation for a declined or provisional response to a Request, Response, Unsolicited Offer, or a Request Return.
Constraints	<ul style="list-style-type: none"> If the ResponseInformation:ResponseType element has a value of "Provisional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation: ResponseReason elements MUST be present.
Requirements Supported	6,29

3161 **4.1.7 Resource Element**

Element	ResourceID
Type	ResourceIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.

Definition	This identifier (if available) is used to identify and track a resource.
Constraints	<ul style="list-style-type: none"> At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.
Requirements Supported	3,16,26

3162

Element	Name
Type	ResourceNameType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A name or title of the resource used for identification and tracking.
Constraints	<ul style="list-style-type: none"> At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.
Requirements Supported	3,16,18,26

3163

Element	TypeStructure
Type	ValueListType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	<p>Uniform Resource Name (URN) paired with a string “keyword” value such as</p> <pre style="border: 1px solid black; padding: 5px;"> <TypeStructure> <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN> <rm:Value>Debris Management Team</rm:Value> </TypeStructure> </pre> <p>for a certified list of resources maintained by the Community of Interest (for the value referenced.)</p>
Constraints	<ul style="list-style-type: none"> At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message for each Resource element present.

Comments	<ul style="list-style-type: none"> Refer to Section 4.1.13.3 for ValueListType
Requirements Supported	3,16,25, 26

3164

Element	TypeInfo
Type	TypeInfoType [sequence of xsd:any]
Usage	OPTIONAL , MAY be used once and only once
Definition	The resource type as defined by either a Keyword structure or a valid schema.
Comments	<ul style="list-style-type: none"> This element contains one or more child elements whose names and types depend on the value of the TypeStructure element.
Requirements Supported	3,16,25,26

3165

Element	Keyword
Type	ValueListType [XML structure]
Usage	OPTIONAL , MAY be used one or more times
Definition	Any value from a discrete managed list, used to specify a keyword.
Comments	<ul style="list-style-type: none"> Allows reference to a separate schema for enumerations. Example: ValueListURN= "http://www.dhs.gov/NiemEquipmentResources" and Value="Portable Radio", or ValueListURN= "http://www.eic.org/Package" and Value="DMAT – burn" A Type Structure is assumed to have an enumerated, allowed list. A Keyword is not restricted to a particular enumeration, a Keyword can be any word or string.
Requirements Supported	3,16,25,26

3166

Element	Description
Type	DescriptionType [xsd:string]

Usage	OPTIONAL , MAY be used once and only once
Definition	Free Text description of resource or resource characteristics, situation requiring resource assistance, or statement of mission the resource satisfies.
Requirements Supported	3,7,16,18,26

3167

Element	Credentials
Type	CredentialsType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Statements of resource qualifications showing that a person or role has a right to exercise official power
Comments	<ul style="list-style-type: none"> Multiple credentials may be included as a comma-separated list. Example 1: "Splinting, bandaging, oxygen administration" Example 2: "A practitioner credentialed by a State to function as an EMT by a State Emergency Medical Services (EMS) system."

3168

Element	Certifications
Type	CertificationsType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Statements of recognition that a resource has met special requirements or qualifications within a field
Comments	<ul style="list-style-type: none"> Multiple certifications may be included as a comma-separated list. Example 1: "ALS; Advanced First Aid & CPR, BLS; Advanced First Aid & CPR" Example 2: "Pilot – Commercial (instrument) or higher certificate and complete unit certification program", "Pilot – Private Pilot (instrument) or higher certificate and complete unit certification program" Example 3: "Trained to the HazMat First Responder Operational Level (NFPA 472); Comply with organization; Operations Level for support personnel as outlined in NFPA 1670"

3169

Element	SpecialRequirements
Type	SpecialRequirementsType [xsd:string]

Usage	OPTIONAL , MAY be used once and only once
Definition	A description of any special needs related to the requested resource (e.g. must carry protective equipment)
Comments	<ul style="list-style-type: none"> • Not intended to carry certifications or capabilities.
Requirements Supported	3,7,16,27

3170

Element	ResponsibleParty
Type	ContactInformationType [XML Structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Contact Info for person currently responsible for resource
Comments	<ul style="list-style-type: none"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" ○ Optional, otherwise
Requirements Supported	3,7,16,27

3171 **4.1.8 OwnershipInformation Element**

Element	Owner
Type	OwnerType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	The name of an agency or supplier that owns the resource (which may not be the home unit or dispatch). Also referred to as home agency.
Constraints	<ul style="list-style-type: none"> ▪ At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.
Requirements	3,16,18

Supported	
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3172

Element	OwningJurisdiction
Type	OwningJurisdictionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	A geopolitical area in which an organization, person, or object has a specific range of authority for specified resources.
Constraints	<ul style="list-style-type: none"> At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.
Comments	<ul style="list-style-type: none"> Can be a code
Requirements Supported	3, 16, 18

3173

Element	HomeDispatch
Type	HomeDispatchType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Resource home agency dispatch center name. This identifies the dispatch unit that has primary responsibility for maintaining information on the resource (e.g., Ft. Collins Dispatch Center, Rocky Mountain Area Coordination Center).
Comments	<ul style="list-style-type: none"> Conditional Usage: <ul style="list-style-type: none"> Not Applicable: <ul style="list-style-type: none"> <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" Optional, otherwise
Requirements Supported	18

3174

Element	HomeUnit
Type	HomeUnitType [xsd:string]

Usage	CONDITIONAL , MAY be used once and only once
Definition	The unit (office, district, organization, etc.) from which the resource typically works or is used (e.g., Manti-LaSalle National Forest/Sanpete District). When released from an assignment, the location to which the resource is released will usually be determined by the home unit.
Comments	<ul style="list-style-type: none"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" ○ Optional, otherwise
Requirements Supported	18

3175 4.1.9 ResourceStatus Element

Element	InventoryRefreshDateTime
Type	DateTimeType[xsd:dateTime]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Date and time that resource inventory counts were last updated
Comments	<ul style="list-style-type: none"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ○ Not Applicable, otherwise
Requirements Supported	2,12

3176

Element	DeploymentStatus
Type	ValueListType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Any value from a discrete managed list, used to specify the general state of a resource if known.
Comments	<ul style="list-style-type: none"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" ○ Not Applicable, otherwise • Allows reference to a separate schema for enumerations. Example: ValueListURN="http://www.dhs.gov/NIMSResourceStatus" and Value="Available". Example values include: <ul style="list-style-type: none"> ○ atBase-Available ○ enroute-Unavailable ○ on-scene-Unavailable ○ returning-Unavailable ○ Resource Maintenance ○ Out of Service

	<ul style="list-style-type: none"> ○ Depleted ○ Available ○ Committed ○ In Transit ○ At incident (ROSS) ○ Assigned ○ In Camp ○ Reassignment ○ Return Transit ○ Returned ○ Demobilized
Requirements Supported	18

3177

Element	Availability
Type	AvailabilityType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Text to describe availability and limitations on availability. Resource availability refers to resource that it is present or ready for immediate use, or otherwise accessible or obtainable, or is qualified or willing to do something or to assume a responsibility.
Comments	<ul style="list-style-type: none"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote"

	<ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" <ul style="list-style-type: none"> ○ Not Applicable, otherwise
Requirements Supported	3,16

3178

3179 4.1.10 AssignmentInformation Element

Element	Quantity
Type	QuantityType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Description of amount of resource needed in both quantity and units of measure (if applicable).
Comments	<ul style="list-style-type: none"> • This element carries quantity information expressed in one of two ways: <ul style="list-style-type: none"> ○ informally, as one or more lines of text (the QuantityText element); or ○ formally, as an element (the MeasuredQuantity element) containing an amount (required) and a unit of measure (optional). <p>The unit of measure is expressed, in turn, as a uniform resource name (ValueListURN) identifying a managed code list of units of measure, paired with a code from that list (identifying a particular unit of measure).</p> <p>The use of the first alternative (the QuantityText element) is not recommended when the second alternative (the MeasuredQuantity element) can be used. For example, in a RequestResource message requesting 10000 liters of water, the second alternative (the MeasuredQuantity element) is the preferred one.</p> <p>A Community of Interest can either use an existing managed code list of units of measure, or define its own code list and use it.</p> <p>One possibility is to use one of the two lists specified in the Unified Code for Units of Measure [UCUM]: case-sensitive codes ("c/s") and case-insensitive codes ("c/i"). It is recommended that the two following URNs be used within EDXL-RM messages to identify those two code lists (respectively):</p> <p style="text-align: center;">urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:cs urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:ci</p>
Constraints	<ul style="list-style-type: none"> • Value MUST be non-negative. • Conditional Usage:

	<ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Accept" ▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Conditional" ▪ EDXLResourceMessage:MessageContentType = "RequisitionResource" ▪ EDXLResourceMessage:MessageContentType = "CommitResource" ▪ EDXLResourceMessage:MessageContentType = "ReleaseResource" ○ Optional, otherwise.
Requirements Supported	3,16,18,26

3180

Element	Restrictions
Type	RestrictionsType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Description of a condition governing the availability of resources. E.g. condition for number of beds available may be "if patients have insurance". This may be thought of as a term/condition or a restriction on availability.
Requirements Supported	28

3181

Element	AnticipatedFunction
Type	AnticipatedFunctionType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Anticipated function, task, job, or role to be provided by the requested resource.
Requirements Supported	18,28

3182

Element	PriceQuote
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Type	PriceQuoteType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Description of quoted cost to acquire desired resource including currency, if the distinction is appropriate.
Comments	<ul style="list-style-type: none"> • This element carries price information expressed in one of two ways: <ul style="list-style-type: none"> ○ informally, as one or more lines of text (element QuantityText); or ○ formally, as an element (element MeasuredQuantity) containing an amount (required) and a unit of measure (optional). <p>The unit of measure is expressed, in turn, as a uniform resource name (ValueListURN) identifying a managed code list of units of measure, paired with a code from that list (identifying a particular unit of measure—usually a currency).</p> <p>The use of the first alternative (the QuantityText element) is not recommended when the second alternative (the MeasuredQuantity element) can be used.</p> <p>A Community of Interest can either use an existing managed code list of units of measure, or define its own code list and use it.</p> <p>Usually, the unit of measure is a currency and the code list consists of the alphabetic currency codes specified in [ISO 4217] and summarized in [ISO 4217 codes]. It is recommended that the following URN be used within EDXL-RM messages to identify the alphabetic currency code list specified in [ISO 4217]:</p> <p style="text-align: center;">urn:oasis:names:tc:emergency:EDXL:RM:1.0:iso4217:a</p> <ul style="list-style-type: none"> • Completed in response to a “RequestQuote” • Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestQuote” ▪ May be indeterminate, i.e. “current market value.” ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestQuote” ○ Optional, otherwise
Requirements Supported	10,30

3183

Element	OrderID
Type	OrderIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once

Definition	Reference to the external system number or ID assigned by the ordering system or personnel meeting the request for resources that has been made.
Comments	<ul style="list-style-type: none"> • There is no assurance of uniqueness between various external systems. • Conditional Usage: <ul style="list-style-type: none"> ○ Optional <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" ○ Not Applicable, otherwise
Requirements Supported	18,30

3184 **4.1.11 AssignmentInstructions Element**

Element	ModeOfTransportation
Type	ModeOfTransportationType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Method or mode used to transport the resource to or from the incident.
Comments	<ul style="list-style-type: none"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> =

	<p style="text-align: center;">“RequestExtendedDeploymentDuration”</p> <ul style="list-style-type: none"> ○ Optional, otherwise
Requirements Supported	18,30

3185

Element	NavigationInstructions
Type	NavigationInstructionsType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Instructions that define how to get to the “ReportTo” location.
Comments	<ul style="list-style-type: none"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration” ○ Optional, otherwise
Requirements Supported	28

3186

Element	ReportingInstructions
Type	ReportingInstructionsType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	A text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role.
Comments	<ul style="list-style-type: none"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration” ○ Optional, otherwise

Requirements Supported	30
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3187 **4.1.12 ScheduleInformation Element**

Element	ScheduleType
Type	ScheduleTypeType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	A scheduled event that occurs at a particular time and/or at a particular location.
Constraints	<ul style="list-style-type: none"> • Value <u>MUST</u> be one of the following: <ol style="list-style-type: none"> 1. RequestedArrival <ul style="list-style-type: none"> ▪ When the resource is needed. Completed for Resource requests, returns, etc. ▪ ICS uses the term "delivery" vs. "arrival". "Arrival" is used here because this applies to Human Resources also 2. EstimatedArrival <ul style="list-style-type: none"> ▪ Date and time the resource is expected to arrive at its "ReportTo" location. 3. ActualArrival <ul style="list-style-type: none"> ▪ Date and time when the resource arrives at its "ReportTo" location. 4. RequestedDeparture <ul style="list-style-type: none"> ▪ Date and time when the resource is requested to Depart from its current location for transit to a "ReportTo" location. 5. EstimatedDeparture <ul style="list-style-type: none"> ▪ Date and time when the resource is estimated to Depart from its current location for transit to a "ReportTo" location. 6. ActualDeparture <ul style="list-style-type: none"> ▪ Date and time when the resource Departs from its current location for transit to a "ReportTo" location. 7. RequestedReturnArrival <ul style="list-style-type: none"> ▪ Date and time the resource is requested to arrive from its deployment at its "OwningJurisdiction". 8. EstimatedReturnArrival <ul style="list-style-type: none"> ▪ Date and time the resource is expected to arrive from its deployment at its "OwningJurisdiction". 9. ActualReturnArrival <ul style="list-style-type: none"> ▪ Date and time the resource arrives from its deployment at its "OwningJurisdiction". 10. RequestedReturnDeparture <ul style="list-style-type: none"> ▪ Date and time the resource is requested to Depart from its deployment

	<p>for transit to its "OwningJurisdiction".</p> <ol style="list-style-type: none"> 11. EstimatedReturnDeparture <ul style="list-style-type: none"> ▪ Date and time the resource is expected to Depart from its deployment for transit to its "OwningJurisdiction". 12. ActualReturnDeparture <ul style="list-style-type: none"> ▪ Date and time the resource Departs from its deployment for transit to its "OwningJurisdiction". 13. Committed <ul style="list-style-type: none"> ▪ Confirmation from Resource Supplier that resource has been allocated to Resource Consumer, usually in response to a "RequisitionResource" message. ▪ May be part of an "OriginatingMessage". 14. BeginAvailable <ul style="list-style-type: none"> ▪ Date and time the resource will become available for allocation. 15. EndAvailable <ul style="list-style-type: none"> ▪ Date and time the resource will cease to be available for deployment. 16. Current <ul style="list-style-type: none"> ▪ Location of resource at date and time of message. 17. ReportTo <ul style="list-style-type: none"> ▪ Location of place where resource is to be delivered. ▪ May include a text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role. 18. Route <ul style="list-style-type: none"> ▪ Information specifying the course of transit of resource from.Resource Supplier to Resource Consumer.
Requirements Supported	2, 11, 12, 28, 30

3188

Element	DateTime
Type	DateTimeType [xsd:dateTime]
Usage	OPTIONAL , MAY be used once and only once
Definition	The date and time that a scheduled event takes place.
Requirements Supported	2, 11, 12, 28, 30

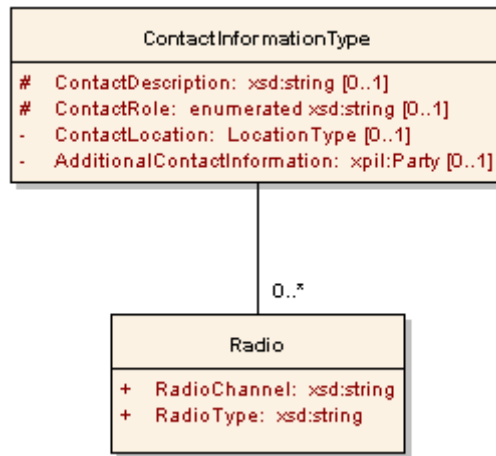
3189

Element	Location
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Type	LocationType [XML structure]
Usage	OPTIONAL , MAY be used once and only once
Definition	The location in which a scheduled event takes place.
Comments	Information on the structure of LocationType can be found in Section 4.1.13.2.

