



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

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Technical Committee:

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Editor(s):

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Rex Brooks, Individual
Tim Grapes, DHS Disaster Management Interoperability Service
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Dr. Karen Robinson, National ICT Australia (NICTA)
Werner Joerg, IEM, Inc
Alessandro Triglia, OSS Nokalva, Inc

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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:

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

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1 Introduction

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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164 [oc](http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.doc), August 2005

165 **[EDXL-RM SRS]** *EDXL Resource Messaging Standard Requirements Supplement*, workgroup
166 [http://www.oasis-](http://www.oasis-open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc)
167 [open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.](http://www.oasis-open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc)
168 [doc](http://www.oasis-open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc), October 19, 2005

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

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

174 **[ISO 4217 codes]** *ISO 4217 currency names and code elements*,
175 [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)
176 [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)

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

180

181

182

2 Design Principles and Concepts (non-normative)

183

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

- 185 • Provide a standard message format for the Resource Message
- 186 • Provide separate specific formats for the distinct Resource Message Types
- 187 • Enable dissemination of messages based on geographic delivery area
- 188 • Use and reuse of data content and models developed by other initiatives
- 189 • Business process-driven specific messaging needs across emergency professions
- 190 • Supporting everyday events and incident preparedness, as well as disasters
- 191 • Facilitate emergency information sharing and data exchange across the local, state, tribal,
- 192 national and non-governmental organizations of different professions that provide emergency
- 193 response and management services

2.1 Requirements for Design

194

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

197

198 *EDXL Resource Messaging Standard Requirements Supplement*, workgroup

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

201

202 In summary, the EDXL Resource Messaging specification should

- 203 1. Define a detailed message structure for the following specific EDXL Resource Message
204 Types: (Note that requirements that are self-evident from Message Type names are not
205 separately listed)
 - 206 a. RequestResource
 - 207 b. ResponseToRequestResource
 - 208 c. RequisitionResource
 - 209 d. CommitResource
 - 210 e. RequestInformation
 - 211 f. ResponseToRequestInformation
 - 212 g. OfferUnsolicitedResource
 - 213 h. ReleaseResource
 - 214 i. RequestReturn
 - 215 j. ResponseToRequestReturn
 - 216 k. RequestQuote
 - 217 l. ResponseToRequestQuote
 - 218 m. RequestResourceDeploymentStatus
 - 219 n. ReportResourceDeploymentStatus
 - 220 o. RequestExtendedDeploymentDuration
 - 221 p. ResponseToRequestExtendedDeploymentDuration
- 222 2. Explicitly specify use of EDXL-DE as the routing mechanism for the EDXL Resource
223 Message
- 224 3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice
225 of Resource demobilization and the ability to communicate information to provide for
226 returning Resource
- 227 4. Provide ability to accept or decline in a ResponseToRequestResource that indicates
228 availability of the requested Resource or to accept or decline to an OfferUnsolicitedResource

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

245 **2.2 Distribution of EDXL-RM**

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

251 **2.2.1 EDXL DISTRIBUTION ELEMENT (EDXL-DE)**

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

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

262 **2.2.2 EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION**

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

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

272 **2.3 Example Usage Scenarios**

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

276 **2.3.1 SAFECOM Explosion**

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

282 Full use case available: [http://www.oasis-
283 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)

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

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

291 **2.3.2 Cedar Fire Incident**

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

300 Full use case available: [http://www.oasis-
301 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)

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

- 303
- 304 1. Final Draft_ 2003 SD Co Fire Safety Review-no pics.pdf [http://www.oasis-
305 open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire
306 %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)
307
 - 308 2. Cedar Fire SDFD.pdf [http://www.oasis-
309 open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf](http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf)
310
 - 311 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%20Fi
312 re%202003.pdf)
315
316 Firestorm 2003 Case Study – Final.pdf [http://www.oasis-
open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-
%20Final.pdf](http://www.oasis-open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-
317 %20Final.pdf)

318 **2.3.3 Hurricane**

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

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

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

330 **2.3.4 Pandemic Influenza**

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

337 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGr)
338 [open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGr](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGr)
339 [ahmRev.doc](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGr)
340

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3 EDXL Resource Messaging Model (Normative unless otherwise stated)

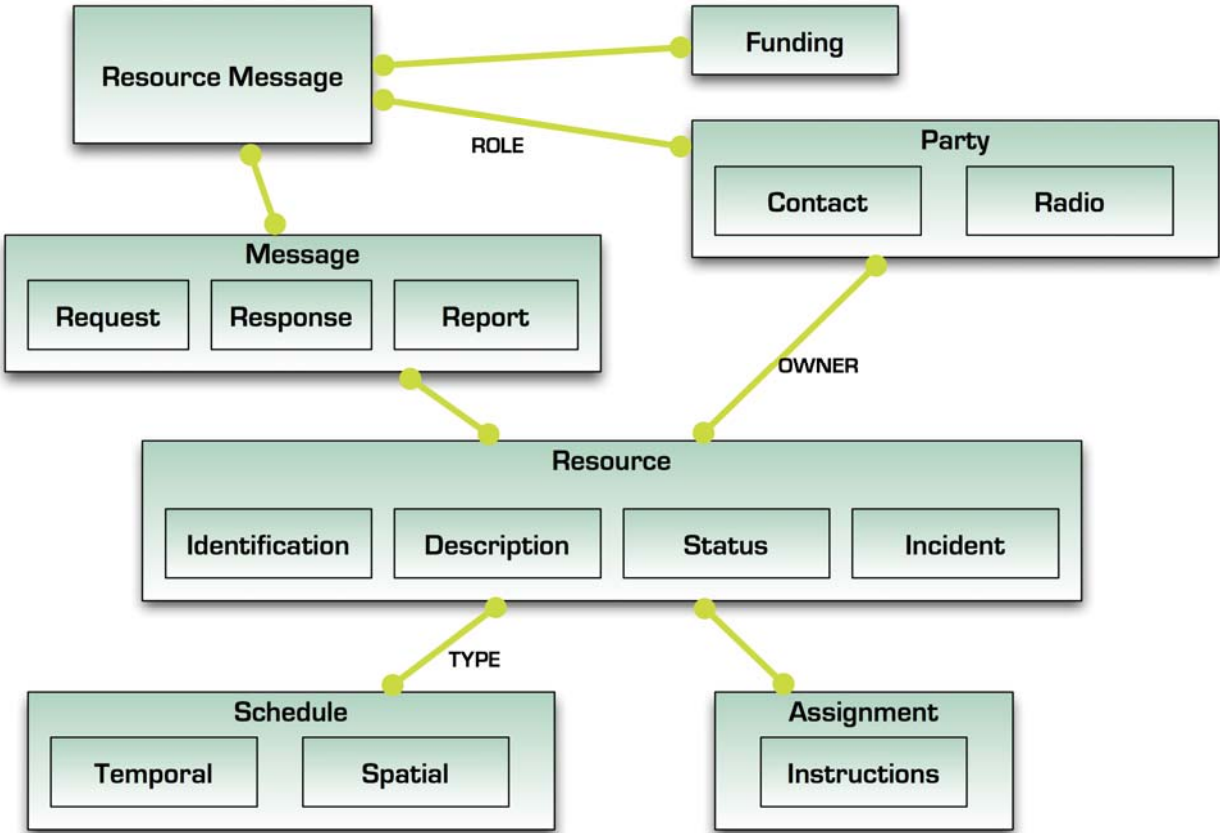
Section 3 of this Standard is normative unless otherwise stated. If any differences are found between any XML schema and its associated model, diagram, table or other artifact or text, then the XML schema shall always take precedence and the other artifact(s) must be changed to match the XML schema.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

356



357
358
359

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.

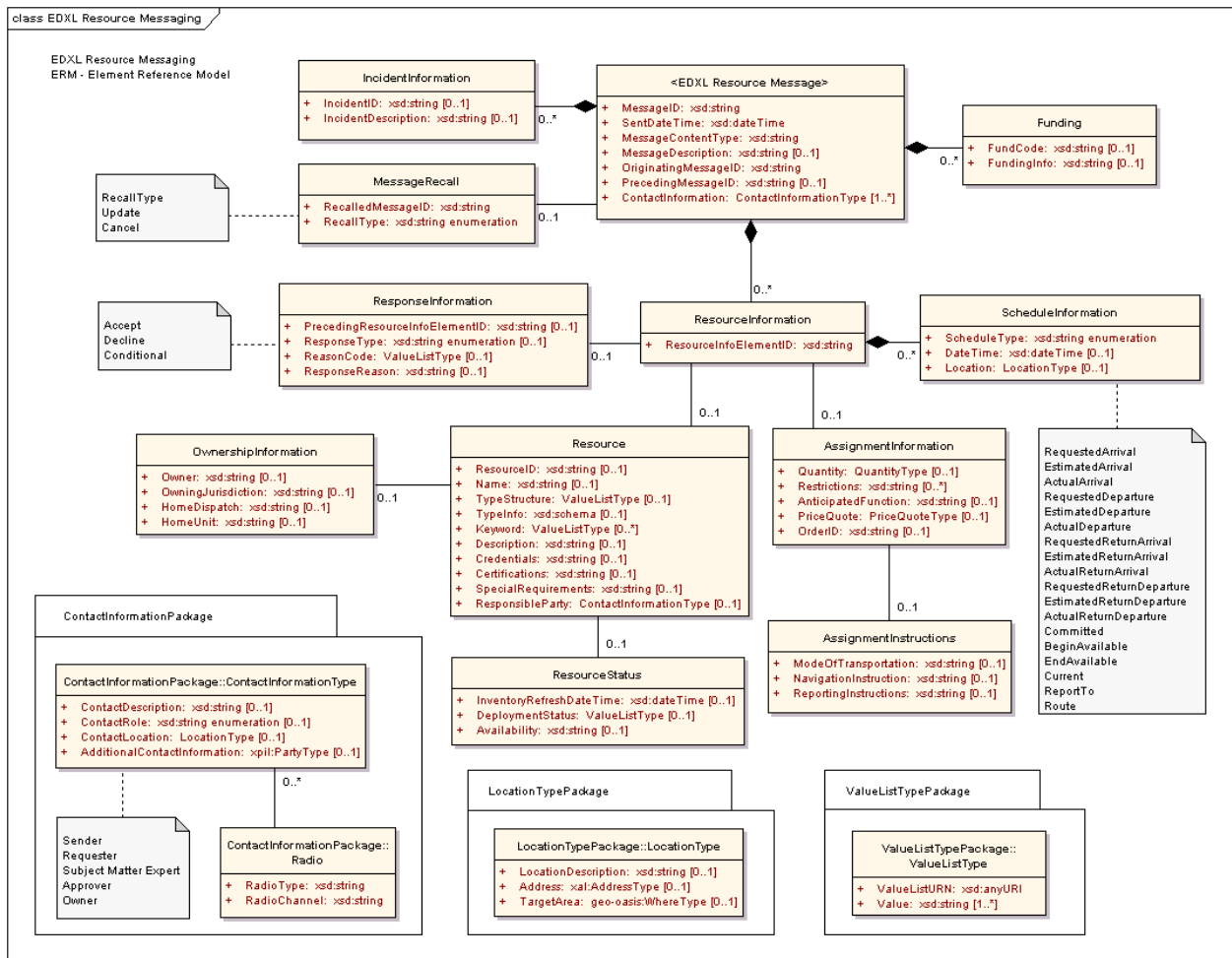
364 A Resource may also have information about its Assignment including the identified Incident and
365 Instructions related to the incident assignment.

366 **3.2 Element Reference Model**

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

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

372



373

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

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

377 **3.3 Resource Message Types**

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

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

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

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

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

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

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.	Both
ReportResourceDeploymentStatus	Message used to report on the current "status" of any resource.	Both
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

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

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

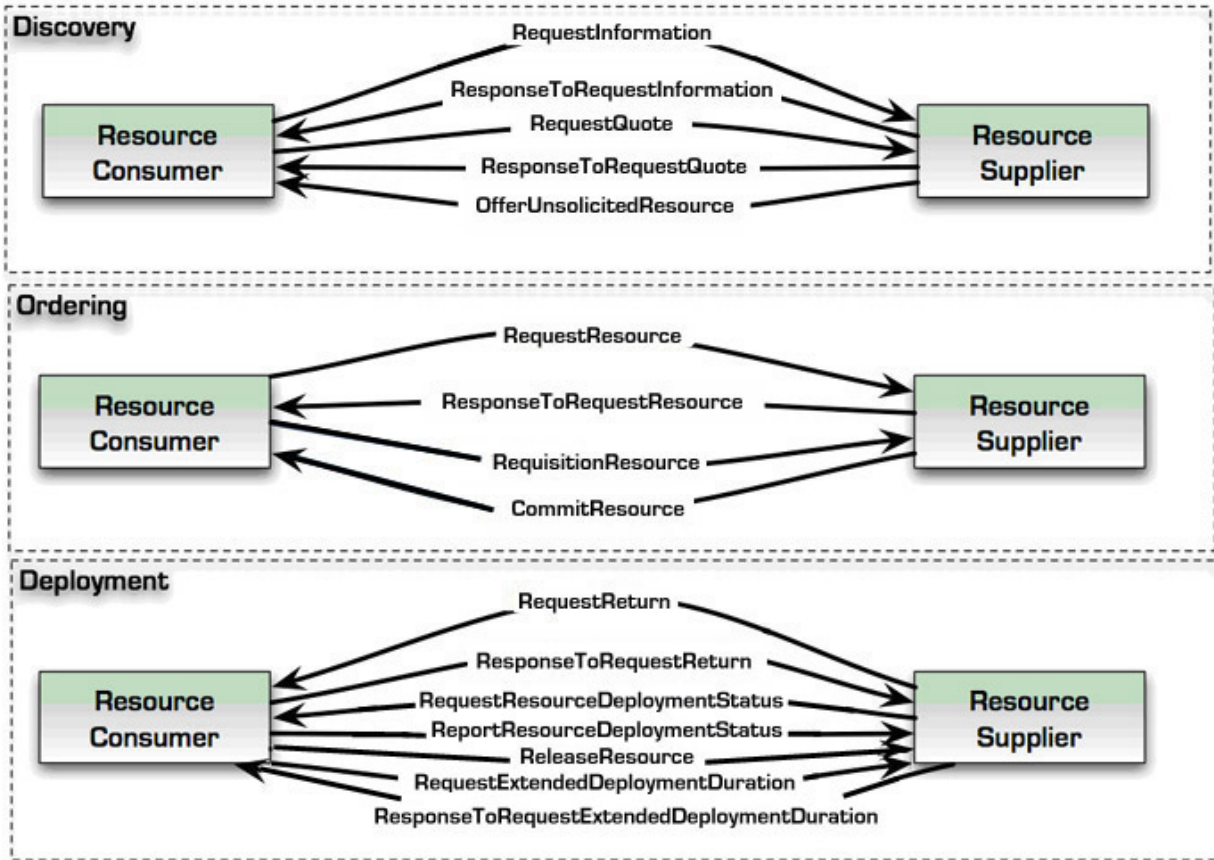
- 407 • Discovery,
- 408 • Ordering, and
- 409 • Deployment, as shown in Figure 3.

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

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

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

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



419
420
421

Figure 3: Resource Message Phases

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

424

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

427

Schema Element	Message Element	EDXL Request Resource	Response to Request Resource	Request 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	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
	SentDateTime	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
	MessageDescription	O	O	O	O	R	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
	PrecedingMessageID	N/A	R	O	R	O	R	N/A	O	O	R	O	R	O	O	O	R
	Incident Information	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
	Funding	O	O	R	O	O	O	N/A	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
Resource Information	R	R	R	R	O	O	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
	IncidentDescription	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
	RecallType	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
	FundingInfo	C	C	C	C	C	C	N/A	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
	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
	Resource	R	O	R	C	O	O	R	R	R	O	R	C	R	O	R	C
	Assignment Information	O	O	R	C	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
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
	ResponseType	N/A	R	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A	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
	ResponseReason	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	C
Resource	ResourceID	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
	TypeStructure	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
	Keyword	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
	Credentials	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
	SpecialRequirements	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
	Ownership Information	N/A	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	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
	OwningJurisdiction	N/A	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
	HomeUnit	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

Schema Element	Message Element	EDXL Request Resources	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	N/A	R	O	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

428

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

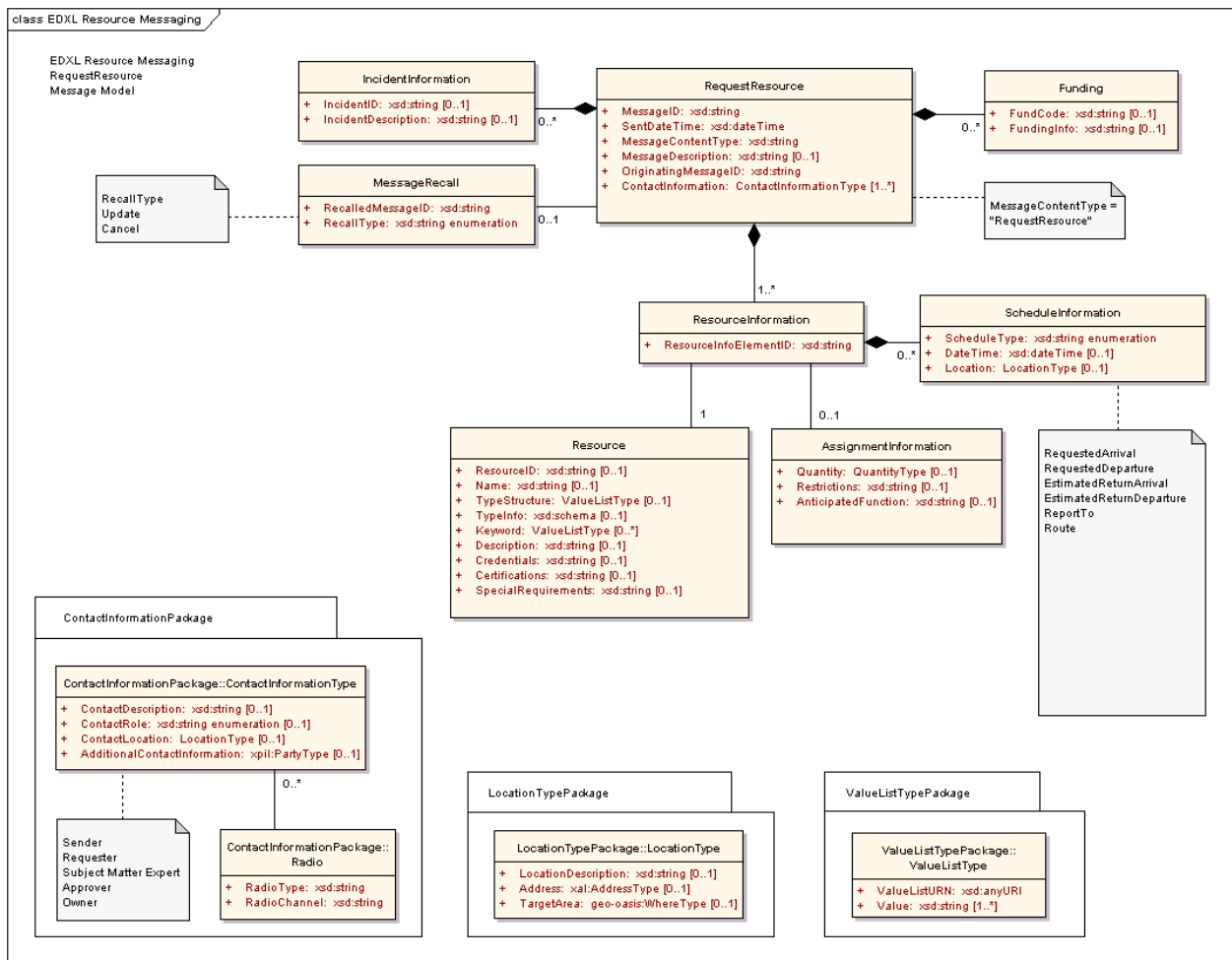
431 **3.4 RequestResource Message**

432 **3.4.1 Overview**

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

437 **3.4.2 Element Reference Model**

438 Figure 4 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestResource
 439 Message. The ERM shows the element-level details for the main entities in the RM.
 440



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

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

- 443
- 444 – **bold** indicates an element that is required
 - 445 – *italics* indicate an element that is conditional (the applicable rules for these elements appear below the table)
 - 446 – an asterisk (*) indicates that an element can appear multiple times
- 447

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

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

451

452 *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> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction
ScheduleInformation	ScheduleType [^] , <i>DateTime</i> , <i>Location</i>

453 3.4.3 RequestResource Message Rules

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

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

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

477 3.4.4 Message Flow

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

480 The potential responses to this message include:

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

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

484 3.4.5 Message Example

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

- 486 • Small Animal Sheltering Team (ResourceInfoElementID=001)
- 487 • Patrol and Surveillance Helicopters (ResourceInfoElementID =002)
- 488 • Electrical Power Restoration Team (ResourceInfoElementID =003).

489

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

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

```

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

```

```

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

```

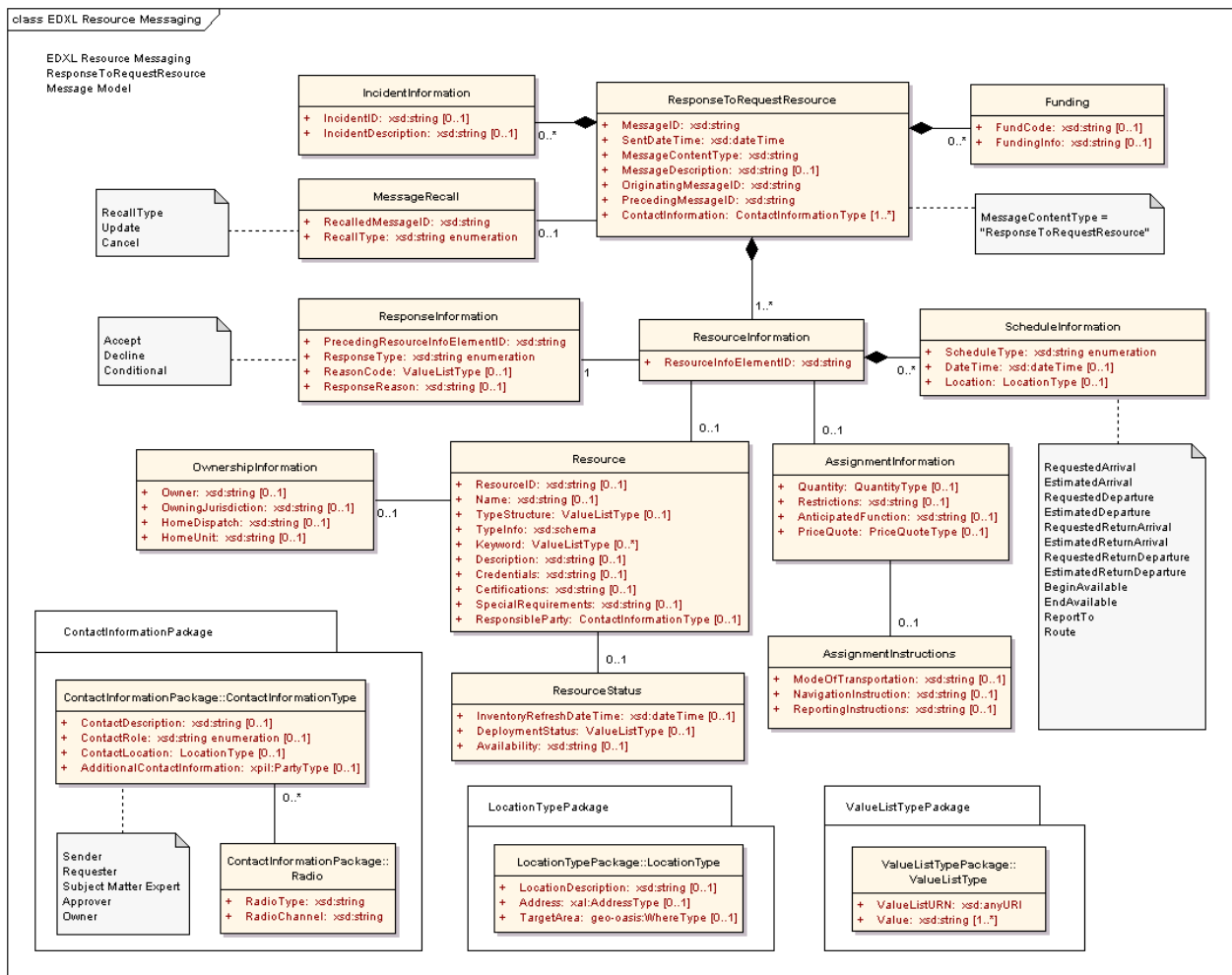
647 **3.5 ResponseToRequestResource Message**

648 **3.5.1 Overview**

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

654 **3.5.2 Element Reference Model**

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



658
659 *Figure 5: EDXL-RM ERM for ResponseToRequestResource Message*
660

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

662

663

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*, 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, AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType[^], DateTime, Location

664

665 3.5.3 ResponseToRequestResource Message Rules

666 The following rules apply to the above elements:

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

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

701

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

703 3.5.4 Message Flow

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

706 The potential responses to this message include:

- 707 • RequisitionResource (See Section 3.6).

708 The message may be canceled or updated through the ResponseToRequestResource:MessageRecall
709 element.

710 3.5.5 Message Example

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

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

717

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

```

719 <?xml version="1.0" encoding="UTF-8"?>
720 <ResponseToRequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
721   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
722     EDXL-RMResponseToRequestResource.xsd"
723   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
724   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
725   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
726   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
727   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"

```



```

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

```

```

799         <xal:NameElement>Downing St</xal:NameElement>
800         <xal:NameElement>27</xal:NameElement>
801     </xal:Thoroughfare>
802     <xal:PostCode>
803         <xal:Identifier>4860</xal:Identifier>
804     </xal:PostCode>
805 </rm:Address>
806 </Location>
807 </ScheduleInformation>
808 </ResourceInformation>
809 <ResourceInformation>
810     <ResourceInfoElementID>002</ResourceInfoElementID>
811     <ResponseInformation>
812         <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
813         <rm:ResponseType>Accept</rm:ResponseType>
814     </ResponseInformation>
815 </ResourceInformation>
816 <ResourceInformation>
817     <ResourceInfoElementID>003</ResourceInfoElementID>
818     <ResponseInformation>
819         <rm:PrecedingResourceInfoElementID>003</rm:PrecedingResourceInfoElementID>
820         <rm:ResponseType>Decline</rm:ResponseType>
821     </ResponseInformation>
822 </ResourceInformation>
823 </ResponseToRequestResource>

```

824 **3.6 RequisitionResource Message**

825 **3.6.1 Overview**

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

828 **3.6.2 Element Reference Model**

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

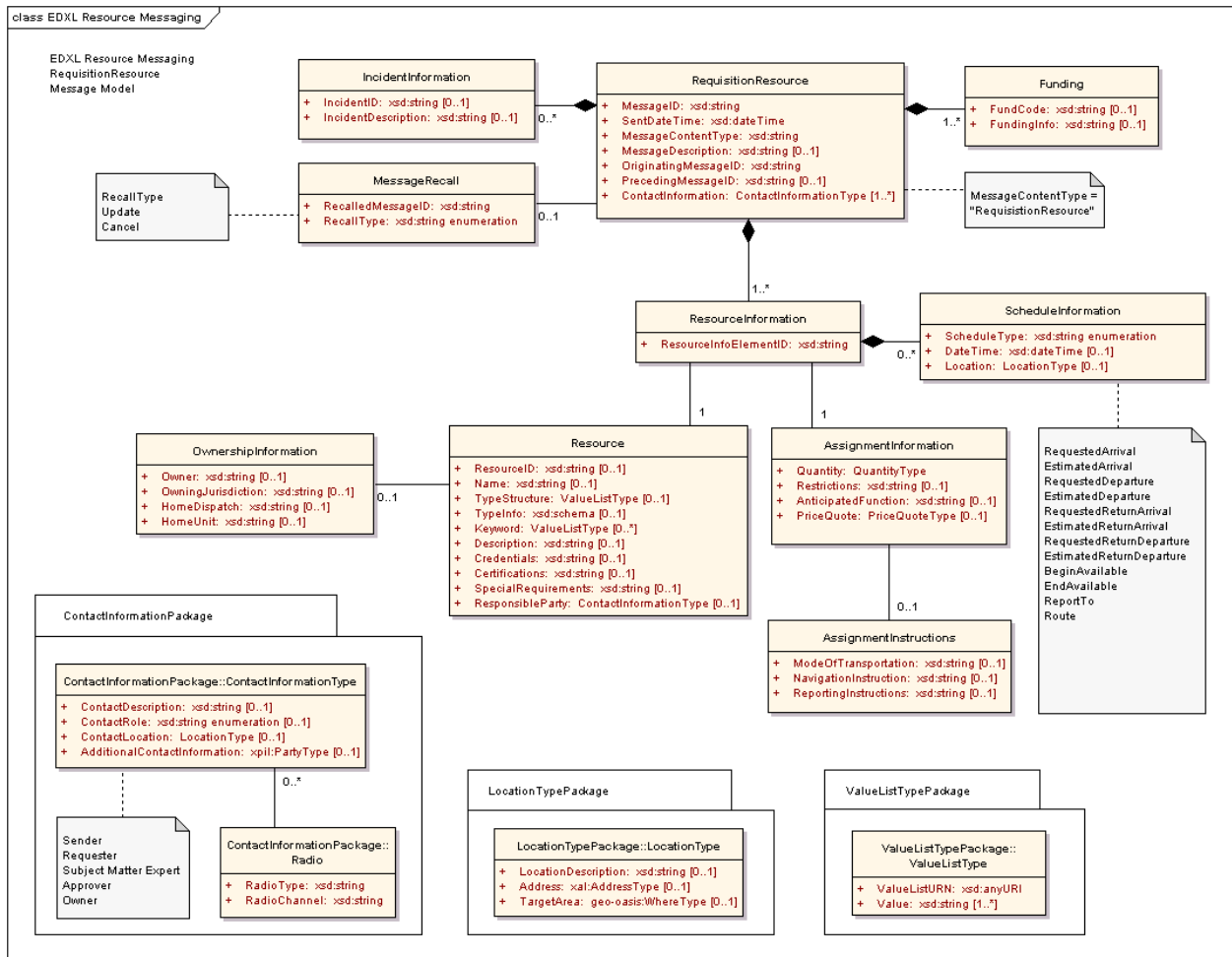


Figure 6: EDXL-RM ERM for RequisitionResource Message

831
832
833

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

835

836

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

837

838 3.6.3 RequisitionResource Message Rules

839 The following rules apply to the above elements:

- 840 • The RequisitionResource:MessageID, RequisitionResource:SentDateTime,
841 RequisitionResource:MessageContentType, RequisitionResource:OriginatingMessageID,
842 RequisitionResource:Funding, RequisitionResource:ContactInformation, and
843 RequisitionResource:ResourceInformation elements MUST be present.
- 844 • The value of RequisitionResource:MessageContentType MUST be "RequisitionResource".
- 845 • If a RequisitionResource:IncidentInformation element is present, then at least one of
846 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
847 present.
- 848 • If the RequisitionResource:MessageRecall element is present, then the
849 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 850 • If a RequisitionResource:Funding element is present, then at least one of Funding:FundCode
851 and/or Funding:FundingInfo elements MUST be present.
- 852 • The ResourceInformation:ResourceInfoElementID, ResourceInformation:Resource and
853 ResourceInformation:AssignmentInformation elements MUST be present.
- 854 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
855 MUST be present.

- 856 • If a Resource:OwnershipInformation element is present, then at least one of
857 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
858 be present.
 - 859 • The AssignmentInformation:Quantity element MUST be present.
 - 860 • If ResourceInformation:ScheduleInformation is present, then the
861 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
862 values:
 - 863 • "RequestedArrival", "RequestedDeparture", "EstimatedArrival", "EstimatedDeparture",
 - 864 "RequestedReturnArrival", "EstimatedReturnArrival", "RequestedReturnDeparture",
 - 865 "EstimatedReturnDeparture", "BeginAvailable", "EndAvailable", "ReportTo", or "Route"
- 866
- 867 The schema for a RequisitionResource message can be found in Appendix A.5.

868 3.6.4 Message Flow

- 869 The RequisitionResource message is a message created and sent by the Resource Consumer to any
870 number of Resource Suppliers.
- 871 The potential responses to this message include:
- 872 • CommitResource (See Section 3.7)
 - 873 • This includes Accept, Decline and Provisional responses.
- 874 The message may be canceled or updated through the RequisitionResource:MessageRecall element.

875 3.6.5 Message Example

- 876 Below is an example of a RequisitionResource Message, in which two resource requisitions are shown:
- 877 • Small Animal Sheltering Team (ResourceInfoElementID=001)
 - 878 • Patrol and Surveillance Helicopters (ResourceInfoElementID=002).
- 879
- 880 [Note: The XML example shown in this section is informative only.]

```

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

```

```

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

```

```

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

```

1027

1028 **3.7 CommitResource Message**

1029 **3.7.1 Overview**

1030 The “CommitResource” message is used by a Resource Supplier to confirm that resources have been
 1031 committed to a Resource Consumer request. Usually, the CommitResource is in response to a
 1032 RequisitionResource, or even a RequestResource. The CommitResource is the only message used to
 1033 indicate the resources have been allocated to an assignment/incident.

1034 **3.7.2 Element Reference Model**

1035 Figure 7 below shows the EDXL–RM Element Reference Model (ERM) tailored for the CommitResource
 1036 Message. The ERM shows the element-level details for the main entities in the RM.