3190 **4.1.13 Supporting Element Types**

3191 **4.1.13.1 ContactInformationType**



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Figure 20: ContactInformationType Structure

Element	ContactDescription
Type	ContactDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Identifying information associated with a contact role related to the resource message.
Constraints	<ul style="list-style-type: none"> If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present.
Comments	<ul style="list-style-type: none"> The ContactDescription element is free text information identifying a contact that acts as an alternative to the ContactRole element for roles that are not covered by the ContactRole enumeration. The identifying information should be as specific as possible but can be suitably flexible (e.g. "Accounts Payable Clerk"). The element contains information associated with the contact role that is easily understood by humans but that is not necessarily usable by automation

	systems.
Requirements Supported	18,23,24

3195

Element	ContactRole
Type	ContactRoleType [xsd:string enumeration]]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Role of the contact associated with the resource message.
Constraints	<ul style="list-style-type: none"> ▪ If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present ▪ Value MUST be one of the following: <ol style="list-style-type: none"> 1. "Sender" (who sent the message) 2. "Requester" (authorization for the message / request) 3. "SubjectMatterExpert" (answer questions or provide details) 4. "Approver" 5. "RespondingOrg" (who responded to the message) 6. "Owner"
Requirements Supported	18,23,24

3196

Element	ContactLocation
Type	LocationType [XML Structure]
Usage	OPTIONAL , MAY be used once and only once.
Definition	The geophysical location of the contact.
Constraints	<ul style="list-style-type: none"> • If a PostalAddress needs to be included, an AdditionalContactInformation element MUST be included, and MUST be placed in the xAL:Address element within the AdditionalContactInformation element.
Comments	<ul style="list-style-type: none"> • Information on the structure of LocationType can be found in Section 4.1.13.2.
Requirements	18,23,24

Supported	
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3197

Element	AdditionalContactInformation
Type	AdditionalContactInformationType [xpil:PartyType]
Usage	OPTIONAL , MAY be used once and only once.
Definition	Any other contact information including name and other Party information.
Comments	<ul style="list-style-type: none"> • The AdditionalContactInformation element is an xpil:PartyType structure that includes an xal:AddressType. • If the optional AdditionalContactInformation element is included, the physical postal address should be included in the AdditionalContactInformation xal:Address element. Otherwise, it may be included in the ContactLocation element. • The CIQ xpil:PartyType can specify person name, Organization name, contact phone numbers, email addresses, street addresses, etc. suitable for use in any country. This is the element that should be used to capture most of the contact information. • Example: <pre> <rm:AdditionalContactInformation> <xnl:PartyName> <xnl:PersonName> <xnl:NameElement xnl:ElementType="FirstName">Joe </xnl:NameElement> <xnl:NameElement xnl:ElementType="LastName">Williams </xnl:NameElement> </xnl:PersonName> <xnl:OrganizationName> <xnl:NameElement>Hardware Megastore Cairns </xnl:NameElement> </xnl:OrganizationName> </xnl:PartyName> <xpil:Addresses> <xal:Address> <xal:Country> <xal:Name>Australia</xal:Name> </xal:Country> <xal:AdministrativeArea> <xal:Name>QLD</xal:Name> </xal:AdministrativeArea> <xal:Locality> <xal:Name>Cairns</xal:Name> </xal:Locality> <xal:Thoroughfare> <xal:NameElement>Spence St</xal:NameElement> </xal:Thoroughfare> <xal:PostCode> <xal:Identifier>4870</xal:Identifier> </xal:PostCode> </xal:Address> </xpil:Addresses> <xpil:ContactNumbers> <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="8:00AM - 6:00PM"> <xpil:ContactNumberElement xpil:ElementType="CountryCode">61 </pre>

	<pre> </xpil:ContactNumberElement> <xpil:ContactNumberElement xpil:ElementType="AreaCode">7 </xpil:ContactNumberElement> <xpil:ContactNumberElement xpil:ElementType="LocalNumber">4052 0378 </xpil:ContactNumberElement> </xpil:ContactNumber> </xpil:ContactNumbers> </rm:AdditionalContactInformation> </pre>
Requirements Supported	18,23,24

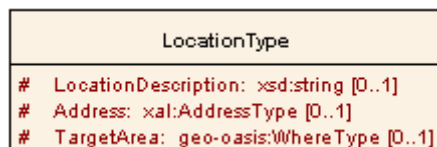
3198 **4.1.13.1.1 Radio Element**

Element	RadioType
Type	RadioTypeType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	Contact radio type of the person or organization referred to in ContactRole
Requirements Supported	18,23

3199

Element	RadioChannel
Type	RadioChannelType [xsd:string]]
Usage	REQUIRED , MUST be used once and only once
Definition	Contact radio channel of the person or organization referred to in ContactRole
Comments	<ul style="list-style-type: none"> • “Channel” and “Frequency” are synonyms for purposes of this standard
Requirements Supported	18,23

3200 **4.1.13.2 LocationType**



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Figure 21: LocationType Structure

Element	LocationDescription
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Type	LocationDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A free-form textual description of a location.
Constraints	<ul style="list-style-type: none"> At least one of the LocationDescription, Address or TargetArea elements MUST be present.

3203

Element	Address
Type	xal:AddressType
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A CIQ structure containing address details in an internationally-applicable format (See Section 1.5)
Constraints	<ul style="list-style-type: none"> At least one of the Description, Address or TargetArea elements MUST be present. An example of a CIQ AddressType can be found in section 3.10.5

3204

Element	TargetArea
Type	geo-oasis:WhereType
Usage	CONDITIONAL , MAY be used once and only once.
Definition	The container element for GML-based geospatial information. This element uses the EDXL-HAVE geo-oasis schema. It allows the target Area to be defined by a choice that includes:
Constraints	<ul style="list-style-type: none"> At least one of the LocationDescription, Address or TargetArea elements MUST be present.
Comments	<ul style="list-style-type: none"> More detailed definitions for geo-oasis:WhereType and its components can be found in the geo-oasis schema. Specific usage of those types for EDXL-RM are found in section 4.1.13.2.1.

3205 **4.1.13.2.1 Imported Type Definitions**

Type	geo-oasis:WhereType
Usage	Used for as the type value for TargetArea elements

Definition	<p>WhereType provides a mechanism for defining location. This element uses the EDXL-HAVE geo-oasis schema. It allows the target Area to be defined as a choice of one of the following:</p> <ul style="list-style-type: none"> • gml:Point – WGS84 latitude and longitude • gml:LineString – a series of points • gml:CircleByCenterPoint – a point and radius • gml:Polygon – a set of connected non-crossing lines • gml:Envelope – two points used to define a bounding rectangle <p>It also allows the use of a set of attributes (geo-oasis:whereAttrGroup) defined for "WhereType." More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema</p>
Comments	<ul style="list-style-type: none"> • EDXL-RM uses the geo-oasis schema that is specified as an element of EDXL-HAVE, Both EDXL-RM and EDXL-HAVE require the use of the WGS84 coordinate reference system.

3206

Type	geo-oasis:WhereType using gml:Point
Usage	Where TargetAreaType is best represented as a WGS84 point.
Definition	<p>The use of gml:Point within TargetArea provides location using a specific WGS84 point value that is compatible with GML compliant geospatial information systems. The following example applies:</p> <pre> <gml:Point> <gml:pos>45.256 -71.92</gml:pos> </gml:Point> </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> • WGS84 MUST be used for EDXL-RM.
Requirements Supported	

3207

Type	geo-oasis:WhereType using gml:LineString
Usage	Where TargetAreaType is best represented as a route along a series of WGS84 points.
Definition	<p>The use of gml:LineString within TargetArea provides location along a line represented by a specific list of WGS84 point values that is compatible with GML compliant geospatial information systems. The following example applies:</p>

	<pre> <gml:LineString> <gml:posList> 45.256 -110.45 46.46 -109.48 43.84 -109.86 </gml:posList> </gml:LineString> </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> WGS84 MUST be used for EDXL-RM.
Requirements Supported	

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Type	geo-oasis:WhereType using gml:CircleByCenterPoint
Usage	Where TargetAreaType is best represented circular area of a given radius in kilometers around a center point represented in WGS84.
Definition	<p>The use of gml:CircleByCenterPoint within TargetArea provides location as a circle centered on a WGS84 referenced point with a radius defined in kilometers. The following example applies:</p> <pre> <gml:CircleByCenterPoint> <gml:pos> 45.256 -110.45 </gml:pos> <gml:radius> 10 </gml:radius> </gml:CircleByCenterPoint> </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> WGS84 MUST be used for EDXL-RM. For EDXL-RM the unit of measure MUST be kilometers.

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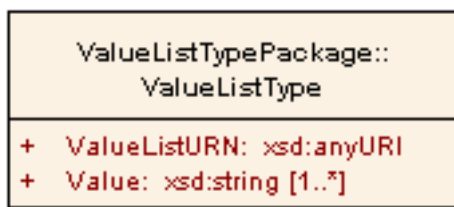
Type	geo-oasis:WhereType using gml:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Polygon within TargetArea provides a ring of points (first and last point are the same) represented by a specific list of WGS84 point values that is compatible with GML compliant geospatial information systems. The following example applies:</p>

	<pre> <gml:Polygon> <gml:exterior> <gml:LinearRing> <gml:posList> 45.256 -110.45 46.46 -109.48 43.84 -109.86 45.256 -110.45 </gml:posList> </gml:LinearRing> </gml:exterior> </gml:Polygon> </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> ▪ WGS84 MUST be used for EDXL-RM. ▪ For EDXL-RM gml:posList layout MUST be used.
Requirements Supported	

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Type	geo-oasis:WhereType using gml:Envelope
Usage	Where TargetAreaType is best represented as a rectangular area of interest often known as a “bounding box” of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Envelope within TargetArea provides two WGS 84 point representations, the first representing a lower corner of the box and the second representing an upper corner. The following example applies:</p> <pre> <gml:Envelope> <gml:lowerCorner>42.943 -71.032</gml:lowerCorner> <gml:upperCorner>43.039 -69.856</gml:upperCorner> </gml:Envelope> </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> • WGS84 MUST be used for EDXL-RM.

3211 **4.1.13.3 ValueListType**



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Figure 22: ValueListType Structure

Element	ValueListURN
Type	ValueListURNTYPE[xsd:anyURI]
sage	REQUIRED , MUST be used once and only once
Definition	The name of the certified list maintained by the Community of Interest for the value referenced.
Requirements Supported	25,26

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Element	Value
Type	ValueType [xsd:string]
Usage	REQUIRED , MUST be used one to many
Definition	A value from the certified list maintained by the Community of Interest.

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5 Conformance

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5.1 Conformance Targets

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

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- EDXL-RM Message; and

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- EDXL-RM Message Producer.

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

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NOTE There is no conformance target corresponding to the consumers of EDXL-RM messages. All the existing requirements for the consumption of an incoming EDXL-RM message are, in fact, requirements on the type and content of the EDXL-RM message that is produced by the consumer in reply to that message (if any). Therefore, a conforming EDXL-RM Message Producer (as defined in Section 5.4) will necessarily meet all the existing requirements for the production as well as for the consumption of EDXL-RM messages.

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5.2 Conformance Levels

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The two following conformance levels are defined for EDXL-RM Messages:

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- Level-1 EDXL-RM Message; and

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- Level-2 EDXL-RM Message.

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NOTE The conformance requirements for Level-1 and Level-2 EDXL-RM Messages are given in Section 5.3, and summarized here. A Level-1 EDXL-RM Message is either one of the 16 resource message elements specified in sections 3.4 to 3.19, or a different element (with a different namespace name and an arbitrary local name) whose type is the complex type “EDXLResourceMessageReferenceType” specified in Section 4.1.1. A Level-2 EDXL-RM Message is restricted to be one of the 16 resource message elements specified in sections 3.4 to 3.19. Every Level-2 EDXL-RM Message is also a conforming Level-1 EDXL-RM Message.

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The two following conformance levels are defined for EDXL-RM Message Producers:

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- Level-1 EDXL-RM Message Producer; and

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- Level-2 EDXL-RM Message Producer.

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NOTE The conformance requirements for Level-1 and Level-2 EDXL-RM Message Producers are given in Section 5.4, and summarized here. A Level-1 EDXL-RM Message Producer is a software entity that produces conforming (Level-1) EDXL-RM Messages whenever a (Level-1) EDXL-RM Message is expected. A Level-2 EDXL-RM Message Producer is a software entity that only produces Level-2 EDXL-RM Messages whenever a Level-2 EDXL-RM Message is expected. Every Level-2 EDXL-RM Message Producer is also a conforming Level-1 EDXL-RM Message Producer.

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3254 **5.3 Conformance as an EDXL-RM Message**

3255 **5.3.1 Level-1 EDXL-RM Message**

3256 An XML 1.0 element is a conforming Level-1 EDXL-RM Message if and only if:

- 3257 a) it meets the general requirements specified in Section 3.3;
- 3258
- 3259 b) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its local name
- 3260 is one of the 16 resource message type names specified in sections 3.4 to 3.19 (also listed in
- 3261 Table 1), and the element is valid according to the schema located at
- 3262 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where validation is
- 3263 performed against the global element declaration with the same local name;
- 3264
- 3265 c) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then the
- 3266 element is valid according to the schema located at
- 3267 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where validation is
- 3268 performed against the complex type definition "EDXLResourceMessageReferenceType";
- 3269
- 3270 d) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3271 (which includes the content of each of its descendants) meets all the additional mandatory
- 3272 requirements provided in the specific subsection of Section 3 (sections 3.4 to 3.19) corresponding
- 3273 to the element's name, *with the exception of the Message Flow*; such requirements include:
- 3274
- 3275 • the content of the Element Reference Model;
 - 3276 • each of the Message Rules; and
 - 3277 • the normative parts (element name, usage, and constraints) of any dictionary data entries
- 3278 (in Section ~~4~~**Error! Reference source not found.**) corresponding to the elements that
- 3279 actually occur in the content of the element;
- 3280
- 3281 e) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3282 (which includes the content of each of its descendants) meets all the additional mandatory
- 3283 requirements provided in the normative parts (element name, usage, and constraints) of all the
- 3284 dictionary data entries (in Section 4) corresponding to the elements that actually occur in the
- 3285 content of the element.

3286 NOTE The Information Exchange Package Documentation (IEPD) process, specified

3287 within the United States National Information Exchange Model (available on

3288 www.niem.gov), can be used by a Community of Interest when specifying new types of

3289 resource messages conforming to Level 1.

3290

3291 **5.3.2 Level-2 EDXL-RM Message**

3292 An XML 1.0 element is a conforming Level-2 EDXL-RM Message if and only if:

- 3293 a) it meets all the requirements for a Level-1 EDXL-RM Message specified in Section 5.3.1; and
- 3294
- 3295 b) its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"; and
- 3296
- 3297 c) its content meets all the requirements provided in the specific subsection of Section 3 (sections
- 3298 ~~3.4~~**Error! Reference source not found.** to ~~3.19~~**Error! Reference source not found.**)
- 3299 corresponding to the element's name (see also Section 5.3.1item (d)), *including the Message*
- 3300 *Flow*.

3301 NOTE The conditions in (a) and (b) above imply that the local name of the element is
3302 one of the 16 resource message type names specified in sections 3.4 to 3.19 (see
3303 Section 5.3.1 item (b)).

3304 5.4 Conformance as an EDXL-RM Message Producer

3305 5.4.1 Level-1 EDXL-RM Message Producer

3306 A software entity is a conforming Level-1 EDXL-RM Message Producer if and only if it is constructed in
3307 such a way that any XML 1.0 element produced by it and present in a place in which a conforming Level-
3308 1 EDXL-RM message is expected (based on contextual information) is indeed a conforming Level-1
3309 EDXL-RM message according to this standard.