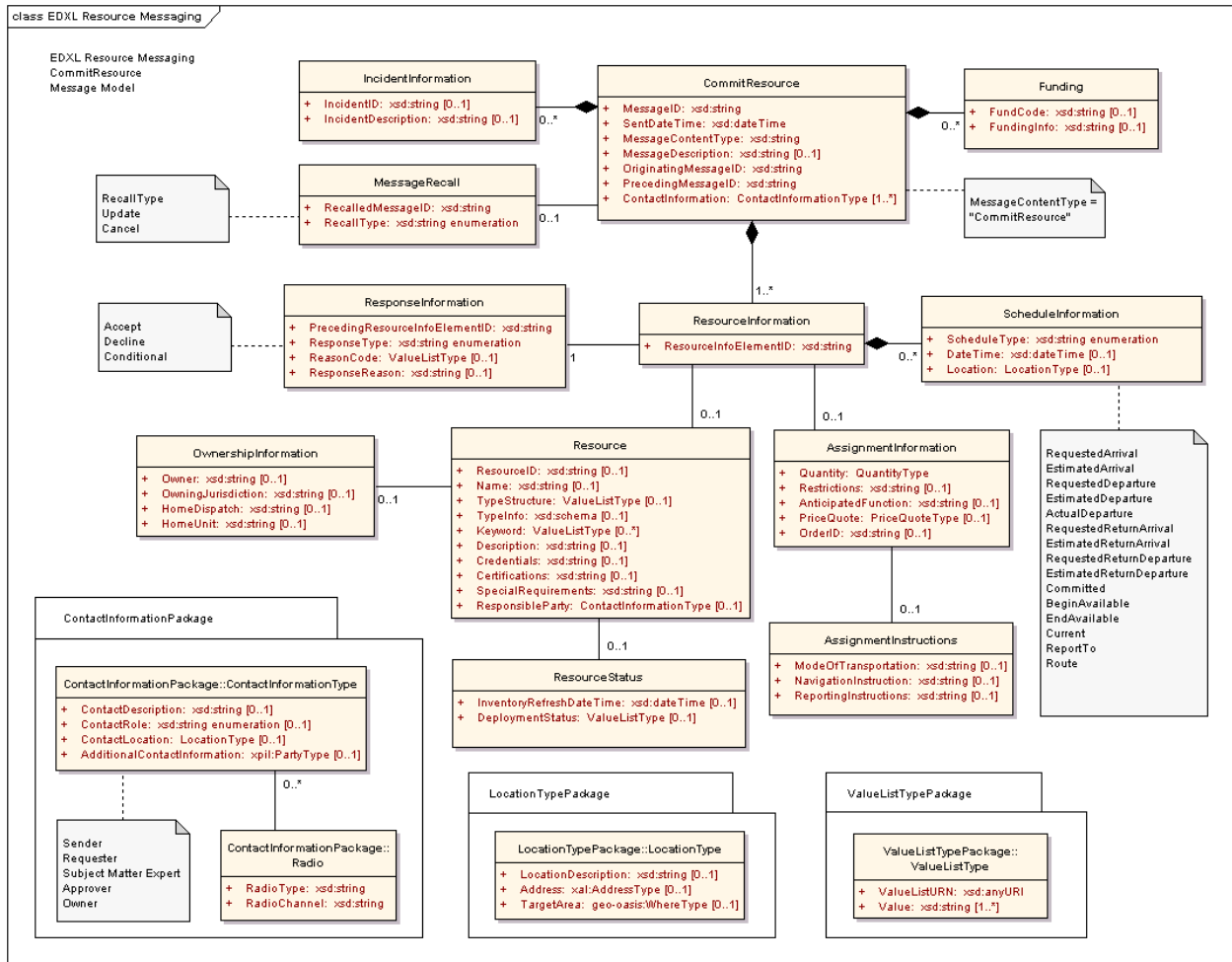


Figure 7: EDXL-RM ERM for CommitResource Message

1037
 1038
 1039

1040 The following table outlines the element cardinalities for this message type.

1041

1042

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

1043

1044 3.7.3 CommitResource Message Rules

1045 The following rules apply to the above elements:

- 1046 • The CommitResource:MessageID, CommitResource:SentDateTime,
1047 CommitResource:MessageContentType, CommitResource:OriginatingMessageID,
1048 CommitResource:PrecedingMessageID, CommitResource:ContactInformation, and
1049 CommitResource:ResourceInformation elements MUST be present.
- 1050 • The value of CommitResource:MessageContentType MUST be "CommitResource".
- 1051 • If a CommitResource:IncidentInformation element is present, then at least one of
1052 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1053 present.
- 1054 • If the CommitResource:MessageRecall element is present, then the
1055 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1056 • If a CommitResource:Funding element is present, then at least one of Funding:FundCode and/or
1057 Funding:FundingInfo elements MUST be present.
- 1058 • The ResourceInformation:ResourceInfoElementID and
1059 ResourceInformation:ResponseInformation elements MUST be present.

- 1060 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1061 ResourceInformation:Resource element MUST be present.
- 1062 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1063 ResourceInformation:AssignmentInformation element MUST be present. If
1064 ResponseInformation:ResponseType has a value of “Decline”, then the
1065 ResourceInformation:AssignmentInformation is not applicable.
- 1066 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1067 ResourceInformation:ScheduleInformation element MUST be present. If
1068 ResponseInformation:ResponseType has a value of “Decline”, then the
1069 ResourceInformation:ScheduleInformation is not applicable.
- 1070 • The ResponseInformation:PrecedingResourceInfoElementID and
1071 ResponseInformation:ResponseType elements MUST be present.
- 1072 • If ResponseInformation:ResponseType has a value of “Provisional”, then at least one of
1073 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1074 MUST be present.
- 1075 • If a ResourceInformation:Resource element is present, then at least one of
1076 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
1077 present.
- 1078 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
1079 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1080 • If a ResourceInformation:AssignmentInformation element is present, then the
1081 AssignmentInformation:Quantity element MUST be present.
- 1082 • If the ResourceInformation:ScheduleInformation element is present, then the
1083 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1084 values:
 - 1085 • “RequestedArrival”, “EstimatedArrival”, “EstimatedDeparture”, “RequestedDeparture”,
1086 “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”,
1087 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “BeginAvailable”,
1088 “EndAvailable”, “Current”, “ReportTo” or “Route”.

1089
1090 The schema for a CommitResource message can be found in Appendix A.6.

1091 **3.7.4 Message Flow**

1092 The CommitResource message is sent by a Resource Supplier in response to either a RequestResource
1093 or RequisitionResource message sent by the Resource Consumer.

1094 The message may be canceled or updated through the CommitResource:MessageRecall element.

1095 **3.7.5 Message Example**

1096 Below is an example of a CommitResource Message. This is an example Response to the original
1097 RequisitionResource shown in Section 3.6.5. In this example, the two requests have different responses:

- 1098 • The “Small Animal Sheltering Team” (ResourceInfoElementID=001) is Accepted. In this case the
1099 Schedule information is updated with Committed date.
- 1100 • The “Patrol and Surveillance Helicopters” (ResourceInfoElementID=002) is Declined.

1101

1102 [Note: The XML example shown in this section is informative only.]

```
1103 <?xml version="1.0" encoding="UTF-8"?>
1104 <CommitResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1105   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1106     EDXL-RMCommitResource.xsd"
1107   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1108   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1109   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1110   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1111   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1112   xmlns:gml="http://www.opengis.net/gml">
1113   <MessageID>urn:au-qld-eoc:997754</MessageID>
1114   <SentDateTime>2006-03-21T12:46:00+10:00</SentDateTime>
1115   <MessageContentType>CommitResource</MessageContentType>
1116   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1117   <PrecedingMessageID>urn:au-qld-eoc:987654</PrecedingMessageID>
1118   <IncidentInformation>
1119     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1120   </IncidentInformation>
1121   <Funding>
1122     <rm:FundCode>HP4347</rm:FundCode>
1123   </Funding>
1124   <ContactInformation>
1125     <rm:ContactRole>Sender</rm:ContactRole>
1126     <rm:AdditionalContactInformation>
1127       <xpil:PartyName>
1128         <xnl:PersonName>
1129           <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1130           <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1131         </xnl:PersonName>
1132         <xnl:OrganisationName>
1133           <xnl:NameElement>EMA</xnl:NameElement>
1134         </xnl:OrganisationName>
1135       </xpil:PartyName>
1136     </rm:AdditionalContactInformation>
1137   </ContactInformation>
1138   <ResourceInformation>
1139     <ResourceInfoElementID>001</ResourceInfoElementID>
1140     <ResponseInformation>
1141       <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
1142       <rm:ResponseType>Accept</rm:ResponseType>
1143     </ResponseInformation>
1144     <Resource>
1145       <TypeStructure>
1146         <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1147         <rm:Value>Small Animal Sheltering Team</rm:Value>
1148       </TypeStructure>
1149       <Description>
1150         5-person response team to advise and support local efforts to set up a
1151         small animal shelter
1152       </Description>
1153       <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
1154     </Resource>
1155     <AssignmentInformation>
1156       <Quantity>
1157         <rm:MeasuredQuantity>
1158           <rm:Amount>1</rm:Amount>
1159         </rm:MeasuredQuantity>
1160       </Quantity>
1161     </AssignmentInformation>
1162     <ScheduleInformation>
1163       <ScheduleType>Committed</ScheduleType>
1164       <DateTime>2006-03-21T12:46:00+10:00</DateTime>
1165     </ScheduleInformation>
1166   </ResourceInformation>
1167   <ResourceInformation>
1168     <ResourceInfoElementID>002</ResourceInfoElementID>
1169     <ResponseInformation>
1170       <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
1171       <rm:ResponseType>Decline</rm:ResponseType>
```

1172
1173
1174

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

1175 **3.8 RequestInformation Message**

1176 **3.8.1 Overview**

1177 One use of the “RequestInformation” message is to ask questions about specific resources. In this case,
 1178 the message can be the initial message sent from the Resource Consumer to the Resource Suppliers, or
 1179 it can be a follow up message seeking further information after the Resource Consumer has sent a
 1180 RequestResource or other resource messages. A RequestInformation can be used in this manner even
 1181 after a resource has been committed and/or deployed; however, if the request is related to the status of a
 1182 deployed resource, the RequestResourceDeploymentStatus message MUST be used instead.

1183 A second use of this message type is to provide a general description of the sender’s situation and
 1184 needs, with the expectation of receiving responses suggesting suitable resources. This is useful when the
 1185 Resource Consumer is not able to issue a specific RequestResource message because of a lack of
 1186 knowledge about the resources that would be most appropriate for the situation.

1187 **3.8.2 Element Reference Model**

1188 Figure 8 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 1189 RequestInformation Message. The ERM shows the element-level details for the main entities in the RM.

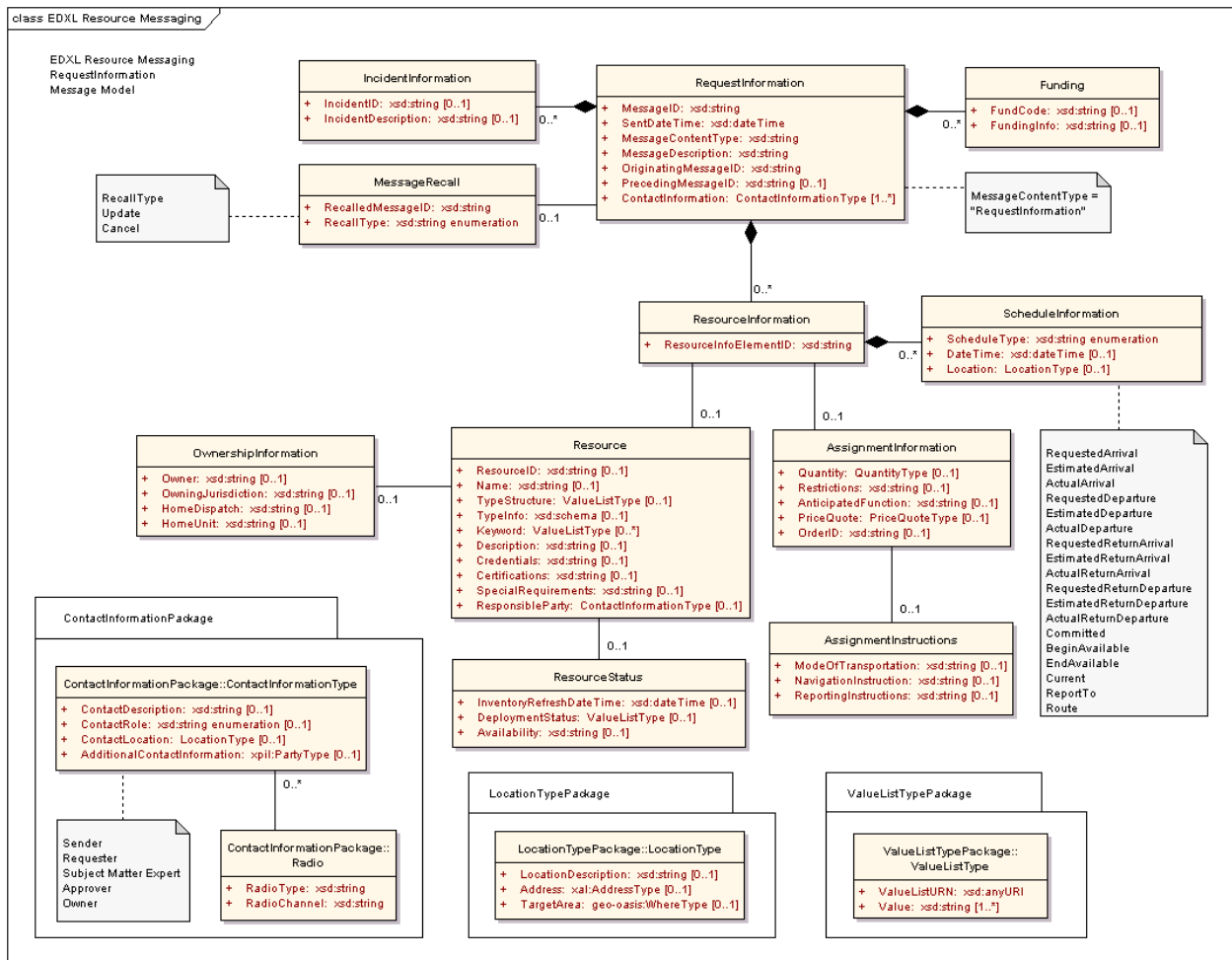


Figure 8: EDXL-RM ERM for RequestInformation Message

1190
 1191
 1192

1193 The following table outlines the element cardinalities for this message type.

1194

1195

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

1196

1197 3.8.3 RequestInformation Message rules

1198 The following rules apply to the above elements:

- 1199 • The RequestInformation:MessageID, ResourceMessage:SentDateTime
1200 ResourceMessage:MessageContentType, ResourceMessage:MessageDescription,
1201 ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements
1202 MUST be present.
- 1203 • The value of RequestInformation:MessageContentType MUST be "RequestInformation".
- 1204 • If a RequestInformation:IncidentInformation element is present, then at least one of
1205 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1206 present.
- 1207 • If the ResourceMessage:MessageRecall element is present, then the
1208 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1209 • If a RequestInformation:Funding element is present, then at least one of Funding:FundCode
1210 and/or Funding:FundingInfo elements MUST be present.
- 1211 • If a RequestInformation:ResourceInformation element is present, then the
1212 ResourceInformation:ResourceInfoElementID element MUST be present.

- 1213 • If a ResourceInformation:Resource element is present, then at least one of
- 1214 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
- 1215 present.
- 1216 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
- 1217 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1218 • If the ResourceInformation:ScheduleInformation element is present, then the
- 1219 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
- 1220 values:
 - 1221 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 - 1222 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 - 1223 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 - 1224 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
 - 1225 "Committed", "Current", "ReportTo" or "Route".
- 1226
- 1227 The schema for a RequestInformation message can be found in Appendix A.7.

1228 3.8.4 Message Flow

- 1229 The RequestInformation message may be sent by the Resource Consumer to any number of Resource
- 1230 Suppliers, or may it may be sent vice versa. The RequestInformation message may follow earlier
- 1231 resource messages.
- 1232 The potential responses to this message include:
- 1233 • ResponseToRequestInformation (See Section 3.9)
 - 1234 • ReportResourceDeploymentStatus
 - 1235 • This includes Accept, Decline, and Provisional responses.
- 1236 The message may be canceled or updated through the RequestInformation:MessageRecall element.

1237 3.8.5 Message Example

1238 Below is an example RequestInformation messages. The first is intended as a follow up message to the

1239 RequestResource and ResponseToRequestResource messages shown in Sections 3.4.5 and 3.5.5,

1240 requesting further information about the third resource that was requested (two electrical power

1241 restoration teams).

1242

1243 [Note: The XML examples shown in this section are informative only.]

```

1244 <?xml version="1.0" encoding="UTF-8"?>
1245 <RequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1246   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1247     EDXL-RMRequestInformation.xsd"
1248   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1249   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1250   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1251   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1252   xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1253   xmlns:gml="http://www.opengis.net/gml">
1254 <MessageID>urn:au-qld-eoc:12338</MessageID>
1255 <SentDateTime>2006-03-21T12:35:00+10:00</SentDateTime>
1256 <MessageContentType>RequestInformation</MessageContentType>
1257 <MessageDescription>
1258   Could you please advise the size (personnel and equipment) of each power
1259   restoration team?
1260 </MessageDescription>
1261 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1262 <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
1263 <IncidentInformation>

```

```

1264     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1265 </IncidentInformation>
1266 <ContactInformation>
1267   <rm:ContactRole>Sender</rm:ContactRole>
1268   <rm:AdditionalContactInformation>
1269     <xpil:PartyName>
1270       <xnl:PersonName>
1271         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1272         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1273       </xnl:PersonName>
1274       <xnl:OrganisationName>
1275         <xnl:NameElement>EMA</xnl:NameElement>
1276       </xnl:OrganisationName>
1277     </xpil:PartyName>
1278   </rm:AdditionalContactInformation>
1279 </ContactInformation>
1280 <ResourceInformation>
1281   <ResourceInfoElementID>001</ResourceInfoElementID>
1282   <Resource>
1283     <TypeStructure>
1284       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1285       <rm:Value>Electrical Power Restoration Team</rm:Value>
1286     </TypeStructure>
1287   </Resource>
1288 <AssignmentInformation>
1289   <Quantity>
1290     <rm:MeasuredQuantity>
1291       <rm:Amount>1</rm:Amount>
1292     </rm:MeasuredQuantity>
1293   </Quantity>
1294   <AnticipatedFunction>
1295     Restore power to critical infrastructure in and around the
1296     Innisfail area
1297   </AnticipatedFunction>
1298 </AssignmentInformation>
1299 </ResourceInformation>
1300 </RequestInformation>

```


1317 The following table outlines the element cardinalities for this message type.

1318

1319

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

1320

1321 3.9.3 ResponseToRequestInformation Message Rules

1322 The following rules apply to the above elements:

- 1323 • The ResponseToRequestInformation:MessageID,
1324 ResponseToRequestInformation:SentDateTime
1325 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.

- 1326 ResponseToRequestInformation:OriginatingMessageID,
 1327 ResponseToRequestInformation:PrecedingMessageID, and
 1328 ResponseToRequestInformation:ContactInformation elements MUST be present.
- 1329 • The value of ResponseToRequestInformation:MessageContentType MUST be
 1330 "ResponseToRequestInformation".
 - 1331 • If a ResponseToRequestInformation:IncidentInformation element is present, then at least one of
 1332 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
 1333 present.
 - 1334 • If the ResponseToRequestInformation:MessageRecall element is present, then the
 1335 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
 - 1336 • If a ResponseToRequestInformation:Funding element is present, then at least one of
 1337 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
 - 1338 • If a ResponseToRequestInformation:ResourceInformation element is present, then the
 1339 ResourceInformation:ResourceInfoElementID element MUST be present.
 - 1340 • If the ResourceInformation:ResponseInformation element is present, then the
 1341 ResponseInformation:PrecedingResourceInfoElementID and
 1342 ResponseInformation:ResponseType elements MUST be present.
 - 1343 • If the ResourceInformation:ResponseInformation element is present and the
 1344 ResponseInformation:ResponseType element has a value of "Provisional", then at least one of
 1345 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
 1346 MUST be present.
 - 1347 • If a ResourceInformation:Resource element is present, then at least one of
 1348 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
 1349 present.
 - 1350 • If a Resource:OwnershipInformation element is present, then at least one of
 1351 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
 1352 be present.
 - 1353 • If the ResourceInformation:ScheduleInformation element is present, then the
 1354 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
 1355 values:
 - 1356 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 1357 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 1358 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 1359 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
 1360 "Committed", "Current", "ReportTo" or "Route".

1361
 1362 The schema for a ResponseToRequestInformation message can be found in Appendix A.8.

1363 **3.9.4 Message Flow**

1364 The ResponseToRequestInformation message is sent by a Resource Supplier or Resource Consumer in
 1365 response to an original RequestInformation message.

1366 The potential responses to this message include:

- 1367 • RequisitionResource message from the Resource Consumer. (See Section 3.6)

1368 The message may be canceled or updated through the ResponseToRequestInformation:MessageRecall
 1369 element.

1370

1371 **3.9.5 Message Example**

1372 Below are two example ResponseToRequestInformation messages. These are example responses to the
1373 RequestInformation messages shown in Section 3.8.5.

1374

1375 [Note: The XML examples shown in this section are informative only.]

```
1376 <?xml version="1.0" encoding="UTF-8"?>
1377 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1378   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1379     EDXL-RMResponseToRequestInformation.xsd"
1380   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1381   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1382   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1383   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1384   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1385   xmlns:gml="http://www.opengis.net/gml">
1386 <MessageID>urn:au-qld-eoc:12346</MessageID>
1387 <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
1388 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1389 <MessageDescription>
1390   Team consists of 5 overhead (2 person) crews with material handlers; 1
1391   overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and fleet
1392   services support. Each team is additionally equipped with digger derrick/pole
1393   trailer and auxiliary (material handler or 36' bucket).
1394 </MessageDescription>
1395 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1396 <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
1397 <IncidentInformation>
1398   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1399 </IncidentInformation>
1400 <ContactInformation>
1401   <rm:ContactRole>Sender</rm:ContactRole>
1402   <rm:AdditionalContactInformation>
1403     <xpil:PartyName>
1404       <xnl:PersonName>
1405         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1406         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1407       </xnl:PersonName>
1408       <xnl:OrganisationName>
1409         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1410       </xnl:OrganisationName>
1411     </xpil:PartyName>
1412     <xpil:ContactNumbers>
1413       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1414         xpil:ContactHours="9:00AM - 5:00PM">
1415         <xpil:ContactNumberElement
1416           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1417         <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1418         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1419           3000
1420           1234
1421         </xpil:ContactNumberElement>
1422       </xpil:ContactNumber>
1423     </xpil:ContactNumbers>
1424     <xpil:ElectronicAddressIdentifiers>
1425       <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
1426     </xpil:ElectronicAddressIdentifier>
1427     </xpil:ElectronicAddressIdentifiers>
1428   </rm:AdditionalContactInformation>
1429 </ContactInformation>
1430 </ResponseToRequestInformation>
```

```

1431 <?xml version="1.0" encoding="UTF-8"?>
1432 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1433   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1434     EDXL-RMResponseToRequestInformation.xsd"
1435   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1436   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1437   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1438   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1439   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1440   xmlns:gml="http://www.opengis.net/gml">
1441 <MessageID>urn:au-qld-eoc:77397</MessageID>
1442 <SentDateTime>2006-03-22T08:22:00+10:00</SentDateTime>
1443 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1444 <MessageDescription>
1445   QBuild can send a damage assessment team from Cairns this afternoon.
1446 </MessageDescription>
1447 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1448 <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
1449 <IncidentInformation>
1450   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1451 </IncidentInformation>
1452 <ContactInformation>
1453   <rm:ContactRole>Sender</rm:ContactRole>
1454   <rm:AdditionalContactInformation>
1455     <xpil:PartyName>
1456       <xnl:PersonName>
1457         <xnl:NameElement xnl:ElementType="FirstName">Barnaby</xnl:NameElement>
1458         <xnl:NameElement xnl:ElementType="LastName">James</xnl:NameElement>
1459       </xnl:PersonName>
1460       <xnl:OrganisationName>
1461         <xnl:NameElement>EMA</xnl:NameElement>
1462       </xnl:OrganisationName>
1463     </xpil:PartyName>
1464     <xpil:ContactNumbers>
1465       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1466         <xpil:ContactNumberElement
1467           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1468         <xpil:ContactNumberElement xpil:Type="AreaCode">2</xpil:ContactNumberElement>
1469         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1470           9864
1471           4329
1472         </xpil:ContactNumberElement>
1473       </xpil:ContactNumber>
1474     </xpil:ContactNumbers>
1475   </rm:AdditionalContactInformation>
1476 </ContactInformation>
1477 <ContactInformation>
1478   <rm:ContactRole>Requester</rm:ContactRole>
1479   <rm:AdditionalContactInformation>
1480     <xpil:PartyName>
1481       <xnl:PersonName>
1482         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1483         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1484       </xnl:PersonName>
1485       <xnl:OrganisationName>
1486         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1487       </xnl:OrganisationName>
1488     </xpil:PartyName>
1489   </rm:AdditionalContactInformation>
1490 </ContactInformation>
1491 <ResourceInformation>
1492   <ResourceInfoElementID>001</ResourceInfoElementID>
1493   <Resource>
1494     <TypeStructure>
1495       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1496       <rm:Value>Engineering Services: Damage Assessment Team</rm:Value>
1497     </TypeStructure>
1498   </Resource>
1499   <AssignmentInformation>
1500     <Quantity>
1501     <rm:MeasuredQuantity>

```

```
1502     <rm:Amount>1</rm:Amount>
1503     </rm:MeasuredQuantity>
1504     </Quantity>
1505     <AnticipatedFunction>
1506         Preliminary assessment of cracks in Centenary Bridge,
1507         Innisfail.
1508     </AnticipatedFunction>
1509 </AssignmentInformation>
1510 <ScheduleInformation>
1511     <ScheduleType>EstimatedDeparture</ScheduleType>
1512     <DateTime>2006-03-22T15:00:00</DateTime>
1513     <Location>
1514         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1515     </Location>
1516 </ScheduleInformation>
1517 <ScheduleInformation>
1518     <ScheduleType>EstimatedArrival</ScheduleType>
1519     <DateTime>2006-03-25T16:00:00+10:00</DateTime>
1520     <Location>
1521         <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1522     </Location>
1523 </ScheduleInformation>
1524 </ResourceInformation>
1525 </ResponseToRequestInformation>
```

1526

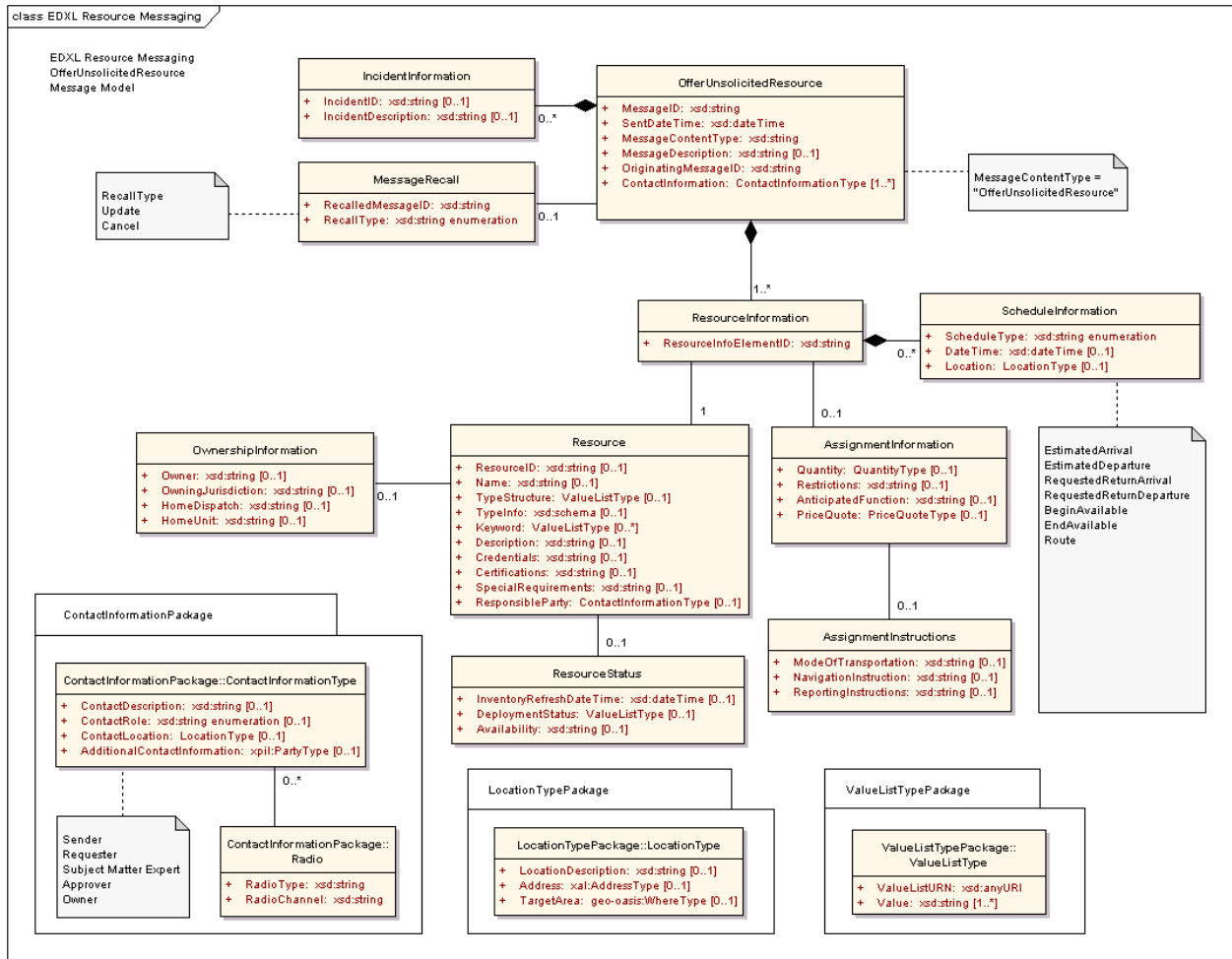
1527 **3.10 OfferUnsolicitedResource Message**

1528 **3.10.1 Overview**

1529 The “OfferUnsolicitedResource” message is used to offer available resources (that have not been
 1530 requested) to assist with an emergency response.

1531 **3.10.2 Element Reference Model**

1532 Figure 10 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 1533 OfferUnsolicitedResource Message. The ERM shows the element-level details for the main entities in the
 1534 RM.



1535 *Figure 10: EDXL-RM ERM for OfferUnsolicitedResource Message*

1536
 1537

1538 The following table outlines the element cardinalities for this message type.

1539

1540

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

1541

1542 3.10.3 OfferUnsolicitedResource Message Rules

1543 The following rules apply to the above elements:

- 1544 • The OfferUnsolicitedResource:MessageID, OfferUnsolicitedResource:SentDateTime
1545 OfferUnsolicitedResource:MessageContentType,
1546 OfferUnsolicitedResource:OriginatingMessageID, OfferUnsolicitedResource:ContactInformation,
1547 and OfferUnsolicitedResource:ResourceInformation elements MUST be present.
- 1548 • The value of OfferUnsolicitedResource:MessageContentType MUST be
1549 "OfferUnsolicitedResource".
- 1550 • If an OfferUnsolicitedResource:IncidentInformation element is present, then at least one of
1551 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1552 present.
- 1553 • If the OfferUnsolicitedResource:MessageRecall element is present, then the
1554 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1555 • For each OfferUnsolicitedResource:ResourceInformation element, the
1556 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1557 MUST be present.
- 1558 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1559 MUST be present.

- 1560 • If a Resource:OwnershipInformation element is present, then at least one of
- 1561 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
- 1562 be present.
- 1563 • If the ResourceInformation:ScheduleInformation element is present, then the
- 1564 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
- 1565 values:
- 1566 • “EstimatedArrival”, “EstimatedDeparture”, “RequestedReturnDeparture”,
- 1567 “RequestedReturnArrival”, “BeginAvailable”, “EndAvailable”, or “Route”.

1568

1569 The schema for an OfferUnsolicitedResource message can be found in Appendix A.9.

1570 3.10.4 Message Flow

1571 The OfferUnsolicitedResource message is an initial message created and sent by the Resource Supplier

1572 to any number of Resource Consumers.

1573 The potential responses to this message include:

- 1574 • RequestInformation (See Section 3.8)
- 1575 • RequisitionResource (See Section 3.6)

1576 The message may be canceled or updated through the OfferUnsolicitedResource:MessageRecall

1577 element.

1578

1579 3.10.5 Message Example

1580 Below is an example OfferUnsolicitedResource message. This message offers a donation of 100 large

1581 and 100 small tarpaulins.

1582

1583 [Note: The XML example shown in this section is informative only.]

```

1584 <?xml version="1.0" encoding="UTF-8"?>
1585 <OfferUnsolicitedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1586   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1587     EDXL-RMOfferUnsolicitedResource.xsd"
1588   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1589   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1590   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1591   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
1592 <MessageID>urn:au-qld-eoc:84313</MessageID>
1593 <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
1594 <MessageContentType>OfferUnsolicitedResource</MessageContentType>
1595 <MessageDescription>
1596   We would like to donate 100 small and 100 large tarps for use by residents
1597   whose homes have been damaged by the cyclone.
1598 </MessageDescription>
1599 <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
1600 <IncidentInformation>
1601   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1602 </IncidentInformation>
1603 <ContactInformation>
1604   <rm:ContactRole>Owner</rm:ContactRole>
1605   <rm:AdditionalContactInformation>
1606     <xpil:PartyName>
1607       <xnl:PersonName>
1608         <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
1609         <xnl:NameElement xnl:ElementType="LastName">Williams</xnl:NameElement>
1610       </xnl:PersonName>
1611       <xnl:OrganisationName>
1612         <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>
1613       </xnl:OrganisationName>

```

```

1614     </xpil:PartyName>
1615     <xpil:Addresses>
1616         <xpil:Address>
1617             <xal:Country>
1618                 <xal:NameElement>Australia</xal:NameElement>
1619             </xal:Country>
1620             <xal:AdministrativeArea>
1621                 <xal:NameElement>QLD</xal:NameElement>
1622             </xal:AdministrativeArea>
1623             <xal:Locality>
1624                 <xal:NameElement>Cairns</xal:NameElement>
1625             </xal:Locality>
1626             <xal:Thoroughfare>
1627                 <xal:NameElement>Spence St</xal:NameElement>
1628             </xal:Thoroughfare>
1629             <xal:PostCode>
1630                 <xal:Identifier>4870</xal:Identifier>
1631             </xal:PostCode>
1632         </xpil:Address>
1633     </xpil:Addresses>
1634     <xpil:ContactNumbers>
1635         <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1636             xpil:ContactHours="8:00AM - 6:00PM">
1637             <xpil:ContactNumberElement
1638                 xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1639             <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1640             <xpil:ContactNumberElement xpil:Type="LocalNumber">
1641                 4052
1642                 0378
1643             </xpil:ContactNumberElement>
1644         </xpil:ContactNumber>
1645     </xpil:ContactNumbers>
1646 </rm:AdditionalContactInformation>
1647 </ContactInformation>
1648 <ResourceInformation>
1649     <ResourceInfoElementID>001</ResourceInfoElementID>
1650     <Resource>
1651         <TypeStructure>
1652             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1653             <rm:Value>Large tarpaulin</rm:Value>
1654         </TypeStructure>
1655         <Description> 30 x 40 ft, 800 denier blue tarp </Description>
1656     </Resource>
1657 <AssignmentInformation>
1658     <Quantity>
1659         <rm:MeasuredQuantity>
1660             <rm:Amount>100</rm:Amount>
1661         </rm:MeasuredQuantity>
1662     </Quantity>
1663     <AssignmentInstructions>
1664         <rm:ModeOfTransportation>
1665             We have a truck available to deliver to Innisfail (or other
1666             preferred location).
1667         </rm:ModeOfTransportation>
1668     </AssignmentInstructions>
1669 </AssignmentInformation>
1670 <ScheduleInformation>
1671     <ScheduleType>BeginAvailable</ScheduleType>
1672     <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1673     <Location>
1674         <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1675         <rm:Address>
1676             <xal:Country>
1677                 <xal:NameElement>Australia</xal:NameElement>
1678             </xal:Country>
1679             <xal:AdministrativeArea>
1680                 <xal:NameElement>QLD</xal:NameElement>
1681             </xal:AdministrativeArea>
1682             <xal:Locality>
1683                 <xal:NameElement>Cairns</xal:NameElement>
1684             </xal:Locality>

```

```

1685     <xal:Thoroughfare>
1686         <xal:NameElement>Spence St</xal:NameElement>
1687     </xal:Thoroughfare>
1688     <xal:PostCode>
1689         <xal:Identifier>4870</xal:Identifier>
1690     </xal:PostCode>
1691     </rm:Address>
1692 </Location>
1693 </ScheduleInformation>
1694 </ResourceInformation>
1695 <ResourceInformation>
1696     <ResourceInfoElementID>002</ResourceInfoElementID>
1697     <Resource>
1698         <TypeStructure>
1699             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1700             <rm:Value>Small tarpaulin</rm:Value>
1701         </TypeStructure>
1702         <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1703     </Resource>
1704     <AssignmentInformation>
1705         <Quantity>
1706             <rm:MeasuredQuantity>
1707                 <rm:Amount>100</rm:Amount>
1708             </rm:MeasuredQuantity>
1709         </Quantity>
1710         <AssignmentInstructions>
1711             <rm:ModeOfTransportation>
1712                 We have a truck available to deliver to Innisfail (or other
1713                 preferred location).
1714             </rm:ModeOfTransportation>
1715         </AssignmentInstructions>
1716     </AssignmentInformation>
1717 </ScheduleInformation>
1718 <ScheduleType>BeginAvailable</ScheduleType>
1719 <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1720 <Location>
1721     <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1722     <rm:Address>
1723         <xal:Country>
1724             <xal:NameElement>Australia</xal:NameElement>
1725         </xal:Country>
1726         <xal:AdministrativeArea>
1727             <xal:NameElement>QLD</xal:NameElement>
1728         </xal:AdministrativeArea>
1729         <xal:Locality>
1730             <xal:NameElement>Cairns</xal:NameElement>
1731         </xal:Locality>
1732         <xal:Thoroughfare>
1733             <xal:NameElement>Spence St</xal:NameElement>
1734         </xal:Thoroughfare>
1735         <xal:PostCode>
1736             <xal:Identifier>4870</xal:Identifier>
1737         </xal:PostCode>
1738     </rm:Address>
1739 </Location>
1740 </ScheduleInformation>
1741 </ResourceInformation>
1742 </OfferUnsolicitedResource>