3310 NOTE The condition above can be satisfied in many different ways. Here are some
3311 examples of possible scenarios:

- 3312 – a standard distribution protocol (say, EDXL-DE) transfers EDXL-RM messages; a resource
3313 consumer has sent an EDXL-RM request message to a resource supplier which claims to be
3314 a conforming EDXL-RM Message Producer, and has received an EDXL-DE message which
3315 is therefore expected to carry a conforming EDXL-RM Message;
- 3316 – a local test environment has been set up, and the application under test (which claims to be a
3317 conforming EDXL-RM Message Producer) has the ability to produce an EDXL-RM message
3318 and write it to a file in a directory in response to a request coming from the testing tool; the
3319 testing tool has sent many requests to the application under test and is now verifying all the
3320 files present in the directory, which is expected to contain only conforming EDXL-
3321 RM Messages.

3322 5.4.2 Level-2 EDXL-RM Message Producer

3323 A software entity is a conforming Level-2 EDXL-RM Message Producer if and only if:

- 3324 a) it meets all the requirements for a Level-1 EDXL-RM Producer Message specified in Section
3325 5.4.1; and
- 3326 b) it produces a conforming Level-2 EDXL-RM Message when such a message is expected.

3327 NOTE There is no requirement for a Level-2 EDXL-RM Message Producer to be able to
3328 produce resource messages of all 16 resource message types specified in sections
3329 [3.4](#)**Error! Reference source not found.** to [3.19](#)**Error! Reference source not found.**

3330

A. XML Schema for the EDXL Resource Messaging (NORMATIVE)

3331

3332 Schemas included in Appendix A are for reference only. The normative schemas can be found at

3333 <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/schemas/>.3334

A.1 Resource Messaging Common Types

```

3335 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3336           xmlns:xnal="urn:oasis:names:tc:ciq:xnal:3"
3337           xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
3338           xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
3339           xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
3340           xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3341           xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3342           targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3343           elementFormDefault="qualified"
3344           attributeFormDefault="unqualified">
3345
3346   <!-- All elements that have unchanged internal content across the entire matrix of
3347        RM messages are typed here.
3348        Where internal content differs between messages, please see the appropriate
3349        schemas. -->
3350   <xsd:import namespace="urn:oasis:names:tc:ciq:xpil:3" schemaLocation="xpil.xsd"/>
3351   <xsd:import namespace="urn:oasis:names:tc:ciq:xal:3" schemaLocation="xal.xsd"/>
3352   <xsd:import namespace="urn:oasis:names:tc:ciq:xnl:3" schemaLocation="xnl.xsd"/>
3353
3354   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3355             schemaLocation="geo-oasis.xsd"/>
3356   <xsd:simpleType name="MessageIDType">
3357     <xsd:restriction base="xsd:string"/>
3358   </xsd:simpleType>
3359   <xsd:simpleType name="DateTimeType">
3360     <xsd:restriction base="xsd:dateTime"/>
3361   </xsd:simpleType>
3362   <xsd:simpleType name="MessageContentTypeType">
3363     <xsd:restriction base="xsd:string">
3364       <xsd:annotation>
3365         <xsd:documentation>
3366           The following strings values for MessageContentType
3367           are reserved for Level 2 Conformant Message types (New
3368           level 1 conformant messagetypes should use other name strings):
3369
3370           RequestResource
3371           ResponseToRequestResource
3372           RequisitionResource
3373           CommitResource
3374           RequestInformation
3375           ResponseToRequestInformation
3376           OfferUnsolicitedResource
3377           ReleaseResource
3378           RequestReturn
3379           ResponseToRequestReturn
3380           RequestQuote
3381           ResponseToRequestQuote
3382           RequestResourceDeploymentStatus
3383           ReportResourceDeploymentStatus
3384           RequestExtendedDeploymentDuration
3385           ResponseToRequestExtendedDeploymentDuration
3386         </xsd:documentation>
3387       </xsd:annotation>
3388     </xsd:restriction>
3389   </xsd:simpleType>
3390

```



```

3391 <xsd:simpleType name="MessageDescriptionType">
3392   <xsd:restriction base="xsd:string"/>
3393 </xsd:simpleType>
3394 <xsd:complexType name="IncidentInformationType">
3395   <!-- One(or both) of the IncidentID and IncidentDescription elements is required -->
3396   <xsd:sequence>
3397     <xsd:element name="IncidentID" type="IncidentIDType" minOccurs="0"/>
3398     <xsd:element name="IncidentDescription" type="IncidentDescriptionType"
3399       minOccurs="0"/>
3400   </xsd:sequence>
3401 </xsd:complexType>
3402 <xsd:simpleType name="IncidentIDType">
3403   <xsd:restriction base="xsd:string"/>
3404 </xsd:simpleType>
3405 <xsd:simpleType name="IncidentDescriptionType">
3406   <xsd:restriction base="xsd:string"/>
3407 </xsd:simpleType>
3408 <xsd:complexType name="MessageRecallType">
3409   <xsd:sequence>
3410     <xsd:element name="RecallMessageID" type="MessageIDType"/>
3411     <xsd:element name="RecallType" type="RecallTypeType"/>
3412   </xsd:sequence>
3413 </xsd:complexType>
3414 <xsd:simpleType name="RecallTypeType">
3415   <xsd:restriction base="xsd:string">
3416     <xsd:enumeration value="Update"/>
3417     <xsd:enumeration value="Cancel"/>
3418   </xsd:restriction>
3419 </xsd:simpleType>
3420 <xsd:complexType name="FundingType">
3421   <!-- One (or both) of the FundCode and FundingInfo elements is required -->
3422   <xsd:sequence>
3423     <xsd:element name="FundCode" type="FundCodeType" minOccurs="0" maxOccurs="1"/>
3424     <xsd:element name="FundingInfo" type="FundingInfoType" minOccurs="0"
3425       maxOccurs="1"/>
3426   </xsd:sequence>
3427 </xsd:complexType>
3428 <xsd:simpleType name="FundCodeType">
3429   <xsd:restriction base="xsd:string"/>
3430 </xsd:simpleType>
3431 <xsd:simpleType name="FundingInfoType">
3432   <xsd:restriction base="xsd:string"/>
3433 </xsd:simpleType>
3434 <xsd:complexType name="ContactInformationType">
3435   <xsd:sequence>
3436     <!-- At least one of ContactDescription and ContextRole is required -->
3437     <xsd:element name="ContactDescription" type="ContactDescriptionType" minOccurs="0"
3438       maxOccurs="1"/>
3439     <xsd:element name="ContactRole" type="ContactRoleType" minOccurs="0"
3440       maxOccurs="1"/>
3441     <xsd:element name="Radio" type="RadioInformationType" minOccurs="0"
3442       maxOccurs="unbounded"/>
3443     <xsd:element name="ContactLocation" type="LocationType" minOccurs="0"
3444       maxOccurs="1"/>
3445     <xsd:element name="AdditionalContactInformation" type="xpil:PartyType"
3446       minOccurs="0" maxOccurs="1"/>
3447   </xsd:sequence>
3448 </xsd:complexType>
3449 <xsd:simpleType name="ContactDescriptionType">
3450   <xsd:restriction base="xsd:string"/>
3451 </xsd:simpleType>
3452 <xsd:simpleType name="ContactRoleType">
3453   <xsd:restriction base="xsd:string">
3454     <xsd:enumeration value="Sender"/>
3455     <xsd:enumeration value="Requester"/>
3456     <xsd:enumeration value="SubjectMatterExpert"/>
3457     <xsd:enumeration value="Approver"/>
3458     <xsd:enumeration value="RespondingOrg"/>
3459     <xsd:enumeration value="Owner"/>
3460   </xsd:restriction>

```

```

3461 </xsd:simpleType>
3462 <xsd:complexType name="RadioInformationType">
3463   <xsd:sequence>
3464     <xsd:element name="RadioType" type="ValueListType"/>
3465     <xsd:element name="RadioChannel" type="RadioChannelType"/>
3466   </xsd:sequence>
3467 </xsd:complexType>
3468 <xsd:simpleType name="RadioTypeType">
3469   <xsd:restriction base="xsd:string"/>
3470 </xsd:simpleType>
3471 <xsd:simpleType name="RadioChannelType">
3472   <xsd:restriction base="xsd:string"/>
3473 </xsd:simpleType>
3474 <xsd:complexType name="ResponseInformationType">
3475   <xsd:sequence>
3476     <xsd:element name="PrecedingResourceInfoElementID"
3477       type="ResourceInfoElementIDType"/>
3478     <xsd:element name="ResponseType" type="ResponseTypeType"/>
3479     <!-- If the ResponseType element has the value "Provisional", one (or both) of
3480       ReasonCode and ResponseReason must be present -->
3481     <xsd:element name="ReasonCode" type="ValueListType" minOccurs="0" maxOccurs="1"/>
3482     <xsd:element name="ResponseReason" type="ResponseReasonType" minOccurs="0"
3483       maxOccurs="1"/>
3484   </xsd:sequence>
3485 </xsd:complexType>
3486 <xsd:simpleType name="ResourceInfoElementIDType">
3487   <xsd:restriction base="xsd:string"/>
3488 </xsd:simpleType>
3489 <xsd:simpleType name="ResponseTypeType">
3490   <xsd:restriction base="xsd:string">
3491     <xsd:enumeration value="Accept"/>
3492     <xsd:enumeration value="Decline"/>
3493     <xsd:enumeration value="Provisional"/>
3494   </xsd:restriction>
3495 </xsd:simpleType>
3496 <xsd:simpleType name="ResponseReasonType">
3497   <xsd:restriction base="xsd:string"/>
3498 </xsd:simpleType>
3499 <xsd:simpleType name="ResourceIDType">
3500   <xsd:restriction base="xsd:string"/>
3501 </xsd:simpleType>
3502 <xsd:simpleType name="ResourceNameType">
3503   <xsd:restriction base="xsd:string"/>
3504 </xsd:simpleType>
3505 <xsd:complexType name="TypeInfoType">
3506   <xsd:sequence>
3507     <xsd:any processContents="skip" maxOccurs="unbounded"/>
3508   </xsd:sequence>
3509   <xsd:anyAttribute/>
3510 </xsd:complexType>
3511 <xsd:simpleType name="DescriptionType">
3512   <xsd:restriction base="xsd:string"/>
3513 </xsd:simpleType>
3514 <xsd:simpleType name="CredentialsType">
3515   <xsd:restriction base="xsd:string"/>
3516 </xsd:simpleType>
3517 <xsd:simpleType name="CertificationsType">
3518   <xsd:restriction base="xsd:string"/>
3519 </xsd:simpleType>
3520 <xsd:simpleType name="SpecialRequirementsType">
3521   <xsd:restriction base="xsd:string"/>
3522 </xsd:simpleType>
3523 <xsd:complexType name="OwnershipInformationType">
3524   <!-- One (or both) of the Owner and OwningJurisdiction elements is required -->
3525   <xsd:sequence>
3526     <xsd:element name="Owner" type="OwnerType" minOccurs="0" maxOccurs="1"/>
3527     <xsd:element name="OwningJurisdiction" type="OwningJurisdictionType" minOccurs="0"
3528       maxOccurs="1"/>
3529     <xsd:element name="HomeDispatch" type="HomeDispatchType" minOccurs="0"
3530       maxOccurs="1"/>
3531     <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0" maxOccurs="1"/>

```

```

3532     </xsd:sequence>
3533 </xsd:complexType>
3534 <xsd:simpleType name="OwnerType">
3535   <xsd:restriction base="xsd:string"/>
3536 </xsd:simpleType>
3537 <xsd:simpleType name="OwningJurisdictionType">
3538   <xsd:restriction base="xsd:string"/>
3539 </xsd:simpleType>
3540 <xsd:simpleType name="HomeDispatchType">
3541   <xsd:restriction base="xsd:string"/>
3542 </xsd:simpleType>
3543 <xsd:simpleType name="HomeUnitType">
3544   <xsd:restriction base="xsd:string"/>
3545 </xsd:simpleType>
3546 <xsd:simpleType name="AvailabilityType">
3547   <xsd:restriction base="xsd:string"/>
3548 </xsd:simpleType>
3549 <xsd:simpleType name="QuantityTypeOld">
3550   <xsd:restriction base="xsd:string"/>
3551 </xsd:simpleType>
3552 <xsd:complexType name="QuantityType">
3553   <xsd:choice>
3554     <xsd:element name="QuantityText" type="xsd:string" maxOccurs="unbounded"/>
3555     <xsd:element name="MeasuredQuantity">
3556       <xsd:complexType>
3557         <xsd:sequence>
3558           <xsd:element name="Amount" type="xsd:double"/>
3559           <xsd:element name="UnitOfMeasure" type="ValueListType" minOccurs="0"/>
3560         </xsd:sequence>
3561       </xsd:complexType>
3562     </xsd:element>
3563   </xsd:choice>
3564 </xsd:complexType>
3565 <xsd:simpleType name="RestrictionsType">
3566   <xsd:restriction base="xsd:string"/>
3567 </xsd:simpleType>
3568 <xsd:simpleType name="AnticipatedFunctionType">
3569   <xsd:restriction base="xsd:string"/>
3570 </xsd:simpleType>
3571 <xsd:complexType name="PriceQuoteType">
3572   <xsd:complexContent>
3573     <xsd:extension base="QuantityType"/>
3574   </xsd:complexContent>
3575 </xsd:complexType>
3576 <xsd:simpleType name="OrderIDType">
3577   <xsd:restriction base="xsd:string"/>
3578 </xsd:simpleType>
3579 <xsd:complexType name="AssignmentInstructionsType">
3580   <xsd:sequence>
3581     <xsd:element name="ModeOfTransportation" type="ModeOfTransportationType"
3582       minOccurs="0"
3583       maxOccurs="1"/>
3584     <xsd:element name="NavigationInstructions" type="NavigationInstructionsType"
3585       minOccurs="0" maxOccurs="1"/>
3586     <xsd:element name="ReportingInstructions" type="ReportingInstructionsType"
3587       minOccurs="0"
3588       maxOccurs="1"/>
3589   </xsd:sequence>
3590 </xsd:complexType>
3591 <xsd:simpleType name="ModeOfTransportationType">
3592   <xsd:restriction base="xsd:string"/>
3593 </xsd:simpleType>
3594 <xsd:simpleType name="NavigationInstructionsType">
3595   <xsd:restriction base="xsd:string"/>
3596 </xsd:simpleType>
3597 <xsd:simpleType name="ReportingInstructionsType">
3598   <xsd:restriction base="xsd:string"/>
3599 </xsd:simpleType>
3600 <xsd:simpleType name="ScheduleTypeType">
3601   <xsd:restriction base="xsd:string">
3602     <xsd:enumeration value="RequestedArrival"/>

```

```

3603     <xsd:enumeration value="EstimatedArrival"/>
3604     <xsd:enumeration value="ActualArrival"/>
3605     <xsd:enumeration value="RequestedDeparture"/>
3606     <xsd:enumeration value="EstimatedDeparture"/>
3607     <xsd:enumeration value="ActualDeparture"/>
3608     <xsd:enumeration value="EstimatedReturnDeparture"/>
3609     <xsd:enumeration value="EstimatedReturnArrival"/>
3610     <xsd:enumeration value="ActualReturnArrival"/>
3611     <xsd:enumeration value="RequestedReturnDeparture"/>
3612     <xsd:enumeration value="RequestedReturnArrival"/>
3613     <xsd:enumeration value="ActualReturnDeparture"/>
3614     <xsd:enumeration value="BeginAvailable"/>
3615     <xsd:enumeration value="EndAvailable"/>
3616     <xsd:enumeration value="Committed"/>
3617     <xsd:enumeration value="Current"/>
3618     <xsd:enumeration value="ReportTo"/>
3619     <xsd:enumeration value="Route"/>
3620   </xsd:restriction>
3621 </xsd:simpleType>
3622 <xsd:complexType name="LocationType">
3623   <xsd:sequence>
3624     <!-- One (or more) of the LocationDescription, Address and TargetArea elements is
3625           required -->
3626     <xsd:element name="LocationDescription" type="LocationDescriptionType"
3627               minOccurs="0"
3628               maxOccurs="1"/>
3629     <xsd:element name="Address" type="xal:AddressType" minOccurs="0" maxOccurs="1"/>
3630     <xsd:element name="TargetArea" type="geo-oasis:WhereType" minOccurs="0"
3631               maxOccurs="1"/>
3632   </xsd:sequence>
3633 </xsd:complexType>
3634 <xsd:simpleType name="LocationDescriptionType">
3635   <xsd:restriction base="xsd:string"/>
3636 </xsd:simpleType>
3637 <xsd:complexType name="ValueListType">
3638   <xsd:sequence>
3639     <xsd:element name="ValueListURN" type="ValueListURNType"/>
3640     <xsd:element name="Value" type="ValueType" maxOccurs="unbounded"/>
3641   </xsd:sequence>
3642 </xsd:complexType>
3643 <xsd:simpleType name="ValueListURNType">
3644   <xsd:restriction base="xsd:anyURI"/>
3645 </xsd:simpleType>
3646 <xsd:simpleType name="ValueType">
3647   <xsd:restriction base="xsd:string"/>
3648 </xsd:simpleType>
3649 </xsd:schema>
3650

```

3651 A.2 Resource Messaging Reference Schema

```

3652 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3653         xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3654         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3655         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3656         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3657         elementFormDefault="qualified"
3658         attributeFormDefault="unqualified">
3659   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3660             schemaLocation="EDXL-RMCommonTypes.xsd"/>
3661   <!-- This schema is the base reference schema for all EDXL-RM messages.
3662         All resource messages will conform to this schema and to the elementicular
3663         sub-schema corresponding to the message type.-->
3664   <complexType name="EDXLResourceMessageReferenceType">
3665     <sequence>
3666       <element name="MessageID" type="rm:MessageIDType"/>
3667       <element name="SentDateTime" type="rm:DateTimeType"/>
3668       <element name="MessageContentType" type="rm:MessageContentTypeType"/>
3669       <element name="MessageDescription" type="rm:MessageDescriptionType"

```

```

3670     minOccurs="0" maxOccurs="1"/>
3671 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3672 <element name="PrecedingMessageID" type="rm:MessageIDType"
3673     minOccurs="0" maxOccurs="1"/>
3674 <element name="IncidentInformation" type="rm:IncidentInformationType"
3675     minOccurs="0" maxOccurs="unbounded"/>
3676 <element name="MessageRecall" type="rm:MessageRecallType"
3677     minOccurs="0" maxOccurs="1"/>
3678 <element name="Funding" type="rm:FundingType" minOccurs="0"
3679     maxOccurs="unbounded"/>
3680 <element name="ContactInformation" type="rm:ContactInformationType"
3681     minOccurs="1" maxOccurs="unbounded"/>
3682 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
3683   <complexType>
3684     <sequence>
3685       <element name="ResourceInfoElementID"
3686         type="rm:ResourceInfoElementIDType"/>
3687       <element name="ResponseInformation" type="rm:ResponseInformationType"
3688         minOccurs="0" maxOccurs="1"/>
3689       <element name="Resource" minOccurs="0" maxOccurs="1">
3690         <complexType>
3691           <sequence>
3692             <!-- One (or more) of first three elements is required -->
3693             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3694               maxOccurs="1"/>
3695             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3696               maxOccurs="1"/>
3697             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3698               maxOccurs="1"/>
3699             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3700               maxOccurs="1"/>
3701             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3702               maxOccurs="unbounded"/>
3703             <element name="Description" type="rm:DescriptionType" minOccurs="0"
3704               maxOccurs="1"/>
3705             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3706               maxOccurs="1"/>
3707             <element name="Certifications" type="rm:CertificationsType"
3708               minOccurs="0" maxOccurs="1"/>
3709             <element name="SpecialRequirements"
3710               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3711             <element name="ResponsibleParty" type="rm:ContactInformationType"
3712               minOccurs="0" maxOccurs="1"/>
3713             <element name="OwnershipInformation"
3714               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3715             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3716               <complexType>
3717                 <sequence>
3718                   <element name="InventoryRefreshDateTime"
3719                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3720                   <element name="DeploymentStatus" type="rm:ValueListType"
3721                     minOccurs="0" maxOccurs="1"/>
3722                   <element name="Availability" type="rm:AvailabilityType"
3723                     minOccurs="0" maxOccurs="1"/>
3724                 </sequence>
3725               </complexType>
3726             </element>
3727           </sequence>
3728         </complexType>
3729       </element>
3730     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3731       <complexType>
3732         <sequence>
3733           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3734             maxOccurs="1"/>
3735           <element name="Restrictions" type="rm:RestrictionsType"
3736             minOccurs="0" maxOccurs="1"/>
3737           <element name="AnticipatedFunction"
3738             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3739           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3740             maxOccurs="1"/>

```

```

3741         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
3742             maxOccurs="1"/>
3743         <element name="AssignmentInstructions"
3744             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3745     </sequence>
3746 </complexType>
3747 </element>
3748 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3749     <complexType>
3750         <sequence>
3751             <element name="ScheduleType" type="rm:ScheduleTypeType"/>
3752             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3753                 maxOccurs="1"/>
3754             <element name="Location" type="rm:LocationType" minOccurs="0"
3755                 maxOccurs="1"/>
3756         </sequence>
3757     </complexType>
3758 </element>
3759 </sequence>
3760 </complexType>
3761 </element>
3762 </sequence>
3763 </complexType>
3764 </schema>

```

3765 A.3 RequestResource Message Schema

```

3766 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3767     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3768     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3769     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3770     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3771     elementFormDefault="qualified" attributeFormDefault="unqualified">
3772     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3773         schemaLocation="EDXL-RMCommonTypes.xsd"/>
3774     <!-- This schema describes the structure of
3775         EDXL-RM "RequestResource" messages.-->
3776     <element name="RequestResource">
3777         <complexType>
3778             <sequence>
3779                 <element name="MessageID" type="rm:MessageIDType"/>
3780                 <element name="SentDateTime" type="rm:DateTimeType"/>
3781                 <element name="MessageContentType">
3782                     <simpleType>
3783                         <restriction base="rm:MessageContentTypeType">
3784                             <enumeration value="RequestResource"/>
3785                         </restriction>
3786                     </simpleType>
3787                 </element>
3788             </sequence>
3789             <element name="MessageDescription" type="rm:MessageDescriptionType" minOccurs="0"
3790                 maxOccurs="1"/>
3791                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3792                 <element name="IncidentInformation" type="rm:IncidentInformationType"
3793                     minOccurs="0" maxOccurs="unbounded"/>
3794                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3795                     maxOccurs="1"/>
3796                 <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3797                     <complexType>
3798                         <sequence>
3799                             <!-- One(or both) of the FundCode and FundingInfo elements is required -->
3800                             <element name="FundCode" type="rm:FundCodeType" minOccurs="0"
3801                                 maxOccurs="1"/>
3802                             <element name="FundingInfo" type="rm:FundingInfoType" minOccurs="0"
3803                                 maxOccurs="1"/>
3804                         </sequence>
3805                     </complexType>
3806                 </element>
3807                 <element name="ContactInformation" type="rm:ContactInformationType"

```

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3808     minOccurs="1" maxOccurs="unbounded"/>
3809 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3810   <complexType>
3811     <sequence>
3812       <element name="ResourceInfoElementID"
3813         type="rm:ResourceInfoElementIDType" />
3814       <element name="Resource">
3815         <complexType>
3816           <sequence>
3817             <!-- One (or more) of first three elements is required -->
3818             <element name="ResourceID" type="rm:ResourceIDType"
3819               minOccurs="0" maxOccurs="1" />
3820             <element name="Name" type="rm:ResourceNameType"
3821               minOccurs="0" maxOccurs="1" />
3822             <element name="TypeStructure" type="rm:ValueListType"
3823               minOccurs="0" maxOccurs="1" />
3824             <element name="TypeInfo" type="rm:TypeInfoType"
3825               minOccurs="0" maxOccurs="1" />
3826             <element name="Keyword" type="rm:ValueListType"
3827               minOccurs="0" maxOccurs="unbounded" />
3828             <element name="Description" type="rm:DescriptionType"
3829               minOccurs="0" maxOccurs="1" />
3830             <element name="Credentials" type="rm:CredentialsType"
3831               minOccurs="0" maxOccurs="1" />
3832             <element name="Certifications" type="rm:CertificationsType"
3833               minOccurs="0" maxOccurs="1" />
3834             <element name="SpecialRequirements"
3835               type="rm:SpecialRequirementsType" minOccurs="0"
3836               maxOccurs="1" />
3837           </sequence>
3838         </complexType>
3839       </element>
3840     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3841       <complexType>
3842         <sequence>
3843           <element name="Quantity" type="rm:QuantityType"
3844             minOccurs="0" maxOccurs="1" />
3845           <element name="Restrictions" type="rm:RestrictionsType"
3846             minOccurs="0" maxOccurs="1" />
3847           <element name="AnticipatedFunction"
3848             type="rm:AnticipatedFunctionType" minOccurs="0"
3849             maxOccurs="1" />
3850         </sequence>
3851       </complexType>
3852     </element>
3853   <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3854     <complexType>
3855       <sequence>
3856         <element name="ScheduleType">
3857           <simpleType>
3858             <restriction base="rm:ScheduleTypeType">
3859               <enumeration value="RequestedArrival" />
3860               <enumeration value="RequestedDeparture" />
3861               <enumeration value="EstimatedReturnDeparture" />
3862               <enumeration value="EstimatedReturnArrival" />
3863               <enumeration value="ReportTo" />
3864               <enumeration value="Route" />
3865             </restriction>
3866           </simpleType>
3867         </element>
3868         <element name="DateTime" type="rm:DateTimeType"
3869           minOccurs="0" maxOccurs="1" />
3870         <element name="Location" type="rm:LocationType"
3871           minOccurs="0" maxOccurs="1" />
3872       </sequence>
3873     </complexType>
3874   </element>
3875 </sequence>
3876 </complexType>
3877 </element>
3878 </sequence>

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```
</complexType>  
</element>  
</schema>
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A.4 ResponseToRequestResource Message Schema

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```
<schema xmlns="http://www.w3.org/2001/XMLSchema"  
  xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
  targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
  elementFormDefault="qualified"  
  attributeFormDefault="unqualified">  
  <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
    schemaLocation="EDXL-RMCommonTypes.xsd"/>  
  <!-- This schema describes the structure of  
    EDXL-RM "ResponseToRequestResource"  
    messages.-->  
  <element name="ResponseToRequestResource">  
    <complexType>  
      <sequence>  
        <element name="MessageID" type="rm:MessageIDType"/>  
        <element name="SentDateTime" type="rm:DateTimeType"/>  
        <element name="MessageContentType">  
          <simpleType>  
            <restriction base="rm:MessageContentTypeType">  
              <enumeration value="ResponseToRequestResource"/>  
            </restriction>  
          </simpleType>  
        </element>  
        <element name="MessageDescription" type="rm:MessageDescriptionType"  
          minOccurs="0" maxOccurs="1"/>  
        <element name="OriginatingMessageID" type="rm:MessageIDType"/>  
        <element name="PrecedingMessageID" type="rm:MessageIDType"/>  
        <element name="IncidentInformation" type="rm:IncidentInformationType"  
          minOccurs="0" maxOccurs="unbounded"/>  
        <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"  
          maxOccurs="1"/>  
        <element name="Funding" type="rm:FundingType" minOccurs="0"  
          maxOccurs="unbounded"/>  
        <element name="ContactInformation" type="rm:ContactInformationType"  
          minOccurs="1" maxOccurs="unbounded"/>  
        <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">  
          <complexType>  
            <sequence>  
              <element name="ResourceInfoElementID"  
                type="rm:ResourceInfoElementIDType"/>  
              <element name="ResponseInformation" type="rm:ResponseInformationType"/>  
              <element name="Resource" minOccurs="0" maxOccurs="1">  
                <complexType>  
                  <sequence>  
                    <!-- One (or more) of first three elements is required -->  
                    <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="Name" type="rm:ResourceNameType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="Keyword" type="rm:ValueListType" minOccurs="0"  
                      maxOccurs="unbounded"/>  
                    <element name="Description" type="rm:DescriptionType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="Credentials" type="rm:CredentialsType" minOccurs="0"  
                      maxOccurs="1"/>  
                    <element name="Certifications" type="rm:CertificationsType"  
                      minOccurs="0" maxOccurs="1"/>  
                    <element name="SpecialRequirements"
```



```

3946         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3947     <element name="ResponsibleParty" type="rm:ContactInformationType"
3948         minOccurs="0" maxOccurs="1"/>
3949     <element name="OwnershipInformation"
3950         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3951     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3952         <complexType>
3953             <sequence>
3954                 <element name="InventoryRefreshDateTime"
3955                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3956                 <element name="DeploymentStatus" type="rm:ValueListType"
3957                     minOccurs="0" maxOccurs="1"/>
3958                 <element name="Availability" type="rm:AvailabilityType"
3959                     minOccurs="0" maxOccurs="1"/>
3960             </sequence>
3961         </complexType>
3962     </element>
3963 </sequence>
3964 </complexType>
3965 </element>
3966 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3967     <complexType>
3968         <sequence>
3969             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3970                 maxOccurs="1"/>
3971             <element name="Restrictions" type="rm:RestrictionsType"
3972                 minOccurs="0" maxOccurs="1"/>
3973             <element name="AnticipatedFunction"
3974                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3975             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3976                 maxOccurs="1"/>
3977             <element name="AssignmentInstructions"
3978                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3979         </sequence>
3980     </complexType>
3981 </element>
3982 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3983     <complexType>
3984         <sequence>
3985             <element name="ScheduleType">
3986                 <simpleType>
3987                     <restriction base="rm:ScheduleTypeType">
3988                         <enumeration value="EstimatedArrival"/>
3989                         <enumeration value="EstimatedDeparture"/>
3990                         <enumeration value="RequestedReturnDeparture"/>
3991                         <enumeration value="RequestedReturnArrival"/>
3992                         <enumeration value="BeginAvailable"/>
3993                         <enumeration value="EndAvailable"/>
3994                         <enumeration value="RequestedArrival"/>
3995                         <enumeration value="RequestedDeparture"/>
3996                         <enumeration value="EstimatedReturnDeparture"/>
3997                         <enumeration value="ReportTo"/>
3998                         <enumeration value="Route"/>
3999                     </restriction>
4000                 </simpleType>
4001             </element>
4002             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4003                 maxOccurs="1"/>
4004             <element name="Location" type="rm:LocationType" minOccurs="0"
4005                 maxOccurs="1"/>
4006         </sequence>
4007     </complexType>
4008 </element>
4009 </sequence>
4010 </complexType>
4011 </element>
4012 </sequence>
4013 </complexType>
4014 </element>
4015 </schema>

```

A.5 RequisitionResource Message Schema