```

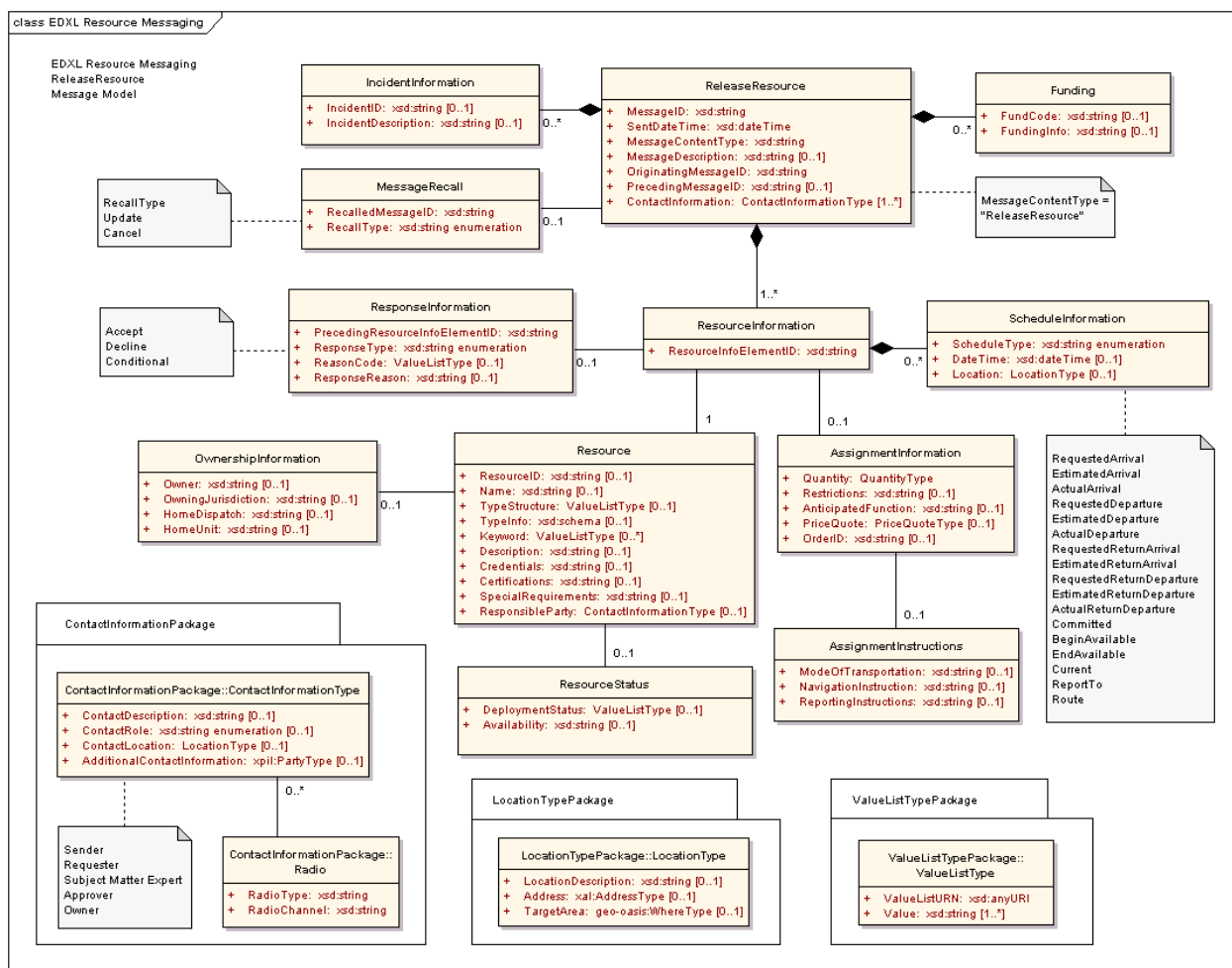
1743 **3.11 ReleaseResource Message**

1744 **3.11.1 Overview**

1745 The “ReleaseResource” message is used by authorities at the incident to “release” (demobilize) a
 1746 resource back to its original point of assignment or to another location / assignment.

1747 **3.11.2 Element Reference Model**

1748 Figure 11 below shows the EDXL–RM Element Reference Model (ERM) tailored for the ReleaseResource
 1749 Message. The ERM shows the element-level details for the main entities in the RM.
 1750



1751
 1752 *Figure 11: EDXL-RM ERM for ReleaseResource Message*
 1753

1754 The following table outlines the element cardinalities for this message type.

1755

1756

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	<i>DeploymentStatus, Availability</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType, DateTime, Location

1757

1758 3.11.3 ReleaseResource Message Rules

1759 The following rules apply to the above elements:

- 1760 • The ReleaseResource:MessageID, ReleaseResourceMessage:SentDateTime, ReleaseResource
1761 Message:MessageContentType, ReleaseResource Message:OriginatingMessageID,
1762 ReleaseResource Message:ContactInformation, and ReleaseResource
1763 Message:ResourceInformation elements MUST be present.
- 1764 • The value of ReleaseResource Message:MessageContentType MUST be "ReleaseResource".
- 1765 • If a ReleaseResource Message:IncidentInformation element is present, then at least one of
1766 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1767 present.
- 1768 • If the ReleaseResource Message:MessageRecall element is present, then the
1769 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1770 • If a ReleaseResource Message:Funding element is present, then at least one of
1771 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

- 1772 • For each ReleaseResource Message:ResourceInformation element, the
1773 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1774 MUST be present.
- 1775 • If a ResourceInformation:ResponseInformation element is present, then the
1776 ResponseInformation:PrecedingResourceInfoElementID and
1777 ResponseInformation:ResponseType elements MUST be present.
- 1778 • If a ResourceInformation:ResponseInformation element is present and the
1779 ResponseInformation:ResponseType has a value of "Provisional", then at least one of
1780 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1781 MUST be present.
- 1782 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1783 MUST be present.
- 1784 • If a Resource:OwnershipInformation element is present, then at least one of
1785 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1786 be present.
- 1787 • If the ResourceInformation:AssignmentInformation element is present, then the
1788 AssignmentInformation:Quantity element MUST be present.
- 1789 • If the ResourceInformation:ScheduleInformation element is present, then the
1790 ScheduleInformation:ScheduleType element MUST be present and contain one of the
1791 following values:
 - 1792 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
1793 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1794 "EstimatedReturnDeparture", "ActualReturnDeparture" "RequestedReturnArrival",
1795 "EstimatedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo",
1796 "Current" or "Route".
- 1797
- 1798 The schema for a ReleaseResource message can be found in Appendix A.10.

1799 3.11.4 Message Flow

1800 The ReleaseResource message is sent by the Resource Consumer to the Resource Supplier, and
1801 typically follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource
1802 messages).

1803 The potential responses to this message include:

- 1804 • RequestInformation (See Section 3.8)
- 1805 • RequisitionResource (See Section 3.6)
- 1806 • Consumers waiting on the release of resources may send to a RequisitionResource Message
1807 after receipt of a ReleaseResource Message.

1808 The message may be canceled or updated through the ReleaseResource:MessageRecall element.
1809

1810 3.11.5 Message Example

1811 Below is an example ReleaseResource message. This message releases the Small Animal Sheltering
1812 Team committed in the example in Section 3.7.5.

1813

1814 [Note: The XML example shown in this section is informative only.]

```
1815 <?xml version="1.0" encoding="UTF-8"?>
1816 <ReleaseResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1817   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```

```

1818     EDXL-RMReleaseResource.xsd"
1819     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1820     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1821     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1822     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"  xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1823     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
1824     <MessageID>urn:au-qld-eoc:997985</MessageID>
1825     <SentDateTime>2006-03-29T10:17:00+10:00</SentDateTime>
1826     <MessageContentType>ReleaseResource</MessageContentType>
1827     <MessageDescription>
1828     Small Animal Sheltering Team will be flying back to Cairns this evening.
1829     </MessageDescription>
1830     <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1831     <IncidentInformation>
1832     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1833     </IncidentInformation>
1834     <ContactInformation>
1835     <rm:ContactRole>Sender</rm:ContactRole>
1836     <rm:AdditionalContactInformation>
1837     <xpil:PartyName>
1838     <xnl:PersonName>
1839     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1840     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1841     </xnl:PersonName>
1842     <xnl:OrganisationName>
1843     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1844     </xnl:OrganisationName>
1845     </xpil:PartyName>
1846     <xpil:ContactNumbers>
1847     <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1848     xpil:ContactHours="9:00AM - 5:00PM">
1849     <xpil:ContactNumberElement
1850     xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1851     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1852     <xpil:ContactNumberElement xpil:Type="LocalNumber">
1853     3000
1854     1234
1855     </xpil:ContactNumberElement>
1856     </xpil:ContactNumber>
1857     </xpil:ContactNumbers>
1858     <xpil:ElectronicAddressIdentifiers>
1859     <xpil:ElectronicAddressIdentifier>
1860     alexj@emergencyservices.gov.au
1861     </xpil:ElectronicAddressIdentifier>
1862     </xpil:ElectronicAddressIdentifiers>
1863     </rm:AdditionalContactInformation>
1864     </ContactInformation>
1865     <ResourceInformation>
1866     <ResourceInfoElementID>001</ResourceInfoElementID>
1867     <Resource>
1868     <TypeStructure>
1869     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1870     <rm:Value>Small Animal Sheltering Team</rm:Value>
1871     </TypeStructure>
1872     </Resource>
1873     <AssignmentInformation>
1874     <Quantity>
1875     <rm:MeasuredQuantity>
1876     <rm:Amount>1</rm:Amount>
1877     </rm:MeasuredQuantity>
1878     </Quantity>
1879     </AssignmentInformation>
1880     <ScheduleInformation>
1881     <ScheduleType>Current</ScheduleType>
1882     <Location>
1883     <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1884     <rm:Address>
1885     <xal:Country>
1886     <xal:NameElement>Australia</xal:NameElement>
1887     </xal:Country>
1888     <xal:AdministrativeArea>

```

```

1889     <xal:NameElement>QLD</xal:NameElement>
1890     </xal:AdministrativeArea>
1891     <xal:Locality>
1892         <xal:NameElement>Innisfail</xal:NameElement>
1893     </xal:Locality>
1894     <xal:Thoroughfare>
1895         <xal:NameElement>Downing St</xal:NameElement>
1896         <xal:Number>27</xal:Number>
1897     </xal:Thoroughfare>
1898     <xal:PostCode>
1899         <xal:Identifier>4860</xal:Identifier>
1900     </xal:PostCode>
1901     </rm:Address>
1902 </Location>
1903 </ScheduleInformation>
1904 <ScheduleInformation>
1905     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1906     <DateTime>2006-03-29T19:05:00+10:00</DateTime>
1907     <Location>
1908         <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1909     </Location>
1910 </ScheduleInformation>
1911 <ScheduleInformation>
1912     <ScheduleType>EstimatedReturnArrival</ScheduleType>
1913     <DateTime>2006-03-29T19:55:00+10:00</DateTime>
1914     <Location>
1915         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1916     </Location>
1917 </ScheduleInformation>
1918 </ResourceInformation>
1919 </ReleaseResource>

```


1920 **3.12 RequestReturn Message**

1921 **3.12.1 Overview**

1922 The “RequestReturn” message is used to request release (demobilization) of resource(s) back to its
 1923 original owning jurisdiction and location or to another location / assignment.

1924 **3.12.2 Element Reference Model**

1925 Figure 12 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestReturn
 1926 Message. The ERM shows the element-level details for the main entities in the RM.
 1927

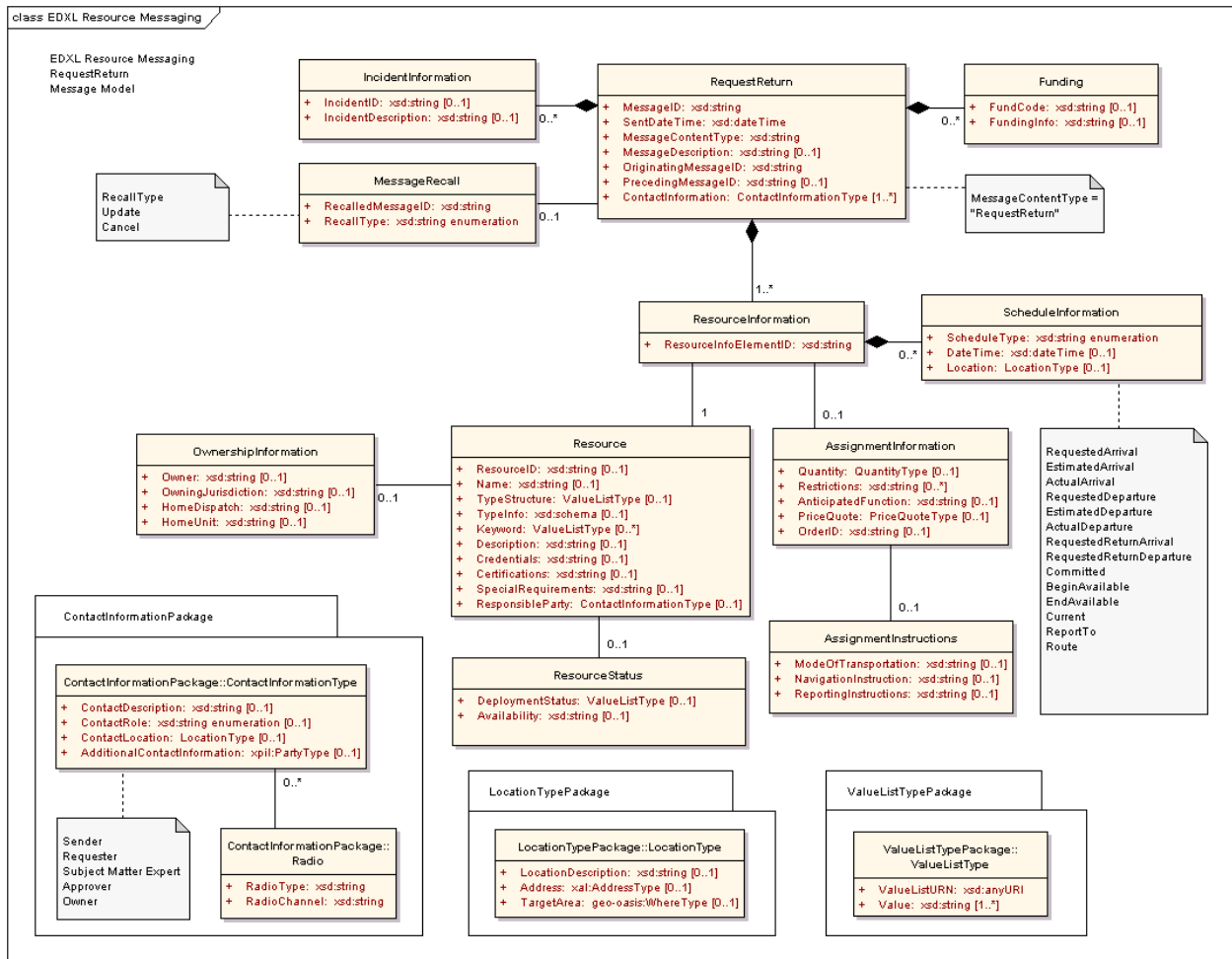


Figure 12: EDXL-RM ERM for RequestReturn Message

1928
 1929
 1930

1931 The following table outlines the element cardinalities for this message type.

1932

1933

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*</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

1934

1935 3.12.3 RequestReturn Message Rules

1936 The following rules apply to the above elements:

- 1937 • The RequestReturn:MessageID, ResourceMessage:SentDateTime,
1938 RequestReturn:MessageContentType, RequestReturn:OriginatingMessageID,
1939 RequestReturn:ContactInformation, and RequestReturn:ResourceInformation elements MUST be
1940 present.
- 1941 • The value of RequestReturn:MessageContentType MUST be "RequestReturn".
- 1942 • If a RequestReturn:IncidentInformation element is present, then at least one of
1943 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1944 present.
- 1945 • If the RequestReturn:MessageRecall element is present, then the
1946 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1947 • If a RequestReturn:Funding element is present, then at least one of Funding:FundCode and/or
1948 Funding:FundingInfo elements MUST be present.
- 1949 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1950 MUST be present.
- 1951 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1952 MUST be present for each ResourceInformation:Resource element present.

- 1953 • If a Resource:OwnershipInformation element is present, then at least one of
1954 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1955 be present.
- 1956 • If the ResourceInformation:ScheduleInformation element is present, then the
1957 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1958 values:
 - 1959 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
1960 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”,
1961 “RequestedReturnArrival”, “BeginAvailable”, “Committed”, “EndAvailable”, “Current”,
1962 “ReportTo” or “Route”.

1963

1964 The schema for a RequestReturn message can be found in Appendix A.11.

1965 3.12.4 Message Flow

1966 The RequestReturn message is sent by the Resource Supplier to the Resource Consumer, and typically
1967 follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource messages).

1968 The potential responses to this message include:

- 1969 • ResponseToRequestReturn (See Section 3.13)
- 1970 • ReleaseResource (See Section 3.11)
- 1971 • This includes Accept, Decline, and Provisional responses.

1972 The message may be canceled or updated through the RequestReturn:MessageRecall element.

1973

1974 3.12.5 Message Example

1975 Below is an example of a RequestReturn Message, in which one request return is shown:

- 1976 • Small Animal Sheltering Team (ResourceInfoElementID=001).

1977

1978 [Note: The XML example shown in this section is informative only.]

```

1979 <?xml version="1.0" encoding="UTF-8"?>
1980 <RequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1981   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1982     EDXL-RMRequestReturn.xsd"
1983   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1984   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1985   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1986   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1987   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
1988 <MessageID>urn:au-qld-eoc:997821</MessageID>
1989 <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
1990 <MessageContentType>RequestReturn</MessageContentType>
1991 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1992 <IncidentInformation>
1993   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1994 </IncidentInformation>
1995 <ContactInformation>
1996   <rm:ContactRole>Sender</rm:ContactRole>
1997   <rm:AdditionalContactInformation>
1998     <xpil:PartyName>
1999       <xnl:PersonName>
2000         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2001         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2002       </xnl:PersonName>
2003       <xnl:OrganisationName>
2004         <xnl:NameElement>EMA</xnl:NameElement>
  
```

2005 </xnl:OrganisationName>
 2006 </xpil:PartyName>
 2007 </rm:AdditionalContactInformation>
 2008 </ContactInformation>
 2009 <ResourceInformation>
 2010 <ResourceInfoElementID>001</ResourceInfoElementID>
 2011 <Resource>
 2012 <TypeStructure>
 2013 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
 2014 <rm:Value>Small Animal Sheltering Team</rm:Value>
 2015 </TypeStructure>
 2016 </Resource>
 2017 <AssignmentInformation>
 2018 <Quantity>
 2019 <rm:MeasuredQuantity>
 2020 <rm:Amount>1</rm:Amount>
 2021 </rm:MeasuredQuantity>
 2022 </Quantity>
 2023 </AssignmentInformation>
 2024 <ScheduleInformation>
 2025 <ScheduleType>RequestedReturnArrival</ScheduleType>
 2026 <DateTime>2006-03-29T20:00:00+10:00</DateTime>
 2027 <Location>
 2028 <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
 2029 </Location>
 2030 </ScheduleInformation>
 2031 </ResourceInformation>
 2032 </RequestReturn>

2033 **3.13 ResponseToRequestReturn Message**

2034 **3.13.1 Overview**

2035 The “ResponseToRequestReturn” message is used by Resource Consumers to respond to a
2036 RequestReturn message from Resource Suppliers. The response identifies the resources in the original
2037 request message and how the Resource Consumer has responded.

2038 **3.13.2 Element Reference Model**

2039 Figure 13 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2040 ResponseToRequestReturn Message. The ERM shows the element-level details for the main entities in
2041 the RM.

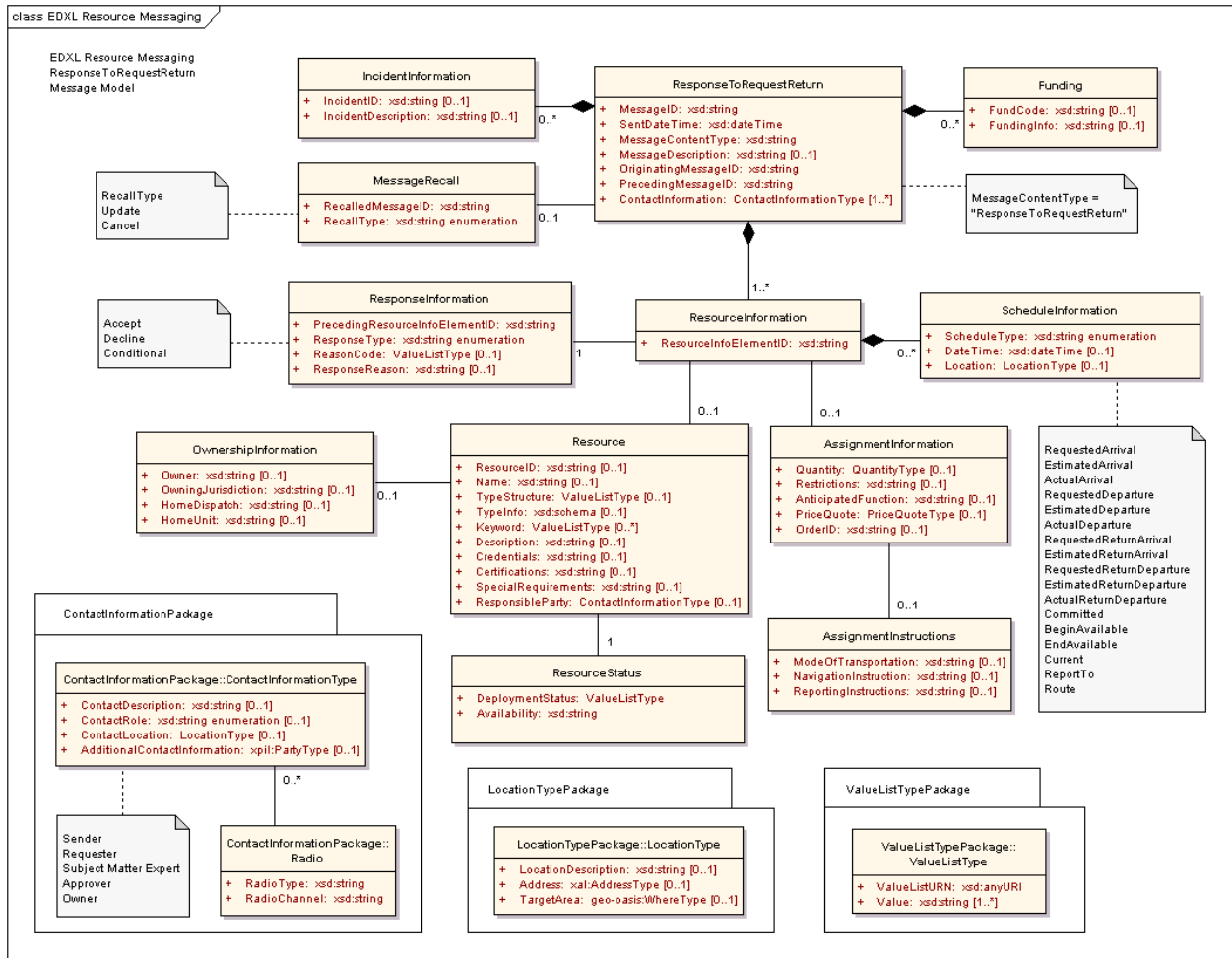


Figure 13: EDXL-RM ERM for ResponseToRequestReturn Message

2042
2043
2044

2045 The following table outlines the element cardinalities for this message type.

2046

2047

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

2048

2049 3.13.3 ResponseToRequestReturn Message Rules

2050 The following rules apply to the above elements:

- 2051 • The ResponseToRequestReturn:MessageID, ResponseToRequestReturn:SentDateTime,
2052 ResponseToRequestReturn:MessageContentType,
2053 ResponseToRequestReturn:OriginatingMessageID,
2054 ResponseToRequestReturn:PrecedingMessageID,
2055 ResponseToRequestReturn:ContactInformation, and
2056 ResponseToRequestReturn:ResourceInformation elements MUST be present.
- 2057 • The value of ResponseToRequestReturn:MessageContentType MUST be
2058 "ResponseToRequestReturn".
- 2059 • If a ResponseToRequestReturn:IncidentInformation element is present, then at least one of
2060 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2061 present.
- 2062 • If the ResponseToRequestReturn:MessageRecall element is present, then the
2063 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2064 • If a ResponseToRequestReturn:Funding element is present, then at least one of
2065 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2066 • The ResourceInformation:ResourceInfoElementID and
2067 ResourceInformation:ResponseInformation elements MUST be present.
- 2068 • The ResponseInformation:PrecedingResourceInfoElementID and
2069 ResponseInformation:ResponseType elements MUST be present.
- 2070 • If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one
2071 of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2072 MUST be present.
- 2073 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2074 MUST be present for each ResourceInformation:Resource element present.
- 2075 • The Resource:ResourceStatus element MUST be present for each
2076 ResourceInformation:Resource element present.
- 2077 • If a Resource:OwnershipInformation element is present, then at least one of
2078 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2079 be present.
- 2080 • The ResourceStatus:DeploymentStatus and ResourceStatus:Availability elements MUST be
2081 present.
- 2082 • If the ResourceInformation:ScheduleInformation element is present, then the
2083 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2084 values:
 - 2085 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
2086 “EstimatedDeparture”, “ActualDeparture”, RequestedReturnArrival”,
2087 “EstimatedReturnArrival”, “BeginAvailable”, “RequestedReturnDeparture”,
2088 “EstimatedReturnDeparture”, “ActualReturnDeparture”, “EndAvailable”, “Committed”,
2089 “Current”, “ReportTo” or “Route.”
- 2090
- 2091 The schema for a ResponseToRequestReturn message can be found in Appendix A.12.

2092 3.13.4 Message Flow

2093 The ResponseToRequestReturn message is sent by a Resource Consumer in response to an original
2094 RequestReturn message sent by the Resource Supplier.

2095 The potential responses to this message include:

- 2096 • RequestReturn (See Section 3.12)
- 2097 • The Supplier may send this response when the Consumer has specified return conditions with
2098 which the Supplier is not in agreement.

2099 The message will typically be followed by a ReleaseResource message (See Section 3.11) when the
2100 Resource Consumer is ready to return the resource to the Resource Supplier.

2101 The message may be canceled or updated through the ResponseToRequestReturn:MessageRecall
2102 element.

2103

2104 3.13.5 Message Example

2105 Below is an example of a ResponseToRequestReturn message. This is an example response to the
2106 RequestReturn message shown in Section.3.12.5 The sender of the message is the original resource
2107 requester (Resource Consumer). The response is an “Accept” (i.e., the Resource Consumer agrees to
2108 return the resource according to the specified schedule).

2109

2110 [Note: The XML example shown in this section is informative only.]

```
2111 <?xml version="1.0" encoding="UTF-8"?>
2112 <ResponseToRequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2113   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2114     EDXL-RMResponseToRequestReturn.xsd"
2115   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2116   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2117   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2118   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2119   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2120 <MessageID>urn:au-qld-eoc:997981</MessageID>
2121 <SentDateTime>2006-03-28T16:17:00+10:00</SentDateTime>
2122 <MessageContentType>ResponseToRequestReturn</MessageContentType>
2123 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2124 <PrecedingMessageID>urn:au-qld-eoc:997821</PrecedingMessageID>
2125 <IncidentInformation>
2126   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2127 </IncidentInformation>
2128 <ContactInformation>
2129   <rm:ContactRole>Sender</rm:ContactRole>
2130   <rm:AdditionalContactInformation>
2131     <xpil:PartyName>
2132       <xnl:PersonName>
2133         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2134         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2135       </xnl:PersonName>
2136       <xnl:OrganisationName>
2137         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2138       </xnl:OrganisationName>
2139     </xpil:PartyName>
2140   </rm:AdditionalContactInformation>
2141 </ContactInformation>
2142 <ResourceInformation>
2143   <ResourceInfoElementID>001</ResourceInfoElementID>
2144   <ResponseInformation>
2145     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2146     <rm:ResponseType>Accept</rm:ResponseType>
2147   </ResponseInformation>
2148 </ResourceInformation>
2149 </ResponseToRequestReturn>
```

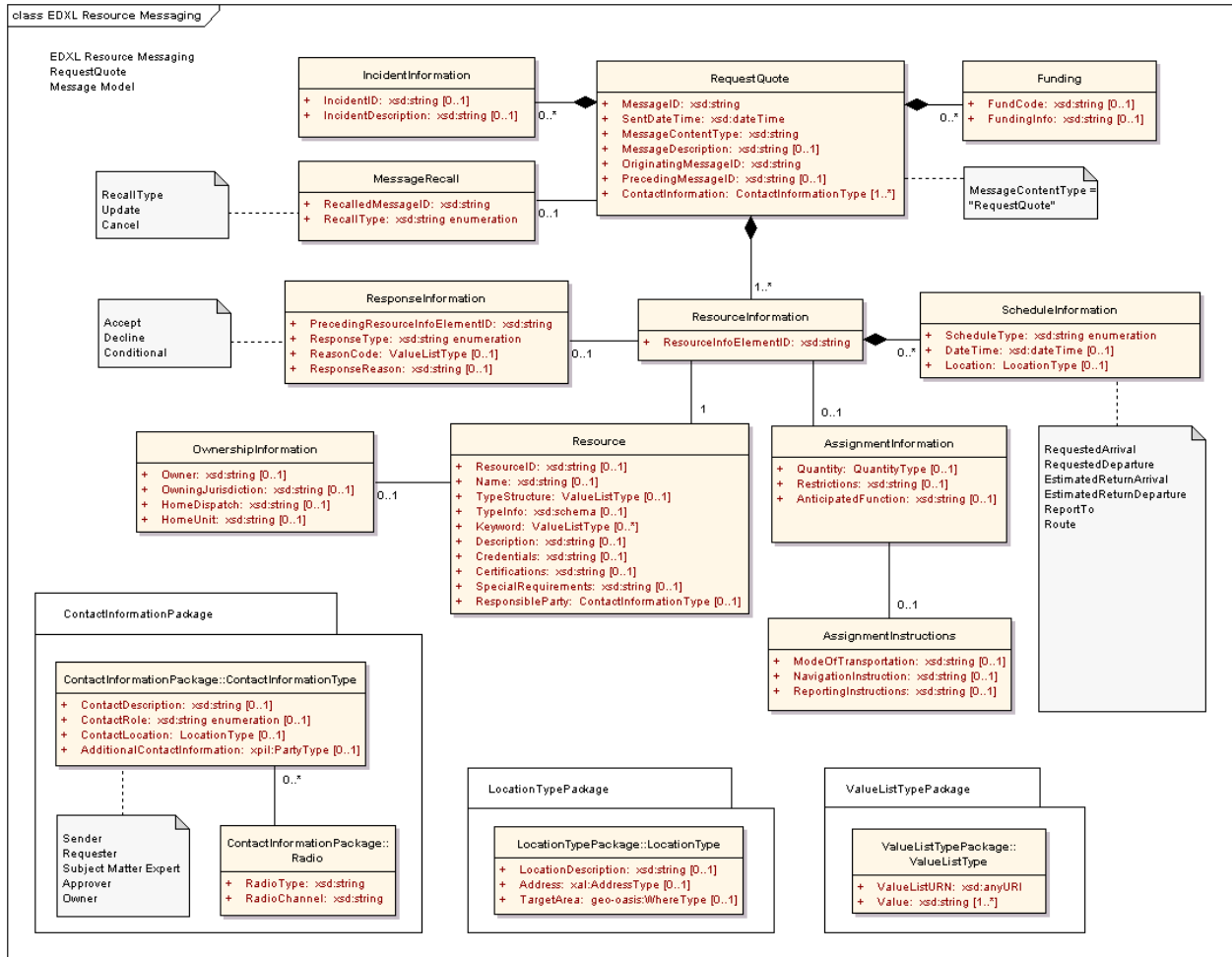

2150 **3.14 RequestQuote Message**

2151 **3.14.1 Overview**

2152 The “RequestQuote” message is used by the Resource Consumer to request a price quote from the
2153 Resource Supplier.

2154 **3.14.2 Element Reference Model**

2155 Figure 14 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestQuote
2156 Message. The ERM shows the element-level details for the main entities in the RM.



2157
2158 *Figure 14: EDXL-RM ERM for RequestQuote Message*
2159

2160 The following table outlines the element cardinalities for this message type.

2161

2162

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, ReasonCode, ResponseReason
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

2163

2164 3.14.3 RequestQuote Message Rules

2165 The following rules apply to the above elements:

- 2166 • The RequestQuote:MessageID, RequestQuote:SentDateTime,
2167 RequestQuote:MessageContentType, RequestQuote:OriginatingMessageID,
2168 RequestQuote:ContactInformation, and RequestQuote:ResourceInformation elements MUST be
2169 present.
- 2170 • The value of RequestQuote:MessageContentType MUST be "RequestQuote".
- 2171 • If a RequestQuote:IncidentInformation element is present, then at least one of
2172 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2173 present.
- 2174 • If the RequestQuote:MessageRecall element is present, then the
2175 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2176 • If a RequestQuote:Funding element is present, then at least one of Funding:FundCode and/or
2177 Funding:FundingInfo elements MUST be present.
- 2178 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2179 MUST be present.

- 2180 • If the ResourceInformation:ResponseInformation element is present, then the
2181 ResponseInformation:PrecedingResourceInfoElementID" and
2182 "ResponseInformation:ResponseType MUST be present.
 - 2183 • If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
2184 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2185 MUST be present.
 - 2186 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2187 MUST be present for each ResourceInformation:Resource element present.
 - 2188 • If a Resource:OwnershipInformation element is present, then at least one of
2189 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2190 be present.
 - 2191 • If the ResourceInformation:ScheduleInformation element is present, then the
2192 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2193 values:
 - 2194 • "RequestedArrival", "RequestedDeparture", "EstimatedReturnDeparture",
2195 "EstimatedReturnArrival", "ReportTo" or "Route".
- 2196
- 2197 The schema for a RequestQuote message can be found in Appendix A.13.

2198 3.14.4 Message Flow

- 2199 The RequestQuote message is usually an initial message created and sent by the Resource Consumer to
2200 any number of Resource Suppliers.
- 2201 The potential responses to this message include:
- 2202 • ResponseToRequestQuote (See 3.15)
 - 2203 • This includes Accept, Decline, and Provisional responses.
- 2204 The message may be canceled or updated through the RequestQuote:MessageRecall element.
2205

2206 3.14.5 Message Example

2207 Below is an example RequestQuote message. This message requests quotes for a "Debris Management
2208 Team" (ResourceInfoElementID=001) and two "All Terrain Cranes" (ResourceInfoElementID=002).

2209

2210 [Note: The XML example shown in this section is informative only.]