```

4017 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4018   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4019   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4020   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4021   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4022   elementFormDefault="qualified"
4023   attributeFormDefault="unqualified">
4024   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4025     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4026   <!-- This schema describes the structure of
4027     EDXL-RM "RequisitionResource" messages.-->
4028   <element name="RequisitionResource">
4029     <complexType>
4030       <sequence>
4031         <element name="MessageID" type="rm:MessageIDType"/>
4032         <element name="SentDateTime" type="rm:DateTimeType"/>
4033         <element name="MessageContentType">
4034           <simpleType>
4035             <restriction base="rm:MessageContentTypeType">
4036               <enumeration value="RequisitionResource"/>
4037             </restriction>
4038           </simpleType>
4039         </element>
4040         <element name="MessageDescription" type="rm:MessageDescriptionType"
4041           minOccurs="0" maxOccurs="1"/>
4042         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4043         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4044           maxOccurs="1"/>
4045         <element name="IncidentInformation" type="rm:IncidentInformationType"
4046           minOccurs="0" maxOccurs="unbounded"/>
4047         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4048           maxOccurs="1"/>
4049         <element name="Funding" type="rm:FundingType" minOccurs="1"
4050           maxOccurs="unbounded"/>
4051         <element name="ContactInformation" type="rm:ContactInformationType"
4052           minOccurs="1" maxOccurs="unbounded"/>
4053         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4054           <complexType>
4055             <sequence>
4056               <element name="ResourceInfoElementID"
4057                 type="rm:ResourceInfoElementIDType"/>
4058               <element name="Resource">
4059                 <complexType>
4060                   <sequence>
4061                     <!-- One (or more) of first three elements is required -->
4062                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4063                       maxOccurs="1"/>
4064                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4065                       maxOccurs="1"/>
4066                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4067                       maxOccurs="1"/>
4068                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4069                       maxOccurs="1"/>
4070                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4071                       maxOccurs="unbounded"/>
4072                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4073                       maxOccurs="1"/>
4074                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4075                       maxOccurs="1"/>
4076                     <element name="Certifications" type="rm:CertificationsType"
4077                       minOccurs="0" maxOccurs="1"/>
4078                     <element name="SpecialRequirements"
4079                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4080                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4081                       minOccurs="0" maxOccurs="1"/>
4082                     <element name="OwnershipInformation"
4083                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4084                   </sequence>

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4085         </complexType>
4086     </element>
4087     <element name="AssignmentInformation">
4088         <complexType>
4089             <sequence>
4090                 <element name="Quantity" type="rm:QuantityType"/>
4091                 <element name="Restrictions" type="rm:RestrictionsType"
4092                     minOccurs="0" maxOccurs="1"/>
4093                 <element name="AnticipatedFunction"
4094                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4095                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4096                     maxOccurs="1"/>
4097                 <element name="AssignmentInstructions"
4098                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4099             </sequence>
4100         </complexType>
4101     </element>
4102     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4103         <complexType>
4104             <sequence>
4105                 <element name="ScheduleType">
4106                     <simpleType>
4107                         <restriction base="rm:ScheduleTypeType">
4108                             <enumeration value="EstimatedArrival"/>
4109                             <enumeration value="EstimatedDeparture"/>
4110                             <enumeration value="EstimatedReturnDeparture"/>
4111                             <enumeration value="EstimatedReturnArrival"/>
4112                             <enumeration value="ReportTo"/>
4113                             <enumeration value="RequestedArrival"/>
4114                             <enumeration value="RequestedDeparture"/>
4115                             <enumeration value="Route"/>
4116                         </restriction>
4117                     </simpleType>
4118                 </element>
4119                 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4120                     maxOccurs="1"/>
4121                 <element name="Location" type="rm:LocationType" minOccurs="0"
4122                     maxOccurs="1"/>
4123             </sequence>
4124         </complexType>
4125     </element>
4126 </sequence>
4127 </complexType>
4128 </element>
4129 </sequence>
4130 </complexType>
4131 </element>
4132 </schema>

```

4133 A.6 CommitResource Message Schema

```

4134 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4135     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4136     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4137     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4138     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4139     elementFormDefault="qualified"
4140     attributeFormDefault="unqualified">
4141     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4142         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4143     <!-- This schema describes the structure of
4144         EDXL-RM "CommitResource" messages.-->
4145     <element name="CommitResource">
4146         <complexType>
4147             <sequence>
4148                 <element name="MessageID" type="rm:MessageIDType"/>
4149                 <element name="SentDateTime" type="rm:DateTimeType"/>
4150                 <element name="MessageContentType">
4151                     <simpleType>

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```

4152     <restriction base="rm:MessageContentTypeType">
4153         <enumeration value="CommitResource"/>
4154     </restriction>
4155 </simpleType>
4156 </element>
4157 <element name="MessageDescription" type="rm:MessageDescriptionType"
4158     minOccurs="0" maxOccurs="1"/>
4159 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4160 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4161 <element name="IncidentInformation" type="rm:IncidentInformationType"
4162     minOccurs="0" maxOccurs="unbounded"/>
4163 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4164     maxOccurs="1"/>
4165 <element name="Funding" type="rm:FundingType" minOccurs="0"
4166     maxOccurs="unbounded"/>
4167 <element name="ContactInformation" type="rm:ContactInformationType"
4168     minOccurs="1" maxOccurs="unbounded"/>
4169 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4170     <complexType>
4171         <sequence>
4172             <element name="ResourceInfoElementID"
4173                 type="rm:ResourceInfoElementIDType"/>
4174             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4175             <element name="Resource" minOccurs="0" maxOccurs="1">
4176                 <complexType>
4177                     <sequence>
4178                         <!-- One (or more) of first three elements is required -->
4179                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4180                             maxOccurs="1"/>
4181                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4182                             maxOccurs="1"/>
4183                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4184                             maxOccurs="1"/>
4185                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4186                             maxOccurs="1"/>
4187                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4188                             maxOccurs="unbounded"/>
4189                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4190                             maxOccurs="1"/>
4191                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4192                             maxOccurs="1"/>
4193                         <element name="Certifications" type="rm:CertificationsType"
4194                             minOccurs="0" maxOccurs="1"/>
4195                         <element name="SpecialRequirements"
4196                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4197                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4198                             minOccurs="0" maxOccurs="1"/>
4199                         <element name="OwnershipInformation"
4200                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4201                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4202                             <complexType>
4203                                 <sequence>
4204                                     <element name="InventoryRefreshDateTime"
4205                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4206                                     <element name="DeploymentStatus" type="rm:ValueListType"
4207                                         minOccurs="0" maxOccurs="1"/>
4208                                 </sequence>
4209                             </complexType>
4210                         </element>
4211                     </sequence>
4212                 </complexType>
4213             </element>
4214             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4215                 <complexType>
4216                     <sequence>
4217                         <element name="Quantity" type="rm:QuantityType"/>
4218                         <element name="Restrictions" type="rm:RestrictionsType"
4219                             minOccurs="0" maxOccurs="1"/>
4220                         <element name="AnticipatedFunction"
4221                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>

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4222     <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4223         maxOccurs="1"/>
4224     <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4225         maxOccurs="1"/>
4226     <element name="AssignmentInstructions"
4227         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4228     </sequence>
4229 </complexType>
4230 </element>
4231 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4232     <complexType>
4233         <sequence>
4234             <element name="ScheduleType">
4235                 <simpleType>
4236                     <restriction base="rm:ScheduleTypeType">
4237                         <enumeration value="ActualDeparture"/>
4238                         <enumeration value="Committed"/>
4239                         <enumeration value="RequestedArrival"/>
4240                         <enumeration value="RequestedDeparture"/>
4241                         <enumeration value="EstimatedReturnDeparture"/>
4242                         <enumeration value="RequestedReturnArrival"/>
4243                         <enumeration value="EstimatedReturnArrival"/>
4244                         <enumeration value="ReportTo"/>
4245                         <enumeration value="EstimatedArrival"/>
4246                         <enumeration value="EstimatedDeparture"/>
4247                         <enumeration value="RequestedReturnDeparture"/>
4248                         <enumeration value="BeginAvailable"/>
4249                         <enumeration value="EndAvailable"/>
4250                         <enumeration value="Current"/>
4251                         <enumeration value="Route"/>
4252                     </restriction>
4253                 </simpleType>
4254             </element>
4255             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4256                 maxOccurs="1"/>
4257             <element name="Location" type="rm:LocationType" minOccurs="0"
4258                 maxOccurs="1"/>
4259         </sequence>
4260     </complexType>
4261 </element>
4262 </sequence>
4263 </complexType>
4264 </element>
4265 </sequence>
4266 </complexType>
4267 </element>
4268 </schema>

```

4269 A.7 RequestInformation Message Schema

```

4270 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4271     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4272     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4273     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4274     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4275     elementFormDefault="qualified"
4276     attributeFormDefault="unqualified">
4277     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4278         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4279     <!-- This schema describes the structure of
4280         EDXL-RM "RequestInformation" messages.-->
4281     <element name="RequestInformation">
4282         <complexType>
4283             <sequence>
4284                 <element name="MessageID" type="rm:MessageIDType"/>
4285                 <element name="SentDateTime" type="rm:DateTimeType"/>
4286                 <element name="MessageContentType">
4287                     <simpleType>
4288                         <restriction base="rm:MessageContentTypeType">

```

```

4289         <enumeration value="RequestInformation"/>
4290     </restriction>
4291 </simpleType>
4292 </element>
4293 <element name="MessageDescription" type="rm:MessageDescriptionType"/>
4294 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4295 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4296     maxOccurs="1"/>
4297 <element name="IncidentInformation" type="rm:IncidentInformationType"
4298     minOccurs="0" maxOccurs="unbounded"/>
4299 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4300     maxOccurs="1"/>
4301 <element name="Funding" type="rm:FundingType" minOccurs="0"
4302     maxOccurs="unbounded"/>
4303 <element name="ContactInformation" type="rm:ContactInformationType"
4304     minOccurs="1" maxOccurs="unbounded"/>
4305 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4306     <complexType>
4307         <sequence>
4308             <element name="ResourceInfoElementID"
4309                 type="rm:ResourceInfoElementIDType"/>
4310             <element name="Resource" minOccurs="0" maxOccurs="1">
4311                 <complexType>
4312                     <sequence>
4313                         <!-- One (or more) of first three elements is required -->
4314                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4315                             maxOccurs="1"/>
4316                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4317                             maxOccurs="1"/>
4318                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4319                             maxOccurs="1"/>
4320                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4321                             maxOccurs="1"/>
4322                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4323                             maxOccurs="unbounded"/>
4324                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4325                             maxOccurs="1"/>
4326                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4327                             maxOccurs="1"/>
4328                         <element name="Certifications" type="rm:CertificationsType"
4329                             minOccurs="0" maxOccurs="1"/>
4330                         <element name="SpecialRequirements"
4331                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4332                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4333                             minOccurs="0" maxOccurs="1"/>
4334                         <element name="OwnershipInformation"
4335                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4336                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4337                             <complexType>
4338                                 <sequence>
4339                                     <element name="InventoryRefreshDateTime"
4340                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4341                                     <element name="DeploymentStatus" type="rm:ValueListType"
4342                                         minOccurs="0" maxOccurs="1"/>
4343                                     <element name="Availability" type="rm:AvailabilityType"
4344                                         minOccurs="0" maxOccurs="1"/>
4345                                 </sequence>
4346                             </complexType>
4347                         </element>
4348                     </sequence>
4349                 </complexType>
4350             </element>
4351             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4352                 <complexType>
4353                     <sequence>
4354                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4355                             maxOccurs="1"/>
4356                         <element name="Restrictions" type="rm:RestrictionsType"
4357                             minOccurs="0" maxOccurs="1"/>
4358                         <element name="AnticipatedFunction"
4359                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>

```

```

4360         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4361             maxOccurs="1"/>
4362         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4363             maxOccurs="1"/>
4364         <element name="AssignmentInstructions"
4365             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4366     </sequence>
4367 </complexType>
4368 </element>
4369 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4370     <complexType>
4371         <sequence>
4372             <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4373             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4374                 maxOccurs="1"/>
4375             <element name="Location" type="rm:LocationType" minOccurs="0"
4376                 maxOccurs="1"/>
4377         </sequence>
4378     </complexType>
4379 </element>
4380 </sequence>
4381 </complexType>
4382 </element>
4383 </sequence>
4384 </complexType>
4385 </element>
4386 </schema>

```

4387 A.8 ResponseToRequestInformation Message Schema

```

4388 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4389     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4390     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4391     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4392     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4393     elementFormDefault="qualified"
4394     attributeFormDefault="unqualified">
4395     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4396         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4397     <!-- This schema describes the structure of
4398         EDXL-RM "ResponseToRequestInformation" messages.-->
4399     <element name="ResponseToRequestInformation">
4400         <complexType>
4401             <sequence>
4402                 <element name="MessageID" type="rm:MessageIDType"/>
4403                 <element name="SentDateTime" type="rm:DateTimeType"/>
4404                 <element name="MessageContentType">
4405                     <simpleType>
4406                         <restriction base="rm:MessageContentTypeType">
4407                             <enumeration value="ResponseToRequestInformation"/>
4408                         </restriction>
4409                     </simpleType>
4410                 </element>
4411                 <element name="MessageDescription" type="rm:MessageDescriptionType"
4412                     minOccurs="0" maxOccurs="1"/>
4413                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4414                 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4415                 <element name="IncidentInformation" type="rm:IncidentInformationType"
4416                     minOccurs="0" maxOccurs="unbounded"/>
4417                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4418                     maxOccurs="1"/>
4419                 <element name="Funding" type="rm:FundingType" minOccurs="0"
4420                     maxOccurs="unbounded"/>
4421                 <element name="ContactInformation" type="rm:ContactInformationType"
4422                     minOccurs="1" maxOccurs="unbounded"/>
4423                 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4424                     <complexType>
4425                         <sequence>
4426                             <element name="ResourceInfoElementID"

```

```

4427         type="rm:ResourceInfoElementIDType"/>
4428     <element name="ResponseInformation" type="rm:ResponseInformationType"
4429         minOccurs="0" maxOccurs="1"/>
4430     <element name="Resource" minOccurs="0" maxOccurs="1">
4431         <complexType>
4432             <sequence>
4433                 <!-- One (or more) of first three elements is required -->
4434                 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4435                     maxOccurs="1"/>
4436                 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4437                     maxOccurs="1"/>
4438                 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4439                     maxOccurs="1"/>
4440                 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4441                     maxOccurs="1"/>
4442                 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4443                     maxOccurs="unbounded"/>
4444                 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4445                     maxOccurs="1"/>
4446                 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4447                     maxOccurs="1"/>
4448                 <element name="Certifications" type="rm:CertificationsType"
4449                     minOccurs="0" maxOccurs="1"/>
4450                 <element name="SpecialRequirements"
4451                     type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4452                 <element name="ResponsibleParty" type="rm:ContactInformationType"
4453                     minOccurs="0" maxOccurs="1"/>
4454                 <element name="OwnershipInformation"
4455                     type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4456                 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4457                     <complexType>
4458                         <sequence>
4459                             <element name="InventoryRefreshDateTime"
4460                                 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4461                             <element name="DeploymentStatus" type="rm:ValueListType"
4462                                 minOccurs="0" maxOccurs="1"/>
4463                             <element name="Availability" type="rm:AvailabilityType"
4464                                 minOccurs="0" maxOccurs="1"/>
4465                         </sequence>
4466                     </complexType>
4467                 </element>
4468             </sequence>
4469         </complexType>
4470     </element>
4471     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4472         <complexType>
4473             <sequence>
4474                 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4475                     maxOccurs="1"/>
4476                 <element name="Restrictions" type="rm:RestrictionsType"
4477                     minOccurs="0" maxOccurs="1"/>
4478                 <element name="AnticipatedFunction"
4479                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4480                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4481                     maxOccurs="1"/>
4482                 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4483                     maxOccurs="1"/>
4484                 <element name="AssignmentInstructions"
4485                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4486             </sequence>
4487         </complexType>
4488     </element>
4489     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4490         <complexType>
4491             <sequence>
4492                 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4493                 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4494                     maxOccurs="1"/>
4495                 <element name="Location" type="rm:LocationType" minOccurs="0"
4496                     maxOccurs="1"/>
4497             </sequence>

```



```

4498         </complexType>
4499     </element>
4500 </sequence>
4501 </complexType>
4502 </element>
4503 </sequence>
4504 </complexType>
4505 </element>
4506 </schema>

```

4507 A.9 OfferUnsolicitedResource Message Schema