```

2211 <?xml version="1.0" encoding="UTF-8"??>
2212 <RequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2213   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2214     EDXL-RMRequestQuote.xsd"
2215   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2216   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2217   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2218   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2219   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2220 <MessageID>urn:au-qld-eoc:77388</MessageID>
2221 <SentDateTime>2006-03-30T10:45:00+10:00</SentDateTime>
2222 <MessageContentType>RequestQuote</MessageContentType>
2223 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2224 <IncidentInformation>
2225   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2226 </IncidentInformation>
2227 <ContactInformation>
2228   <rm:ContactRole>Sender</rm:ContactRole>
2229   <rm:AdditionalContactInformation>

```

```

2230     <xpil:PartyName>
2231         <xnl:PersonName>
2232             <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2233             <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2234         </xnl:PersonName>
2235         <xnl:OrganisationName>
2236             <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2237         </xnl:OrganisationName>
2238     </xpil:PartyName>
2239     <xpil:ContactNumbers>
2240         <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
2241             xpil:ContactHours="9:00AM - 5:00PM">
2242             <xpil:ContactNumberElement
2243                 xpil:Type="CountryCode">61</xpil:ContactNumberElement>
2244             <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
2245             <xpil:ContactNumberElement xpil:Type="LocalNumber">
2246                 3000
2247                 1234
2248             </xpil:ContactNumberElement>
2249         </xpil:ContactNumber>
2250     </xpil:ContactNumbers>
2251     <xpil:ElectronicAddressIdentifiers>
2252         <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
2253         </xpil:ElectronicAddressIdentifier>
2254     </xpil:ElectronicAddressIdentifiers>
2255 </rm:AdditionalContactInformation>
2256 </ContactInformation>
2257 <ResourceInformation>
2258     <ResourceInfoElementID>001</ResourceInfoElementID>
2259     <Resource>
2260         <TypeStructure>
2261             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2262             <rm:Value>Debris Management Team</rm:Value>
2263         </TypeStructure>
2264         <Description>
2265             5 person team to clear roads of debris incl. fallen trees. </Description>
2266         <SpecialRequirements>
2267             Team to supply own equipment, such as trucks and chainsaws
2268         </SpecialRequirements>
2269     </Resource>
2270 </AssignmentInformation>
2271     <Quantity>
2272         <rm:MeasuredQuantity>
2273             <rm:Amount>1</rm:Amount>
2274         </rm:MeasuredQuantity>
2275     </Quantity>
2276 </AssignmentInstructions>
2277     <rm:ModeOfTransportation>Team's own trucks</rm:ModeOfTransportation>
2278 </AssignmentInstructions>
2279 </AssignmentInformation>
2280 <ScheduleInformation>
2281     <ScheduleType>ReportTo</ScheduleType>
2282     <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2283     <Location>
2284         <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2285         <rm:Address>
2286             <xal:Country>
2287                 <xal:NameElement>Australia</xal:NameElement>
2288             </xal:Country>
2289             <xal:AdministrativeArea>
2290                 <xal:NameElement>QLD</xal:NameElement>
2291             </xal:AdministrativeArea>
2292             <xal:Locality>
2293                 <xal:NameElement>Innisfail</xal:NameElement>
2294             </xal:Locality>
2295             <xal:Thoroughfare>
2296                 <xal:NameElement>Rankin St</xal:NameElement>
2297                 <xal:Number>70</xal:Number>
2298             </xal:Thoroughfare>
2299         </rm:Address>
2300     </Location>

```

```

2301     </ScheduleInformation>
2302     <ScheduleInformation>
2303         <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2304         <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2305     </ScheduleInformation>
2306 </ResourceInformation>
2307 <ResourceInformation>
2308     <ResourceInfoElementID>002</ResourceInfoElementID>
2309     <Resource>
2310         <TypeStructure>
2311             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2312             <rm:Value>All Terrain Crane</rm:Value>
2313         </TypeStructure>
2314         <Description> Crane with minimum boom reach of 150 feet. </Description>
2315     </Resource>
2316     <AssignmentInformation>
2317         <Quantity>
2318             <rm:MeasuredQuantity>
2319                 <rm:Amount>2</rm:Amount>
2320             </rm:MeasuredQuantity>
2321         </Quantity>
2322     </AssignmentInformation>
2323     <ScheduleInformation>
2324         <ScheduleType>ReportTo</ScheduleType>
2325         <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2326         <Location>
2327             <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2328             <rm:Address>
2329                 <xal:Country>
2330                     <xal:NameElement>Australia</xal:NameElement>
2331                 </xal:Country>
2332                 <xal:AdministrativeArea>
2333                     <xal:NameElement>QLD</xal:NameElement>
2334                 </xal:AdministrativeArea>
2335                 <xal:Locality>
2336                     <xal:NameElement>Innisfail</xal:NameElement>
2337                 </xal:Locality>
2338                 <xal:Thoroughfare>
2339                     <xal:NameElement>Rankin St</xal:NameElement>
2340                     <xal:Number>70</xal:Number>
2341                 </xal:Thoroughfare>
2342             </rm:Address>
2343         </Location>
2344     </ScheduleInformation>
2345     <ScheduleInformation>
2346         <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2347         <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2348     </ScheduleInformation>
2349 </ResourceInformation>
2350 </RequestQuote>

```

2351 **3.15 ResponseToRequestQuote Message**

2352 **3.15.1 Overview**

2353 The “ResponseToRequestQuote” message is used by the Resource Supplier to respond to a
2354 RequestQuote Message. The supplier may respond with pricing or decline to respond with pricing (i.e. a
2355 response that says that the Resource Supplier is unable to supply a requested quote). The Resource
2356 Supplier may provide quotes for several alternative resources that match a single resource request.

2357 **3.15.2 Element Reference Model**

2358 Figure 15 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2359 ResponseToRequestQuote Message. The ERM shows the element-level details for the main entities in
2360 the RM.

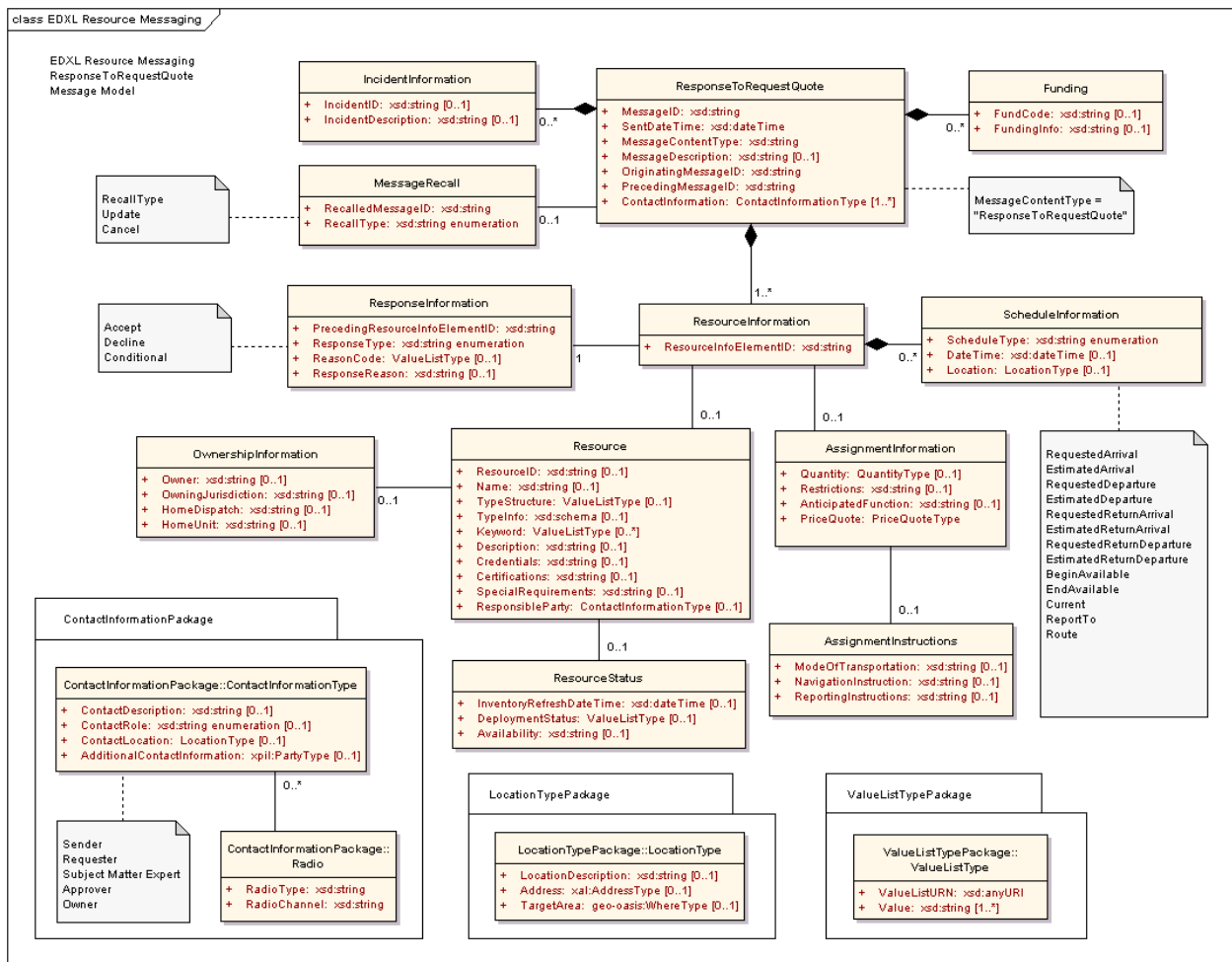


Figure 15: EDXL-RM ERM for ResponseToRequestQuote Message

2361
2362
2363

2364 The following table outlines the element cardinalities for this message type.

2365

2366

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*, 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, AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation, NavigationInstructions, ReportingInstructions</i>
ScheduleInformation	ScheduleType[^], DateTime, Location

2367

2368 3.15.3 ResponseToRequestQuote Message Rules

2369 The following rules apply to the above elements:

- 2370 • The ResponseToRequestQuote:MessageID, ResponseToRequestQuote:SentDateTime,
2371 ResponseToRequestQuote:MessageContentType,
2372 ResponseToRequestQuote:OriginatingMessageID,
2373 ResponseToRequestQuote:PrecedingMessageID,
2374 ResponseToRequestQuote:ContactInformation, and
2375 ResponseToRequestQuote:ResourceInformation elements MUST be present.
- 2376 • The value of ResponseToRequestQuote:MessageContentType MUST be "ResponseToRequest
2377 Quote".
- 2378 • If a ResponseToRequestQuote:IncidentInformation element is present, then at least one of
2379 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2380 present.
- 2381 • If the ResponseToRequestQuote:MessageRecall element is present, then the
2382 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2383 • If a ResponseToRequestQuote:Funding element is present, then at least one of
2384 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2385 • The ResourceInformation:ResourceInfoElementID and
2386 ResourceInformation:ResponseInformation elements MUST be present.
- 2387 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
2388 the ResourceInformation:Resource element MUST be present.
- 2389 • The ResponseInformation:PrecedingResourceInfoElementID and
2390 ResponseInformation:ResponseType elements MUST be present.
- 2391 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
2392 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2393 MUST be present.
- 2394 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2395 MUST be present for each ResourceInformation:Resource element present.
- 2396 • If a Resource:OwnershipInformation element is present, then at least one of
2397 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be
2398 present.
- 2399 • If a ResourceInformation:AssignmentInformation element is present, then the
2400 AssignmentInformation:PriceQuote element MUST be present.
- 2401 • If the ResourceInformation:ScheduleInformation element is present, then the
2402 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2403 values:
 - 2404 • “EstimatedArrival”, “RequestedArrival”, “RequestedDeparture”, “EstimatedDeparture”,
2405 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “RequestedReturnArrival”,
2406 “EstimatedReturnArrival”, “BeginAvailable”, “EndAvailable”, “Current”, “ReportTo” or “Route”.
- 2407
- 2408 The schema for a ResponseToRequestQuote message can be found in Appendix A.14.

2409 3.15.4 Message Flow

2410 The ResponseToRequestQuote message is sent by the Resource Supplier to the Resource Consumer in
2411 response to a RequestQuote message.

2412 The potential responses to this message include:

- 2413 • Request Information (See Section 3.8)
- 2414 • RequisitionResource (See Section 3.6).

2415 The message may be canceled or updated through the ResponseToRequestQuote:MessageRecall
2416 element.

2417

2418 3.15.5 Message Example

2419 Below is an example ResponseToRequestQuote message. The message is a possible response to the
2420 RequestQuote message shown in Section 3.14.5. The first quote request (“Debris Management Team”,
2421 ResourceInfoElementID=001) is accepted, while the second (“All Terrain Crane”,
2422 ResourceInfoElementID=002) is declined.

2423

2424 [Note: The XML example shown in this section is informative only.]

```
2425 <?xml version="1.0" encoding="UTF-8" ?>
2426 <ResponseToRequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2427     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```



```

2428     EDXL-RMResponseToRequestQuote.xsd"
2429     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2430     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2431     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2432     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2433     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2434     <MessageID>urn:au-qld-eoc:77396</MessageID>
2435     <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2436     <MessageContentType>ResponseToRequestQuote</MessageContentType>
2437     <MessageDescription>
2438         This message provides a quote for the services of a debris management team
2439         for the requested period of 3 weeks. We do not have any all-terrain cranes, and
2440         therefore unable to quote on this element of the request.
2441     </MessageDescription>
2442     <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2443     <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
2444     <IncidentInformation>
2445         <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2446     </IncidentInformation>
2447     <ContactInformation>
2448         <rm:ContactRole>Sender</rm:ContactRole>
2449         <rm:AdditionalContactInformation>
2450             <xpil:PartyName>
2451                 <xnl:PersonName>
2452                     <xnl:NameElement xnl:ElementType="FirstName">Alison</xnl:NameElement>
2453                     <xnl:NameElement xnl:ElementType="LastName">Smith</xnl:NameElement>
2454                 </xnl:PersonName>
2455                 <xnl:OrganisationName>
2456                     <xnl:NameElement>QBuild</xnl:NameElement>
2457                 </xnl:OrganisationName>
2458             </xpil:PartyName>
2459         </rm:AdditionalContactInformation>
2460     </ContactInformation>
2461     <ContactInformation>
2462         <rm:ContactRole>Requester</rm:ContactRole>
2463         <rm:AdditionalContactInformation>
2464             <xpil:PartyName>
2465                 <xnl:PersonName>
2466                     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2467                     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2468                 </xnl:PersonName>
2469                 <xnl:OrganisationName>
2470                     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2471                 </xnl:OrganisationName>
2472             </xpil:PartyName>
2473         </rm:AdditionalContactInformation>
2474     </ContactInformation>
2475     <ResourceInformation>
2476         <ResourceInfoElementID>001</ResourceInfoElementID>
2477         <ResponseInformation>
2478             <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2479             <rm:ResponseType>Accept</rm:ResponseType>
2480         </ResponseInformation>
2481         <Resource>
2482             <TypeStructure>
2483                 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2484                 <rm:Value>Debris Management Team</rm:Value>
2485             </TypeStructure>
2486             <Description>
2487                 5 person team to clear roads of debris incl. fallen trees. </Description>
2488             <SpecialRequirements>
2489                 Team to supply own equipment, such as trucks and chainsaws
2490             </SpecialRequirements>
2491         </Resource>
2492         <AssignmentInformation>
2493             <Quantity>
2494                 <rm:MeasuredQuantity>
2495                     <rm:Amount>1</rm:Amount>
2496                 </rm:MeasuredQuantity>
2497             </Quantity>
2498             <PriceQuote>

```

```

2499     <rm:QuantityText>Daily rate: $2100</rm:QuantityText>
2500     <rm:QuantityText>Total before tax: $31500</rm:QuantityText>
2501     <rm:QuantityText>Tax: $3150</rm:QuantityText>
2502     <rm:QuantityText>Total including tax: $34650</rm:QuantityText>
2503     <rm:QuantityText>
2504         NOTES: Accommodation for the team will be organised and paid by us. Team will
2505         work Mon-Fri for 3 weeks.Total including tax: $34650</rm:QuantityText>
2506     </PriceQuote>
2507 </AssignmentInformation>
2508 <ScheduleInformation>
2509     <ScheduleType>BeginAvailable</ScheduleType>
2510     <DateTime>2006-03-31T15:00:00+10:00</DateTime>
2511 </ScheduleInformation>
2512 <ScheduleInformation>
2513     <ScheduleType>ReportTo</ScheduleType>
2514     <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2515     <Location>
2516         <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2517         <rm:Address>
2518             <xal:Country>
2519                 <xal:NameElement>Australia</xal:NameElement>
2520             </xal:Country>
2521             <xal:AdministrativeArea>
2522                 <xal:NameElement>QLD</xal:NameElement>
2523             </xal:AdministrativeArea>
2524             <xal:Locality>
2525                 <xal:NameElement>Innisfail</xal:NameElement>
2526             </xal:Locality>
2527             <xal:Thoroughfare>
2528                 <xal:NameElement>Rankin St</xal:NameElement>
2529                 <xal:Number>70</xal:Number>
2530             </xal:Thoroughfare>
2531         </rm:Address>
2532     </Location>
2533 </ScheduleInformation>
2534 <ScheduleInformation>
2535     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2536     <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2537 </ScheduleInformation>
2538 </ResourceInformation>
2539 <ResourceInformation>
2540     <ResourceInfoElementID>002</ResourceInfoElementID>
2541     <ResponseInformation>
2542         <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
2543         <rm:ResponseType>Decline</rm:ResponseType>
2544     </ResponseInformation>
2545 </ResourceInformation>
2546 </ResponseToRequestQuote>

```

2547 **3.16 RequestResourceDeploymentStatus Message**

2548 **3.16.1 Overview**

2549 The “RequestResourceDeploymentStatus” message is used to request the current status of one or more
 2550 deployed resources. It can be sent by the Resource Supplier to the Resource Consumer (e.g., to check
 2551 the status of the resource after a “ReleaseResource” message) or by the Resource Consumer to the
 2552 Resource Supplier (e.g., to track the progress of a resource after a “RequisitionResource” message).

2553 **3.16.2 Element Reference Model**

2554 Figure 16 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2555 RequestResourceDeploymentStatus Message. The ERM shows the element-level details for the main
 2556 entities in the RM.