```

4508 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4509   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4510   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4511   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4512   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4513   elementFormDefault="qualified"
4514   attributeFormDefault="unqualified">
4515   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4516     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4517   <!-- This schema describes the structure of
4518     EDXL-RM "OfferUnsolicitedResource" messages.-->
4519   <element name="OfferUnsolicitedResource">
4520     <complexType>
4521       <sequence>
4522         <element name="MessageID" type="rm:MessageIDType"/>
4523         <element name="SentDateTime" type="rm:DateTimeType"/>
4524         <element name="MessageContentType">
4525           <simpleType>
4526             <restriction base="rm:MessageContentTypeType">
4527               <enumeration value="OfferUnsolicitedResource"/>
4528             </restriction>
4529           </simpleType>
4530         </element>
4531         <element name="MessageDescription" type="rm:MessageDescriptionType"
4532           minOccurs="0" maxOccurs="1"/>
4533         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4534         <element name="IncidentInformation" type="rm:IncidentInformationType"
4535           minOccurs="0" maxOccurs="unbounded"/>
4536         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4537           maxOccurs="1"/>
4538         <element name="ContactInformation" type="rm:ContactInformationType"
4539           minOccurs="1" maxOccurs="unbounded"/>
4540         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4541           <complexType>
4542             <sequence>
4543               <element name="ResourceInfoElementID"
4544                 type="rm:ResourceInfoElementIDType"/>
4545               <element name="Resource">
4546                 <complexType>
4547                   <sequence>
4548                     <!-- One (or more) of first three elements is required -->
4549                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4550                       maxOccurs="1"/>
4551                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4552                       maxOccurs="1"/>
4553                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4554                       maxOccurs="1"/>
4555                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4556                       maxOccurs="1"/>
4557                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4558                       maxOccurs="unbounded"/>
4559                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4560                       maxOccurs="1"/>
4561                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4562                       maxOccurs="1"/>
4563                     <element name="Certifications" type="rm:CertificationsType"
4564                       minOccurs="0" maxOccurs="1"/>

```

```

4565     <element name="SpecialRequirements"
4566         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4567     <element name="ResponsibleParty" type="rm:ContactInformationType"
4568         minOccurs="0" maxOccurs="1"/>
4569     <element name="OwnershipInformation"
4570         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4571     <element name="ResourceStatus" minOccurs="0" maxOccurs="1"/>
4572     <complexType>
4573         <sequence>
4574             <element name="InventoryRefreshDateTime"
4575                 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4576             <element name="DeploymentStatus" type="rm:ValueListType"
4577                 minOccurs="0" maxOccurs="1"/>
4578             <element name="Availability" type="rm:AvailabilityType"
4579                 minOccurs="0" maxOccurs="1"/>
4580         </sequence>
4581     </complexType>
4582 </element>
4583 </sequence>
4584 </complexType>
4585 </element>
4586 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4587     <complexType>
4588         <sequence>
4589             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4590                 maxOccurs="1"/>
4591             <element name="Restrictions" type="rm:RestrictionsType"
4592                 minOccurs="0" maxOccurs="1"/>
4593             <element name="AnticipatedFunction"
4594                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4595             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4596                 maxOccurs="1"/>
4597             <element name="AssignmentInstructions"
4598                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4599         </sequence>
4600     </complexType>
4601 </element>
4602 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4603     <complexType>
4604         <sequence>
4605             <element name="ScheduleType">
4606                 <simpleType>
4607                     <restriction base="rm:ScheduleTypeType">
4608                         <enumeration value="EstimatedArrival"/>
4609                         <enumeration value="EstimatedDeparture"/>
4610                         <enumeration value="RequestedReturnDeparture"/>
4611                         <enumeration value="RequestedReturnArrival"/>
4612                         <enumeration value="BeginAvailable"/>
4613                         <enumeration value="EndAvailable"/>
4614                         <enumeration value="Route"/>
4615                     </restriction>
4616                 </simpleType>
4617             </element>
4618             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4619                 maxOccurs="1"/>
4620             <element name="Location" type="rm:LocationType" minOccurs="0"
4621                 maxOccurs="1"/>
4622         </sequence>
4623     </complexType>
4624 </element>
4625 </sequence>
4626 </complexType>
4627 </element>
4628 </sequence>
4629 </complexType>
4630 </element>
4631 </schema>

```

A.10 ReleaseResource Message Schema

```

4633 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4634   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4635   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4636   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4637   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4638   elementFormDefault="qualified"
4639   attributeFormDefault="unqualified">
4640   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4641     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4642   <!-- This schema describes the structure of
4643     EDXL-RM "ReleaseResource" messages.-->
4644   <element name="ReleaseResource">
4645     <complexType>
4646       <sequence>
4647         <element name="MessageID" type="rm:MessageIDType"/>
4648         <element name="SentDateTime" type="rm:DateTimeType"/>
4649         <element name="MessageContentType">
4650           <simpleType>
4651             <restriction base="rm:MessageContentTypeType">
4652               <enumeration value="ReleaseResource"/>
4653             </restriction>
4654           </simpleType>
4655         </element>
4656         <element name="MessageDescription" type="rm:MessageDescriptionType"
4657           minOccurs="0" maxOccurs="1"/>
4658         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4659         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4660           maxOccurs="1"/>
4661         <element name="IncidentInformation" type="rm:IncidentInformationType"
4662           minOccurs="0" maxOccurs="unbounded"/>
4663         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4664           maxOccurs="1"/>
4665         <element name="Funding" type="rm:FundingType" minOccurs="0"
4666           maxOccurs="unbounded"/>
4667         <element name="ContactInformation" type="rm:ContactInformationType"
4668           minOccurs="1" maxOccurs="unbounded"/>
4669         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4670           <complexType>
4671             <sequence>
4672               <element name="ResourceInfoElementID"
4673                 type="rm:ResourceInfoElementIDType"/>
4674               <element name="ResponseInformation" type="rm:ResponseInformationType"
4675                 minOccurs="0" maxOccurs="1"/>
4676               <element name="Resource">
4677                 <complexType>
4678                   <sequence>
4679                     <!-- One (or more) of first three elements is required -->
4680                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4681                       maxOccurs="1"/>
4682                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4683                       maxOccurs="1"/>
4684                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4685                       maxOccurs="1"/>
4686                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4687                       maxOccurs="1"/>
4688                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4689                       maxOccurs="unbounded"/>
4690                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4691                       maxOccurs="1"/>
4692                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4693                       maxOccurs="1"/>
4694                     <element name="Certifications" type="rm:CertificationsType"
4695                       minOccurs="0" maxOccurs="1"/>
4696                     <element name="SpecialRequirements"
4697                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4698                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4699                       minOccurs="0" maxOccurs="1"/>
4700                     <element name="OwnershipInformation"

```

```

4701         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4702     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4703         <complexType>
4704             <sequence>
4705                 <element name="DeploymentStatus" type="rm:ValueListType"
4706                     minOccurs="0" maxOccurs="1"/>
4707                 <element name="Availability" type="rm:AvailabilityType"
4708                     minOccurs="0" maxOccurs="1"/>
4709             </sequence>
4710         </complexType>
4711     </element>
4712 </sequence>
4713 </complexType>
4714 </element>
4715 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4716     <complexType>
4717         <sequence>
4718             <element name="Quantity" type="rm:QuantityType"/>
4719             <element name="Restrictions" type="rm:RestrictionsType"
4720                 minOccurs="0" maxOccurs="1"/>
4721             <element name="AnticipatedFunction"
4722                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4723             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4724                 maxOccurs="1"/>
4725             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4726                 maxOccurs="1"/>
4727             <element name="AssignmentInstructions"
4728                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4729         </sequence>
4730     </complexType>
4731 </element>
4732 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4733     <complexType>
4734         <sequence>
4735             <element name="ScheduleType">
4736                 <simpleType>
4737                     <restriction base="rm:ScheduleTypeType">
4738                         <enumeration value="ActualReturnDeparture"/>
4739                         <enumeration value="Current"/>
4740                         <enumeration value="RequestedArrival"/>
4741                         <enumeration value="EstimatedArrival"/>
4742                         <enumeration value="ActualArrival"/>
4743                         <enumeration value="RequestedDeparture"/>
4744                         <enumeration value="EstimatedDeparture"/>
4745                         <enumeration value="ActualDeparture"/>
4746                         <enumeration value="RequestedReturnDeparture"/>
4747                         <enumeration value="RequestedReturnArrival"/>
4748                         <enumeration value="BeginAvailable"/>
4749                         <enumeration value="EndAvailable"/>
4750                         <enumeration value="Committed"/>
4751                         <enumeration value="ReportTo"/>
4752                         <enumeration value="EstimatedReturnDeparture"/>
4753                         <enumeration value="EstimatedReturnArrival"/>
4754                         <enumeration value="Route"/>
4755                     </restriction>
4756                 </simpleType>
4757             </element>
4758             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4759                 maxOccurs="1"/>
4760             <element name="Location" type="rm:LocationType" minOccurs="0"
4761                 maxOccurs="1"/>
4762         </sequence>
4763     </complexType>
4764 </element>
4765 </sequence>
4766 </complexType>
4767 </element>
4768 </sequence>
4769 </complexType>
4770 </element>

```

A.11 RequestReturn Message Schema

```

4773 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4774       xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4775       targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4776       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4777       xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4778       elementFormDefault="qualified"
4779       attributeFormDefault="unqualified">
4780   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4781     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4782   <!-- This schema describes the structure of
4783     EDXL-RM "RequestReturn" messages.-->
4784   <element name="RequestReturn">
4785     <complexType>
4786       <sequence>
4787         <element name="MessageID" type="rm:MessageIDType"/>
4788         <element name="SentDateTime" type="rm:DateTimeType"/>
4789         <element name="MessageContentType">
4790           <simpleType>
4791             <restriction base="rm:MessageContentTypeType">
4792               <enumeration value="RequestReturn"/>
4793             </restriction>
4794           </simpleType>
4795         </element>
4796         <element name="MessageDescription" type="rm:MessageDescriptionType"
4797           minOccurs="0" maxOccurs="1"/>
4798         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4799         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4800           maxOccurs="1"/>
4801         <element name="IncidentInformation" type="rm:IncidentInformationType"
4802           minOccurs="0" maxOccurs="unbounded"/>
4803         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4804           maxOccurs="1"/>
4805         <element name="Funding" type="rm:FundingType" minOccurs="0"
4806           maxOccurs="unbounded"/>
4807         <element name="ContactInformation" type="rm:ContactInformationType"
4808           minOccurs="1" maxOccurs="unbounded"/>
4809         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4810           <complexType>
4811             <sequence>
4812               <element name="ResourceInfoElementID"
4813                 type="rm:ResourceInfoElementIDType"/>
4814               <element name="Resource">
4815                 <complexType>
4816                   <sequence>
4817                     <!-- One (or more) of first three elements is required -->
4818                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4819                       maxOccurs="1"/>
4820                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4821                       maxOccurs="1"/>
4822                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4823                       maxOccurs="1"/>
4824                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4825                       maxOccurs="1"/>
4826                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4827                       maxOccurs="unbounded"/>
4828                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4829                       maxOccurs="1"/>
4830                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4831                       maxOccurs="1"/>
4832                     <element name="Certifications" type="rm:CertificationsType"
4833                       minOccurs="0" maxOccurs="1"/>
4834                     <element name="SpecialRequirements"
4835                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4836                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4837                       minOccurs="0" maxOccurs="1"/>

```

```

4838     <element name="OwnershipInformation"
4839         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4840     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4841         <complexType>
4842             <sequence>
4843                 <element name="DeploymentStatus" type="rm:ValueListType"
4844                     minOccurs="0" maxOccurs="1"/>
4845                 <element name="Availability" type="rm:AvailabilityType"
4846                     minOccurs="0" maxOccurs="1"/>
4847             </sequence>
4848         </complexType>
4849     </element>
4850 </sequence>
4851 </complexType>
4852 </element>
4853 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4854     <complexType>
4855         <sequence>
4856             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4857                 maxOccurs="1"/>
4858             <element name="Restrictions" type="rm:RestrictionsType"
4859                 minOccurs="0" maxOccurs="1"/>
4860             <element name="AnticipatedFunction"
4861                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4862             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4863                 maxOccurs="1"/>
4864             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4865                 maxOccurs="1"/>
4866             <element name="AssignmentInstructions"
4867                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4868         </sequence>
4869     </complexType>
4870 </element>
4871 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4872     <complexType>
4873         <sequence>
4874             <element name="ScheduleType">
4875                 <simpleType>
4876                     <restriction base="rm:ScheduleTypeType">
4877                         <enumeration value="RequestedArrival"/>
4878                         <enumeration value="EstimatedArrival"/>
4879                         <enumeration value="ActualArrival"/>
4880                         <enumeration value="RequestedDeparture"/>
4881                         <enumeration value="EstimatedDeparture"/>
4882                         <enumeration value="ActualDeparture"/>
4883                         <enumeration value="RequestedReturnDeparture"/>
4884                         <enumeration value="RequestedReturnArrival"/>
4885                         <enumeration value="BeginAvailable"/>
4886                         <enumeration value="EndAvailable"/>
4887                         <enumeration value="Committed"/>
4888                         <enumeration value="ReportTo"/>
4889                         <enumeration value="Route"/>
4890                     </restriction>
4891                 </simpleType>
4892             </element>
4893             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4894                 maxOccurs="1"/>
4895             <element name="Location" type="rm:LocationType" minOccurs="0"
4896                 maxOccurs="1"/>
4897         </sequence>
4898     </complexType>
4899 </element>
4900 </sequence>
4901 </complexType>
4902 </element>
4903 </sequence>
4904 </complexType>
4905 </element>
4906 </schema>

```

A.12 ResponseToRequestReturn Message Schema

```

4908 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4909   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4910   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4911   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4912   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4913   elementFormDefault="qualified"
4914   attributeFormDefault="unqualified">
4915   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4916     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4917   <!-- This schema describes the structure of
4918     EDXL-RM "ResponseToRequestReturn" messages.-->
4919   <element name="ResponseToRequestReturn">
4920     <complexType>
4921       <sequence>
4922         <element name="MessageID" type="rm:MessageIDType"/>
4923         <element name="SentDateTime" type="rm:DateTimeType"/>
4924         <element name="MessageContentType">
4925           <simpleType>
4926             <restriction base="rm:MessageContentTypeType">
4927               <enumeration value="ResponseToRequestReturn"/>
4928             </restriction>
4929           </simpleType>
4930         </element>
4931         <element name="MessageDescription" type="rm:MessageDescriptionType"
4932           minOccurs="0" maxOccurs="1"/>
4933         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4934         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4935         <element name="IncidentInformation" type="rm:IncidentInformationType"
4936           minOccurs="0" maxOccurs="unbounded"/>
4937         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4938           maxOccurs="1"/>
4939         <element name="Funding" type="rm:FundingType" minOccurs="0"
4940           maxOccurs="unbounded"/>
4941         <element name="ContactInformation" type="rm:ContactInformationType"
4942           minOccurs="1" maxOccurs="unbounded"/>
4943         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4944           <complexType>
4945             <sequence>
4946               <element name="ResourceInfoElementID"
4947                 type="rm:ResourceInfoElementIDType"/>
4948               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4949               <element name="Resource" minOccurs="0" maxOccurs="1">
4950                 <complexType>
4951                   <sequence>
4952                     <!-- One (or more) of first three elements is required -->
4953                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4954                       maxOccurs="1"/>
4955                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4956                       maxOccurs="1"/>
4957                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4958                       maxOccurs="1"/>
4959                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4960                       maxOccurs="1"/>
4961                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4962                       maxOccurs="unbounded"/>
4963                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4964                       maxOccurs="1"/>
4965                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4966                       maxOccurs="1"/>
4967                     <element name="Certifications" type="rm:CertificationsType"
4968                       minOccurs="0" maxOccurs="1"/>
4969                     <element name="SpecialRequirements"
4970                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4971                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4972                       minOccurs="0" maxOccurs="1"/>
4973                     <element name="OwnershipInformation"
4974                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4975                     <element name="ResourceStatus">

```

```

4976         <complexType>
4977             <sequence>
4978                 <element name="DeploymentStatus" type="rm:ValueListType"/>
4979                 <element name="Availability" type="rm:AvailabilityType"/>
4980             </sequence>
4981         </complexType>
4982     </element>
4983 </sequence>
4984 </complexType>
4985 </element>
4986 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4987     <complexType>
4988         <sequence>
4989             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4990                 maxOccurs="1"/>
4991             <element name="Restrictions" type="rm:RestrictionsType"
4992                 minOccurs="0" maxOccurs="1"/>
4993             <element name="AnticipatedFunction"
4994                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4995             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4996                 maxOccurs="1"/>
4997             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4998                 maxOccurs="1"/>
4999             <element name="AssignmentInstructions"
5000                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5001         </sequence>
5002     </complexType>
5003 </element>
5004 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5005     <complexType>
5006         <sequence>
5007             <element name="ScheduleType">
5008                 <simpleType>
5009                     <restriction base="rm:ScheduleTypeType">
5010                         <enumeration value="ActualReturnDeparture"/>
5011                         <enumeration value="RequestedArrival"/>
5012                         <enumeration value="EstimatedArrival"/>
5013                         <enumeration value="ActualArrival"/>
5014                         <enumeration value="RequestedDeparture"/>
5015                         <enumeration value="EstimatedDeparture"/>
5016                         <enumeration value="ActualDeparture"/>
5017                         <enumeration value="RequestedReturnDeparture"/>
5018                         <enumeration value="RequestedReturnArrival"/>
5019                         <enumeration value="BeginAvailable"/>
5020                         <enumeration value="EndAvailable"/>
5021                         <enumeration value="Committed"/>
5022                         <enumeration value="ReportTo"/>
5023                         <enumeration value="EstimatedReturnDeparture"/>
5024                         <enumeration value="EstimatedReturnArrival"/>
5025                         <enumeration value="Route"/>
5026                         <enumeration value="Current"/>
5027                     </restriction>
5028                 </simpleType>
5029             </element>
5030             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5031                 maxOccurs="1"/>
5032             <element name="Location" type="rm:LocationType" minOccurs="0"
5033                 maxOccurs="1"/>
5034         </sequence>
5035     </complexType>
5036 </element>
5037 </sequence>
5038 </complexType>
5039 </element>
5040 </sequence>
5041 </complexType>
5042 </element>
5043 </schema>

```


A.13 RequestQuote Message Schema

```

5045 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5046   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5047   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5048   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5049   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5050   elementFormDefault="qualified"
5051   attributeFormDefault="unqualified">
5052   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5053     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5054   <!-- This schema describes the structure of
5055     EDXL-RM "RequestQuote" messages.-->
5056   <element name="RequestQuote">
5057     <complexType>
5058       <sequence>
5059         <element name="MessageID" type="rm:MessageIDType"/>
5060         <element name="SentDateTime" type="rm:DateTimeType"/>
5061         <element name="MessageContentType">
5062           <simpleType>
5063             <restriction base="rm:MessageContentTypeType">
5064               <enumeration value="RequestQuote"/>
5065             </restriction>
5066           </simpleType>
5067         </element>
5068         <element name="MessageDescription" type="rm:MessageDescriptionType"
5069           minOccurs="0" maxOccurs="1"/>
5070         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5071         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5072           maxOccurs="1"/>
5073         <element name="IncidentInformation" type="rm:IncidentInformationType"
5074           minOccurs="0" maxOccurs="unbounded"/>
5075         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5076           maxOccurs="1"/>
5077         <element name="Funding" type="rm:FundingType" minOccurs="0"
5078           maxOccurs="unbounded"/>
5079         <element name="ContactInformation" type="rm:ContactInformationType"
5080           minOccurs="1" maxOccurs="unbounded"/>
5081         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5082           <complexType>
5083             <sequence>
5084               <element name="ResourceInfoElementID"
5085                 type="rm:ResourceInfoElementIDType"/>
5086               <element name="ResponseInformation" type="rm:ResponseInformationType"
5087                 minOccurs="0" maxOccurs="1"/>
5088               <element name="Resource">
5089                 <complexType>
5090                   <sequence>
5091                     <!-- One (or more) of first three elements is required -->
5092                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5093                       maxOccurs="1"/>
5094                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5095                       maxOccurs="1"/>
5096                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5097                       maxOccurs="1"/>
5098                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5099                       maxOccurs="1"/>
5100                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5101                       maxOccurs="unbounded"/>
5102                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5103                       maxOccurs="1"/>
5104                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5105                       maxOccurs="1"/>
5106                     <element name="Certifications" type="rm:CertificationsType"
5107                       minOccurs="0" maxOccurs="1"/>
5108                     <element name="SpecialRequirements"
5109                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5110                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5111                       minOccurs="0" maxOccurs="1"/>
5112                     <element name="OwnershipInformation"

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```

5113         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5114     </sequence>
5115 </complexType>
5116 </element>
5117 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5118     <complexType>
5119         <sequence>
5120             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5121                 maxOccurs="1"/>
5122             <element name="Restrictions" type="rm:RestrictionsType"
5123                 minOccurs="0" maxOccurs="1"/>
5124             <element name="AnticipatedFunction"
5125                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5126             <element name="AssignmentInstructions"
5127                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5128         </sequence>
5129     </complexType>
5130 </element>
5131 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5132     <complexType>
5133         <sequence>
5134             <element name="ScheduleType">
5135                 <simpleType>
5136                     <restriction base="rm:ScheduleTypeType">
5137                         <enumeration value="RequestedArrival"/>
5138                         <enumeration value="RequestedDeparture"/>
5139                         <enumeration value="EstimatedReturnDeparture"/>
5140                         <enumeration value="EstimatedReturnArrival"/>
5141                         <enumeration value="ReportTo"/>
5142                         <enumeration value="Route"/>
5143                     </restriction>
5144                 </simpleType>
5145             </element>
5146             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5147                 maxOccurs="1"/>
5148             <element name="Location" type="rm:LocationType" minOccurs="0"
5149                 maxOccurs="1"/>
5150         </sequence>
5151     </complexType>
5152 </element>
5153 </sequence>
5154 </complexType>
5155 </element>
5156 </sequence>
5157 </complexType>
5158 </element>
5159 </schema>

```

5160 A.14 ResponseToRequestQuote Message Schema

```

5161 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5162     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5163     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5164     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5165     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5166     elementFormDefault="qualified"
5167     attributeFormDefault="unqualified">
5168     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5169         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5170     <!-- This schema describes the structure of
5171         EDXL-RM "ResponseToRequestQuote" messages.-->
5172     <element name="ResponseToRequestQuote">
5173         <complexType>
5174             <sequence>
5175                 <element name="MessageID" type="rm:MessageIDType"/>
5176                 <element name="SentDateTime" type="rm:DateTimeType"/>
5177                 <element name="MessageContentType">
5178                     <simpleType>
5179                         <restriction base="rm:MessageContentTypeType">

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```

5180         <enumeration value="ResponseToRequestQuote"/>
5181     </restriction>
5182 </simpleType>
5183 </element>
5184 <element name="MessageDescription" type="rm:MessageDescriptionType"
5185     minOccurs="0" maxOccurs="1"/>
5186 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5187 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5188 <element name="IncidentInformation" type="rm:IncidentInformationType"
5189     minOccurs="0" maxOccurs="unbounded"/>
5190 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5191     maxOccurs="1"/>
5192 <element name="Funding" type="rm:FundingType" minOccurs="0"
5193     maxOccurs="unbounded"/>
5194 <element name="ContactInformation" type="rm:ContactInformationType"
5195     minOccurs="1" maxOccurs="unbounded"/>
5196 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5197     <complexType>
5198         <sequence>
5199             <element name="ResourceInfoElementID"
5200                 type="rm:ResourceInfoElementIDType"/>
5201             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5202             <element name="Resource" minOccurs="0" maxOccurs="1">
5203                 <complexType>
5204                     <sequence>
5205                         <!-- One (or more) of first three elements is required -->
5206                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5207                             maxOccurs="1"/>
5208                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5209                             maxOccurs="1"/>
5210                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5211                             maxOccurs="1"/>
5212                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5213                             maxOccurs="1"/>
5214                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5215                             maxOccurs="unbounded"/>
5216                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
5217                             maxOccurs="1"/>
5218                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5219                             maxOccurs="1"/>
5220                         <element name="Certifications" type="rm:CertificationsType"
5221                             minOccurs="0" maxOccurs="1"/>
5222                         <element name="SpecialRequirements"
5223                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5224                         <element name="ResponsibleParty" type="rm:ContactInformationType"
5225                             minOccurs="0" maxOccurs="1"/>
5226                         <element name="OwnershipInformation"
5227                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5228                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5229                             <complexType>
5230                                 <sequence>
5231                                     <element name="InventoryRefreshDateTime"
5232                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5233                                     <element name="DeploymentStatus" type="rm:ValueListType"
5234                                         minOccurs="0" maxOccurs="1"/>
5235                                     <element name="Availability" type="rm:AvailabilityType"
5236                                         minOccurs="0" maxOccurs="1"/>
5237                                 </sequence>
5238                             </complexType>
5239                         </element>
5240                     </sequence>
5241                 </complexType>
5242             </element>
5243             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5244                 <complexType>
5245                     <sequence>
5246                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5247                             maxOccurs="1"/>
5248                         <element name="Restrictions" type="rm:RestrictionsType"
5249                             minOccurs="0" maxOccurs="1"/>

```

```

5250         <element name="AnticipatedFunction"
5251             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5252         <element name="PriceQuote" type="rm:PriceQuoteType"/>
5253         <element name="AssignmentInstructions"
5254             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5255     </sequence>
5256 </complexType>
5257 </element>
5258 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5259     <complexType>
5260         <sequence>
5261             <element name="ScheduleType">
5262                 <simpleType>
5263                     <restriction base="rm:ScheduleTypeType">
5264                         <enumeration value="EstimatedArrival"/>
5265                         <enumeration value="EstimatedDeparture"/>
5266                         <enumeration value="RequestedReturnDeparture"/>
5267                         <enumeration value="RequestedReturnArrival"/>
5268                         <enumeration value="BeginAvailable"/>
5269                         <enumeration value="EndAvailable"/>
5270                         <enumeration value="RequestedArrival"/>
5271                         <enumeration value="RequestedDeparture"/>
5272                         <enumeration value="EstimatedReturnDeparture"/>
5273                         <enumeration value="EstimatedReturnArrival"/>
5274                         <enumeration value="ReportTo"/>
5275                         <enumeration value="Route"/>
5276                     </restriction>
5277                 </simpleType>
5278             </element>
5279             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5280                 maxOccurs="1"/>
5281             <element name="Location" type="rm:LocationType" minOccurs="0"
5282                 maxOccurs="1"/>
5283         </sequence>
5284     </complexType>
5285 </element>
5286 </sequence>
5287 </complexType>
5288 </element>
5289 </sequence>
5290 </complexType>
5291 </element>
5292 </schema>

```

5293 A.15 RequestResourceDeploymentStatus Message Schema

```

5294 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5295     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5296     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5297     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5298     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5299     elementFormDefault="qualified"
5300     attributeFormDefault="unqualified">
5301     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5302         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5303     <!-- This schema describes the structure of
5304         EDXL-RM "RequestResourceDeploymentStatus" messages.-->
5305     <element name="RequestResourceDeploymentStatus">
5306         <complexType>
5307             <sequence>
5308                 <element name="MessageID" type="rm:MessageIDType"/>
5309                 <element name="SentDateTime" type="rm:DateTimeType"/>
5310                 <element name="MessageContentType">
5311                     <simpleType>
5312                         <restriction base="rm:MessageContentTypeType">
5313                             <enumeration value="RequestResourceDeploymentStatus"/>
5314                         </restriction>
5315                     </simpleType>
5316                 </element>

```

```

5317 <element name="MessageDescription" type="rm:MessageDescriptionType"
5318 minOccurs="0" maxOccurs="1"/>
5319 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5320 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5321 maxOccurs="1"/>
5322 <element name="IncidentInformation" type="rm:IncidentInformationType"
5323 minOccurs="0" maxOccurs="unbounded"/>
5324 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5325 maxOccurs="1"/>
5326 <element name="Funding" type="rm:FundingType" minOccurs="0"
5327 maxOccurs="unbounded"/>
5328 <element name="ContactInformation" type="rm:ContactInformationType"
5329 minOccurs="1" maxOccurs="unbounded"/>
5330 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5331 <complexType>
5332 <sequence>
5333 <element name="ResourceInfoElementID"
5334 type="rm:ResourceInfoElementIDType"/>
5335 <element name="Resource">
5336 <complexType>
5337 <sequence>
5338 <!-- One (or more) of first three elements is required -->
5339 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5340 maxOccurs="1"/>
5341 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5342 maxOccurs="1"/>
5343 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5344 maxOccurs="1"/>
5345 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5346 maxOccurs="1"/>
5347 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5348 maxOccurs="unbounded"/>
5349 <element name="Description" type="rm:DescriptionType" minOccurs="0"
5350 maxOccurs="1"/>
5351 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5352 maxOccurs="1"/>
5353 <element name="Certifications" type="rm:CertificationsType"
5354 minOccurs="0" maxOccurs="1"/>
5355 <element name="SpecialRequirements"
5356 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5357 <element name="ResponsibleParty" type="rm:ContactInformationType"
5358 minOccurs="0" maxOccurs="1"/>
5359 <element name="OwnershipInformation"
5360 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5361 </sequence>
5362 </complexType>
5363 </element>
5364 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5365 <complexType>
5366 <sequence>
5367 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5368 maxOccurs="1"/>
5369 <element name="Restrictions" type="rm:RestrictionsType"
5370 minOccurs="0" maxOccurs="1"/>
5371 <element name="AnticipatedFunction"
5372 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5373 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5374 maxOccurs="1"/>
5375 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5376 maxOccurs="1"/>
5377 <element name="AssignmentInstructions"
5378 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5379 </sequence>
5380 </complexType>
5381 </element>
5382 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5383 <complexType>
5384 <sequence>
5385 <element name="ScheduleType">
5386 <simpleType>
5387 <restriction base="rm:ScheduleTypeType">

```

```

5388         <enumeration value="RequestedArrival"/>
5389         <enumeration value="EstimatedArrival"/>
5390         <enumeration value="ActualArrival"/>
5391         <enumeration value="RequestedDeparture"/>
5392         <enumeration value="EstimatedDeparture"/>
5393         <enumeration value="ActualDeparture"/>
5394         <enumeration value="RequestedReturnDeparture"/>
5395         <enumeration value="EstimatedReturnDeparture"/>
5396         <enumeration value="ActualReturnDeparture"/>
5397         <enumeration value="RequestedReturnArrival"/>
5398         <enumeration value="EstimatedReturnArrival"/>
5399         <enumeration value="ActualReturnArrival"/>
5400         <enumeration value="BeginAvailable"/>
5401         <enumeration value="EndAvailable"/>
5402         <enumeration value="Committed"/>
5403         <enumeration value="ReportTo"/>
5404         <enumeration value="Route"/>
5405     </restriction>
5406 </simpleType>
5407 </element>
5408 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5409     maxOccurs="1"/>
5410 <element name="Location" type="rm:LocationType" minOccurs="0"
5411     maxOccurs="1"/>
5412 </sequence>
5413 </complexType>
5414 </element>
5415 </sequence>
5416 </complexType>
5417 </element>
5418 </sequence>
5419 </complexType>
5420 </element>
5421 </schema>

```

5422 A.16 ReportResourceDeploymentStatus Message Schema

```

5423 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5424     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5425     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5426     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5427     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5428     elementFormDefault="qualified"
5429     attributeFormDefault="unqualified">
5430 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5431     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5432 <!-- This schema describes the structure of
5433     EDXL-RM "ReportResourceDeploymentStatus" messages.-->
5434 <element name="ReportResourceDeploymentStatus">
5435     <complexType>
5436         <sequence>
5437             <element name="MessageID" type="rm:MessageIDType"/>
5438             <element name="SentDateTime" type="rm:DateTimeType"/>
5439             <element name="MessageContentType">
5440                 <simpleType>
5441                     <restriction base="rm:MessageContentTypeType">
5442                         <enumeration value="ReportResourceDeploymentStatus"/>
5443                     </restriction>
5444                 </simpleType>
5445             </element>
5446             <element name="MessageDescription" type="rm:MessageDescriptionType"
5447                 minOccurs="0" maxOccurs="1"/>
5448             <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5449             <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5450                 maxOccurs="1"/>
5451             <element name="IncidentInformation" type="rm:IncidentInformationType"
5452                 minOccurs="0" maxOccurs="unbounded"/>
5453             <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5454                 maxOccurs="1"/>

```

```

5455 <element name="Funding" type="rm:FundingType" minOccurs="0"
5456     maxOccurs="unbounded" />
5457 <element name="ContactInformation" type="rm:ContactInformationType"
5458     minOccurs="1" maxOccurs="unbounded" />
5459 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5460     <complexType>
5461         <sequence>
5462             <element name="ResourceInfoElementID"
5463                 type="rm:ResourceInfoElementIDType" />
5464             <element name="ResponseInformation" type="rm:ResponseInformationType"
5465                 minOccurs="0" maxOccurs="1" />
5466             <element name="Resource" minOccurs="0" maxOccurs="1">
5467                 <complexType>
5468                     <sequence>
5469                         <!-- One (or more) of first three elements is required -->
5470                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5471                             maxOccurs="1" />
5472                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5473                             maxOccurs="1" />
5474                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5475                             maxOccurs="1" />
5476                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5477                             maxOccurs="1" />
5478                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5479                             maxOccurs="unbounded" />
5480                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
5481                             maxOccurs="1" />
5482                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5483                             maxOccurs="1" />
5484                         <element name="Certifications" type="rm:CertificationsType"
5485                             minOccurs="0" maxOccurs="1" />
5486                         <element name="SpecialRequirements"
5487                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1" />
5488                         <element name="ResponsibleParty" type="rm:ContactInformationType"
5489                             minOccurs="0" maxOccurs="1" />
5490                         <element name="OwnershipInformation"
5491                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1" />
5492                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5493                             <complexType>
5494                                 <sequence>
5495                                     <element name="InventoryRefreshDateTime"
5496                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1" />
5497                                     <element name="DeploymentStatus" type="rm:ValueListType"
5498                                         minOccurs="0" maxOccurs="1" />
5499                                     <element name="Availability" type="rm:AvailabilityType"
5500                                         minOccurs="0" maxOccurs="1" />
5501                                 </sequence>
5502                             </complexType>
5503                         </element>
5504                     </sequence>
5505                 </complexType>
5506             </element>
5507             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5508                 <complexType>
5509                     <sequence>
5510                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5511                             maxOccurs="1" />
5512                         <element name="Restrictions" type="rm:RestrictionsType"
5513                             minOccurs="0" maxOccurs="1" />
5514                         <element name="AnticipatedFunction"
5515                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1" />
5516                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5517                             maxOccurs="1" />
5518                         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5519                             maxOccurs="1" />
5520                         <element name="AssignmentInstructions"
5521                             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1" />
5522                     </sequence>
5523                 </complexType>
5524             </element>
5525             <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">

```

```

5526     <complexType>
5527         <sequence>
5528             <element name="ScheduleType">
5529                 <simpleType>
5530                     <restriction base="rm:ScheduleTypeType">
5531                         <enumeration value="RequestedArrival"/>
5532                         <enumeration value="EstimatedArrival"/>
5533                         <enumeration value="ActualArrival"/>
5534                         <enumeration value="RequestedDeparture"/>
5535                         <enumeration value="EstimatedDeparture"/>
5536                         <enumeration value="ActualDeparture"/>
5537                         <enumeration value="RequestedReturnDeparture"/>
5538                         <enumeration value="EstimatedReturnDeparture"/>
5539                         <enumeration value="ActualReturnDeparture"/>
5540                         <enumeration value="RequestedReturnArrival"/>
5541                         <enumeration value="EstimatedReturnArrival"/>
5542                         <enumeration value="ActualReturnArrival"/>
5543                         <enumeration value="BeginAvailable"/>
5544                         <enumeration value="EndAvailable"/>
5545                         <enumeration value="Committed"/>
5546                         <enumeration value="Current"/>
5547                         <enumeration value="ReportTo"/>
5548                         <enumeration value="Route"/>
5549                     </restriction>
5550                 </simpleType>
5551             </element>
5552             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5553                 maxOccurs="1"/>
5554             <element name="Location" type="rm:LocationType" minOccurs="0"
5555                 maxOccurs="1"/>
5556         </sequence>
5557     </complexType>
5558 </element>
5559 </sequence>
5560 </complexType>
5561 </element>
5562 </sequence>
5563 </complexType>
5564 </element>
5565 </schema>

```

5566

A.17 Request Extended Deployment Duration Message Schema

```

5568 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5569   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5570   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5571   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5572   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5573   elementFormDefault="qualified"
5574   attributeFormDefault="unqualified">
5575   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5576     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5577   <!-- This schema describes the structure of
5578     EDXL-RM "RequestExtendedDeploymentDuration" messages.-->
5579   <element name="RequestExtendedDeploymentDuration">
5580     <complexType>
5581       <sequence>
5582         <element name="MessageID" type="rm:MessageIDType"/>
5583         <element name="SentDateTime" type="rm:DateTimeType"/>
5584         <element name="MessageContentType">
5585           <simpleType>
5586             <restriction base="rm:MessageContentTypeType">
5587               <enumeration value="RequestExtendedDeploymentDuration"/>
5588             </restriction>
5589           </simpleType>
5590         </element>
5591         <element name="MessageDescription" type="rm:MessageDescriptionType"
5592           minOccurs="0" maxOccurs="1"/>
5593         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5594         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5595           maxOccurs="1"/>
5596         <element name="IncidentInformation" type="rm:IncidentInformationType"
5597           minOccurs="0" maxOccurs="unbounded"/>
5598         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5599           maxOccurs="1"/>
5600         <element name="Funding" type="rm:FundingType" minOccurs="0"
5601           maxOccurs="unbounded"/>
5602         <element name="ContactInformation" type="rm:ContactInformationType"
5603           minOccurs="1" maxOccurs="unbounded"/>
5604         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5605           <complexType>
5606             <sequence>
5607               <element name="ResourceInfoElementID"
5608                 type="rm:ResourceInfoElementIDType"/>
5609               <element name="Resource">
5610                 <complexType>
5611                   <sequence>
5612                     <!-- One (or more) of first three elements is required -->
5613                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5614                       maxOccurs="1"/>
5615                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5616                       maxOccurs="1"/>
5617                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5618                       maxOccurs="1"/>
5619                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5620                       maxOccurs="1"/>
5621                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5622                       maxOccurs="unbounded"/>
5623                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5624                       maxOccurs="1"/>
5625                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5626                       maxOccurs="1"/>
5627                     <element name="Certifications" type="rm:CertificationsType"
5628                       minOccurs="0" maxOccurs="1"/>
5629                     <element name="SpecialRequirements"
5630                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5631                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5632                       minOccurs="0" maxOccurs="1"/>
5633                     <element name="OwnershipInformation"

```

```

5634         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5635     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5636         <complexType>
5637             <sequence>
5638                 <element name="DeploymentStatus" type="rm:ValueListType"
5639                     minOccurs="0" maxOccurs="1"/>
5640                 <element name="Availability" type="rm:AvailabilityType"
5641                     minOccurs="0" maxOccurs="1"/>
5642             </sequence>
5643         </complexType>
5644     </element>
5645 </sequence>
5646 </complexType>
5647 </element>
5648 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5649     <complexType>
5650         <sequence>
5651             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5652                 maxOccurs="1"/>
5653             <element name="Restrictions" type="rm:RestrictionsType"
5654                 minOccurs="0" maxOccurs="1"/>
5655             <element name="AnticipatedFunction"
5656                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5657             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5658                 maxOccurs="1"/>
5659             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5660                 maxOccurs="1"/>
5661         </sequence>
5662     </complexType>
5663 </element>
5664 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5665     <complexType>
5666         <sequence>
5667             <element name="ScheduleType">
5668                 <simpleType>
5669                     <restriction base="rm:ScheduleTypeType">
5670                         <enumeration value="RequestedArrival"/>
5671                         <enumeration value="EstimatedArrival"/>
5672                         <enumeration value="ActualArrival"/>
5673                         <enumeration value="RequestedDeparture"/>
5674                         <enumeration value="EstimatedDeparture"/>
5675                         <enumeration value="ActualDeparture"/>
5676                         <enumeration value="RequestedReturnArrival"/>
5677                         <enumeration value="Committed"/>
5678                         <enumeration value="ReportTo"/>
5679                         <enumeration value="RequestedReturnDeparture"/>
5680                         <enumeration value="EstimatedReturnDeparture"/>
5681                         <enumeration value="EstimatedReturnArrival"/>
5682                         <enumeration value="Route"/>
5683                     </restriction>
5684                 </simpleType>
5685             </element>
5686             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5687                 maxOccurs="1"/>
5688             <element name="Location" type="rm:LocationType" minOccurs="0"
5689                 maxOccurs="1"/>
5690         </sequence>
5691     </complexType>
5692 </element>
5693 </sequence>
5694 </complexType>
5695 </element>
5696 </sequence>
5697 </complexType>
5698 </element>
5699 </schema>

```

5700
5701

A.18 ResponseToRequestExtendedDeploymentDuration Message Schema

```
5702 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5703   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5704   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5705   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5706   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5707   elementFormDefault="qualified"
5708   attributeFormDefault="unqualified">
5709   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5710     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5711   <!-- This schema describes the structure of
5712     EDXL-RM "ResponseToRequestExtendedDeploymentDuration" messages.-->
5713   <element name="ResponseToRequestExtendedDeploymentDuration">
5714     <complexType>
5715       <sequence>
5716         <element name="MessageID" type="rm:MessageIDType"/>
5717         <element name="SentDateTime" type="rm:DateTimeType"/>
5718         <element name="MessageContentType">
5719           <simpleType>
5720             <restriction base="rm:MessageContentTypeType">
5721               <enumeration value="ResponseToRequestExtendedDeploymentDuration"/>
5722             </restriction>
5723           </simpleType>
5724         </element>
5725         <element name="MessageDescription" type="rm:MessageDescriptionType"
5726           minOccurs="0" maxOccurs="1"/>
5727         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5728         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5729         <element name="IncidentInformation" type="rm:IncidentInformationType"
5730           minOccurs="0" maxOccurs="unbounded"/>
5731         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5732           maxOccurs="1"/>
5733         <element name="Funding" type="rm:FundingType" minOccurs="0"
5734           maxOccurs="unbounded"/>
5735         <element name="ContactInformation" type="rm:ContactInformationType"
5736           minOccurs="1" maxOccurs="unbounded"/>
5737         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5738           <complexType>
5739             <sequence>
5740               <element name="ResourceInfoElementID"
5741                 type="rm:ResourceInfoElementIDType"/>
5742               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5743               <element name="Resource" minOccurs="0" maxOccurs="1">
5744                 <complexType>
5745                   <sequence>
5746                     <!-- One (or more) of first three elements is required -->
5747                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5748                       maxOccurs="1"/>
5749                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5750                       maxOccurs="1"/>
5751                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5752                       maxOccurs="1"/>
5753                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5754                       maxOccurs="1"/>
5755                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5756                       maxOccurs="unbounded"/>
5757                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5758                       maxOccurs="1"/>
5759                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5760                       maxOccurs="1"/>
5761                     <element name="Certifications" type="rm:CertificationsType"
5762                       minOccurs="0" maxOccurs="1"/>
5763                     <element name="SpecialRequirements"
5764                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5765                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5766                       minOccurs="0" maxOccurs="1"/>
5767                     <element name="OwnershipInformation"
```

```

5768         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5769     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5770         <complexType>
5771             <sequence>
5772                 <element name="DeploymentStatus" type="rm:ValueListType"
5773                     minOccurs="0" maxOccurs="1"/>
5774                 <element name="Availability" type="rm:AvailabilityType"
5775                     minOccurs="0" maxOccurs="1"/>
5776             </sequence>
5777         </complexType>
5778     </element>
5779 </sequence>
5780 </complexType>
5781 </element>
5782 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5783     <complexType>
5784         <sequence>
5785             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5786                 maxOccurs="1"/>
5787             <element name="Restrictions" type="rm:RestrictionsType"
5788                 minOccurs="0" maxOccurs="1"/>
5789             <element name="AnticipatedFunction"
5790                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5791             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5792                 maxOccurs="1"/>
5793             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5794                 maxOccurs="1"/>
5795             <element name="AssignmentInstructions"
5796                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5797         </sequence>
5798     </complexType>
5799 </element>
5800 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5801     <complexType>
5802         <sequence>
5803             <element name="ScheduleType">
5804                 <simpleType>
5805                     <restriction base="rm:ScheduleTypeType">
5806                         <enumeration value="EndAvailable"/>
5807                         <enumeration value="RequestedArrival"/>
5808                         <enumeration value="EstimatedArrival"/>
5809                         <enumeration value="ActualArrival"/>
5810                         <enumeration value="RequestedDeparture"/>
5811                         <enumeration value="EstimatedDeparture"/>
5812                         <enumeration value="ActualDeparture"/>
5813                         <enumeration value="RequestedReturnArrival"/>
5814                         <enumeration value="Committed"/>
5815                         <enumeration value="ReportTo"/>
5816                         <enumeration value="RequestedReturnDeparture"/>
5817                         <enumeration value="EstimatedReturnDeparture"/>
5818                         <enumeration value="EstimatedReturnArrival"/>
5819                         <enumeration value="Route"/>
5820                     </restriction>
5821                 </simpleType>
5822             </element>
5823             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5824                 maxOccurs="1"/>
5825             <element name="Location" type="rm:LocationType" minOccurs="0"
5826                 maxOccurs="1"/>
5827         </sequence>
5828     </complexType>
5829 </element>
5830 </sequence>
5831 </complexType>
5832 </element>
5833 </sequence>
5834 </complexType>
5835 </element>
5836 </schema>

```

5837 **A.19 Acknowledgements**

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- 5842 Art Botterell, Individual
- 5843 Rex Brooks, Individual
- 5844 Kurt Buehler, Associate Member
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- 5846 Eliot Christian, US Department of the Interior
- 5847 Mr. David Danko, ESRI
- 5848 Mr. Sukumar Dwarkanath, Associate Member
- 5849 David Ellis, Individual
- 5850 Jack Fox, US Department of Homeland Security
- 5851 Tim Grapes, Evolution Technologies Inc.
- 5852 Gary Ham, Individual
- 5853 Adam Hocek, Associate Member
- 5854 Dr. Renato Iannella, NICTA
- 5855 Mrs. Elysa Jones, Warning Systems, Inc.
- 5856 Mr. David Kehrlein, ESRI
- 5857 Mr. Jeff Kyser, Warning Systems, Inc.
- 5858 Ron Lake, Galdos Systems Inc.
- 5859 Mr. Tom Merkle, Lockheed Martin
- 5860 Mr. Enoch Moses, ManTech Enterprise Integration Center (e-IC)
- 5861 Michelle Raymond, Associate Member
- 5862 Dr. Carl Reed, Open Geospatial Consortium, Inc. (OGC)
- 5863 Ms. Julia Ridgely, Individual
- 5864 Dr. Karen Robinson, NICTA
- 5865 Mr. Anthony Sangha, Raining Data Corporation
- 5866 Mr. Josh Shows, ESI Acquisition, Inc.
- 5867 Aviv Siegel, Athoc, Inc.
- 5868 Mr. Bryan Small, ESI Acquisition, Inc.
- 5869 Dr. Aaron Temin, Individual
- 5870 Lee Tincher, Evolution Technologies Inc.
- 5871 Mr. Tom Wall, Evolution Technologies Inc.
- 5872 Ms. Sylvia Webb, Individual

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B. Revision History

5875 [optional; should not be included in OASIS Standards]

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Revision	Date	Editor	Changes Made
[Rev number]	[Rev Date]	[Modified By]	[Summary of Changes]

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5878