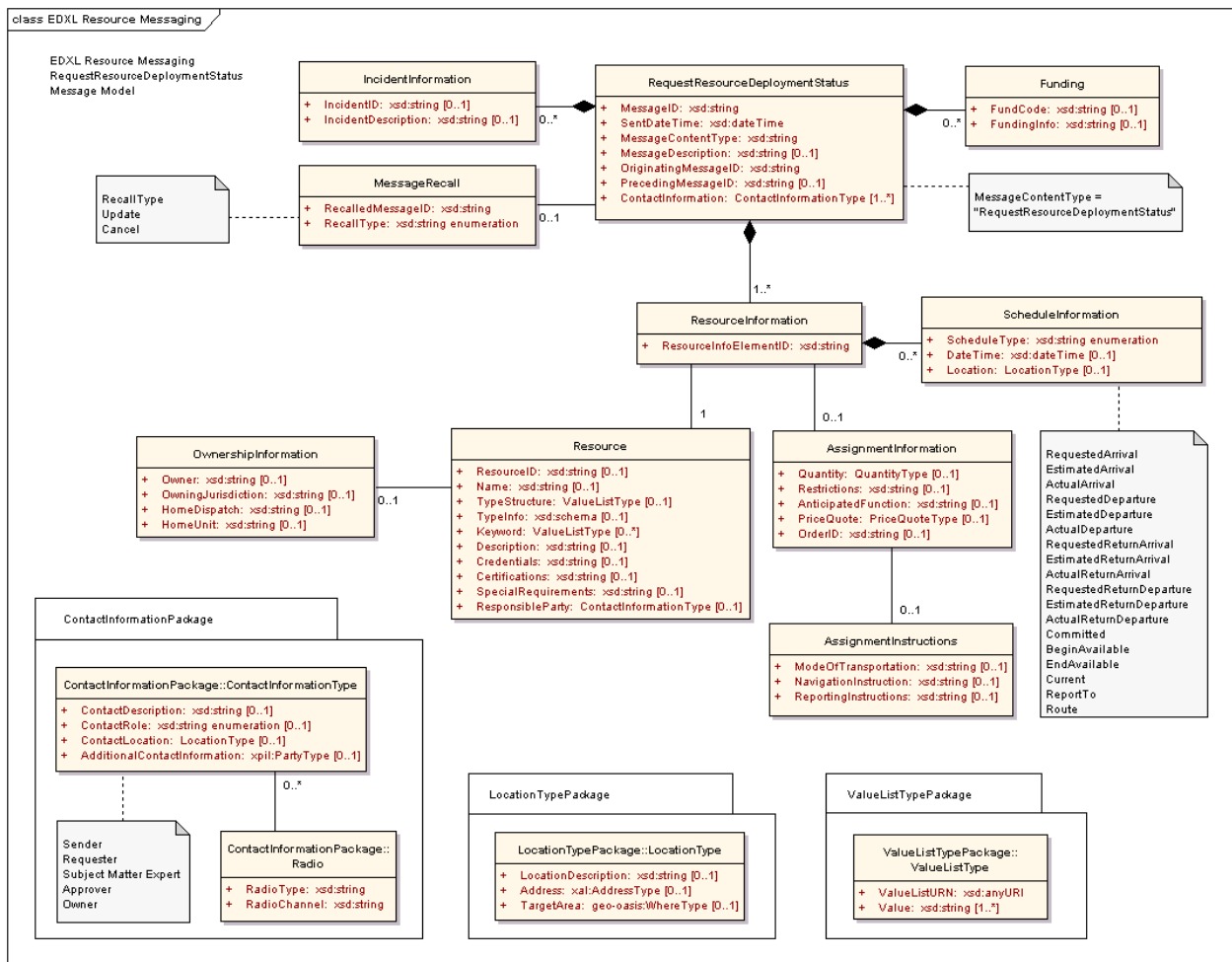


Figure 16: EDXL-RM ERM for RequestResourceDeploymentStatus Message

2557
 2558
 2559

2560 The following table outlines the element cardinalities for this message type.

2561

2562

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

2563

2564 3.16.3 RequestResourceDeploymentStatus Message Rules

2565 The following rules apply to the above elements:

- 2566 • The RequestResourceDeploymentStatus:MessageID,
2567 RequestResourceDeploymentStatus:SentDateTime,
2568 RequestResourceDeploymentStatus:MessageContentType,
2569 RequestResourceDeploymentStatus:OriginatingMessageID,
2570 RequestResourceDeploymentStatus:ContactInformation, and
2571 RequestResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2572 • The value of RequestResourceDeploymentStatus:MessageContentType MUST be
2573 "RequestResourceDeploymentStatus".
- 2574 • If a RequestResourceDeploymentStatus:IncidentInformation element is present, then at least one
2575 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2576 be present.
- 2577 • If the RequestResourceDeploymentStatus:MessageRecall element is present, then the
2578 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2579 • If a RequestResourceDeploymentStatus:Funding element is present, then at least one of
2580 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2581 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2582 MUST be present.

- 2583 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2584 MUST be present for each ResourceInformation:Resource element present.
- 2585 • If a Resource:OwnershipInformation element is present, then at least one of
2586 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2587 be present.
- 2588 • If the ResourceInformation:ScheduleInformation element is present, then the
2589 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2590 values:
 - 2591 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2592 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2593 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2594 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
2595 "Current", "ReportTo" or "Route".
- 2596
- 2597 The schema for a RequestResourceDeploymentStatus message can be found in Appendix A.15.

2598 3.16.4 Message Flow

- 2599 The RequestResourceDeploymentStatus message can be sent from the Resource Supplier to the
2600 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2601 resource is requisitioned or committed.
- 2602 The potential responses to this message include:
 - 2603 • ReportResourceDeploymentStatus (See Section 3.17)
 - 2604 • This may include Accept, Decline, and Provisional responses.
- 2605 The message may be canceled or updated through the
2606 RequestResourceDeploymentStatus:MessageRecall element.
- 2607

2608 3.16.5 Message Example

- 2609 Below is an example RequestResourceDeploymentStatus message. This message requests the
2610 deployment status of the "Small Animal Sheltering Team"; it follows on from the example
2611 CommitResource message in Section 3.7.5, and precedes the ReleaseResource message in Section
2612 3.11.5 .

2613
2614 [Note: The XML example shown in this section is informative only.]

```

2615 <?xml version="1.0" encoding="UTF-8"??>
2616 <RequestResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2617   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2618     EDXL-RMRequestResourceDeploymentStatus.xsd"
2619   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2620   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2621   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2622   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2623   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2624   <MessageID>urn:au-qld-eoc:997958</MessageID>
2625   <SentDateTime>2006-03-25T09:05:00+10:00</SentDateTime>
2626   <MessageContentType>RequestResourceDeploymentStatus</MessageContentType>
2627   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2628   <IncidentInformation>
2629     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2630   </IncidentInformation>
2631   <ContactInformation>
2632     <rm:ContactRole>Sender</rm:ContactRole>
2633     <rm:AdditionalContactInformation>

```

```

2634     <xpil:PartyName>
2635         <xnl:PersonName>
2636             <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2637             <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2638         </xnl:PersonName>
2639         <xnl:OrganisationName>
2640             <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2641         </xnl:OrganisationName>
2642     </xpil:PartyName>
2643 </rm:AdditionalContactInformation>
2644 </ContactInformation>
2645 <ResourceInformation>
2646     <ResourceInfoElementID>001</ResourceInfoElementID>
2647     <Resource>
2648         <TypeStructure>
2649             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2650             <rm:Value>Small Animal Sheltering Team</rm:Value>
2651         </TypeStructure>
2652     </Resource>
2653 </AssignmentInformation>
2654     <Quantity>
2655         <rm:MeasuredQuantity>
2656             <rm:Amount>1</rm:Amount>
2657         </rm:MeasuredQuantity>
2658     </Quantity>
2659 </AssignmentInformation>
2660 <ScheduleInformation>
2661     <ScheduleType>EstimatedArrival</ScheduleType>
2662     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
2663     <Location>
2664         <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2665     </Location>
2666 </ScheduleInformation>
2667 <ScheduleInformation>
2668     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2669     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
2670 </ScheduleInformation>
2671 <ScheduleInformation>
2672     <ScheduleType>Committed</ScheduleType>
2673     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
2674 </ScheduleInformation>
2675 </ResourceInformation>
2676 </RequestResourceDeploymentStatus>

```

2677 **3.17 ReportResourceDeploymentStatus Message**

2678 **3.17.1 Overview**

2679 The “ReportResourceDeploymentStatus” message is used to report on the current status of any deployed
 2680 resource. The message can be sent from the Resource Supplier to the Resource Consumer, or from the
 2681 Resource Consumer to the Resource Supplier.

2682 **3.17.2 Element Reference Model**

2683 Figure 17 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2684 ReportResourceDeploymentStatus Message. The ERM shows the element-level details for the main
 2685 entities in the RM.

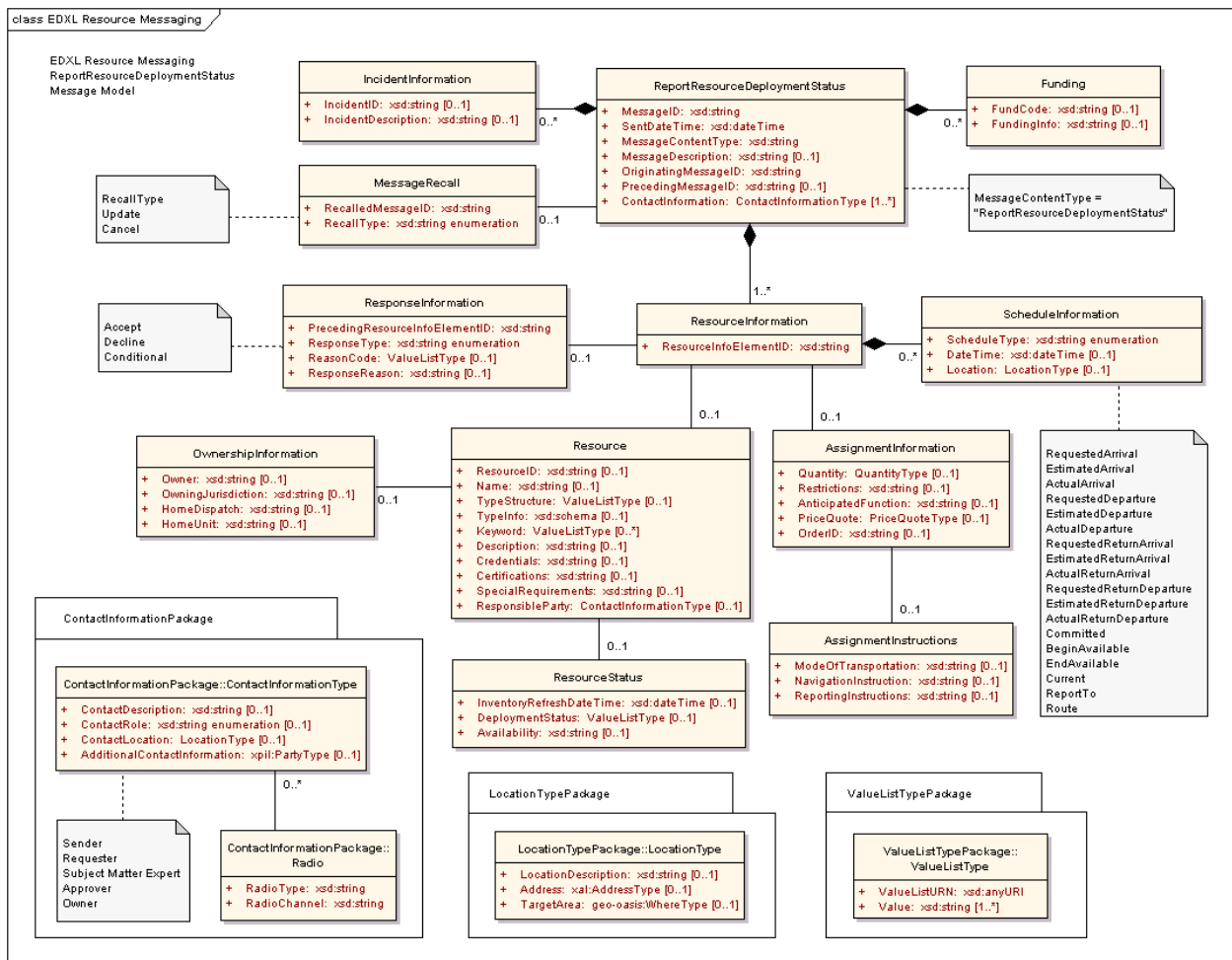


Figure 17: EDXL-RM ERM for ReportResourceDeploymentStatus Message

2686
 2687
 2688

2689 The following table outlines the element cardinalities for this message type.

2690

2691

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

2692

2693 3.17.3 ReportResourceDeploymentStatus Message Rules

2694 The following rules apply to the above elements:

- 2695 • The ReportResourceDeploymentStatus:MessageID,
2696 ReportResourceDeploymentStatus:SentDateTime,
2697 ReportResourceDeploymentStatus:MessageContentType,
2698 ReportResourceDeploymentStatus:OriginatingMessageID,
2699 ReportResourceDeploymentStatus:ContactInformation, and
2700 ReportResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2701 • The value of ReportResourceDeploymentStatus:MessageContentType MUST be
2702 "ReportResourceDeploymentStatus".
- 2703 • If a ReportResourceDeploymentStatus:IncidentInformation element is present, then at least one
2704 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2705 be present.
- 2706 • If the ReportResourceDeploymentStatus:MessageRecall element is present, then the
2707 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2708 • If a ReportResourceDeploymentStatus:Funding element is present, then at least one of
2709 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2710 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2711 MUST be present.
- 2712 • If the ResourceInformation:ResponseInformation element is present, then the
2713 ResponseInformation:PrecedingResourceInfoElementID and
2714 ResponseInformation:ResponseType elements MUST be present.
- 2715 • If the ResponseInformation:ResponseType element has a value of "Provisional", at least one of
2716 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2717 MUST be present.
- 2718 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2719 MUST be present for each ResourceInformation:Resource element present.
- 2720 • If a Resource:OwnershipInformation element is present, then at least one of
2721 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2722 be present.
- 2723 • If the ResourceInformation:ScheduleInformation element is present, then the
2724 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2725 values:
- 2726 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2727 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2728 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2729 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
2730 "Current", "ReportTo" or "Route".

2731
2732 The schema for a ReportResourceDeploymentStatus message can be found in Appendix A.16.

2733 3.17.4 Message Flow

2734 The ReportResourceDeploymentStatus message can be sent from the Resource Supplier to the
2735 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2736 resource is requisitioned or committed. The message MAY be sent in response to an earlier
2737 RequestResourceDeploymentStatus message. (See Section 3.16)

2738 The message may be canceled or updated through the EDXLResourceMessage:MessageRecall element.
2739

2740 3.17.5 Message Example

2741 Below is an example ReportResourceDeploymentStatus message. This message shows a possible
2742 response to the RequestResourceDeploymentStatus message in Section 3.16.

2743 [Note: The XML example shown in this section is informative only.]

```
2744 <?xml version="1.0" encoding="UTF-8"?>
2745 <ReportResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2746   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2747     EDXL-RMReportResourceDeploymentStatus.xsd"
2748   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2749   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2750   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2751   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2752   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2753 <MessageID>urn:au-qld-eoc:997967</MessageID>
2754 <SentDateTime>2006-03-25T09:16:00+10:00</SentDateTime>
2755 <MessageContentType>ReportResourceDeploymentStatus</MessageContentType>
2756 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2757 <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>
```

```

2758 <IncidentInformation>
2759   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2760 </IncidentInformation>
2761 <ContactInformation>
2762   <rm:ContactRole>Sender</rm:ContactRole>
2763   <rm:AdditionalContactInformation>
2764     <xpil:PartyName>
2765       <xnl:PersonName>
2766         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2767         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2768       </xnl:PersonName>
2769       <xnl:OrganisationName>
2770         <xnl:NameElement>EMA</xnl:NameElement>
2771       </xnl:OrganisationName>
2772     </xpil:PartyName>
2773   </rm:AdditionalContactInformation>
2774 </ContactInformation>
2775 <ContactInformation>
2776   <rm:ContactRole>Requester</rm:ContactRole>
2777   <rm:AdditionalContactInformation>
2778     <xpil:PartyName>
2779       <xnl:PersonName>
2780         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2781         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2782       </xnl:PersonName>
2783       <xnl:OrganisationName>
2784         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2785       </xnl:OrganisationName>
2786     </xpil:PartyName>
2787   </rm:AdditionalContactInformation>
2788 </ContactInformation>
2789 <ResourceInformation>
2790   <ResourceInfoElementID>001</ResourceInfoElementID>
2791   <ResponseInformation>
2792     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2793     <rm:ResponseType>Accept</rm:ResponseType>
2794   </ResponseInformation>
2795   <Resource>
2796     <TypeStructure>
2797       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2798       <rm:Value>Small Animal Sheltering Team</rm:Value>
2799     </TypeStructure>
2800     <ResourceStatus>
2801       <DeploymentStatus>
2802         <rm:ValueListURN>urn:x-hazard:vocab:deploymentStatusTypes</rm:ValueListURN>
2803         <rm:Value>In Transit</rm:Value>
2804       </DeploymentStatus>
2805     </ResourceStatus>
2806   </Resource>
2807   <AssignmentInformation>
2808     <Quantity>
2809       <rm:MeasuredQuantity>
2810         <rm:Amount>1</rm:Amount>
2811       </rm:MeasuredQuantity>
2812     </Quantity>
2813   </AssignmentInformation>
2814   <ScheduleInformation>
2815     <ScheduleType>ActualDeparture</ScheduleType>
2816     <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2817     <Location>
2818       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2819     </Location>
2820   </ScheduleInformation>
2821   <ScheduleInformation>
2822     <ScheduleType>ActualArrival</ScheduleType>
2823     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2824     <Location>
2825       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2826     </Location>
2827   </ScheduleInformation>
2828 </ScheduleInformation>

```

2829
2830
2831
2832
2833
2834
2835
2836

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

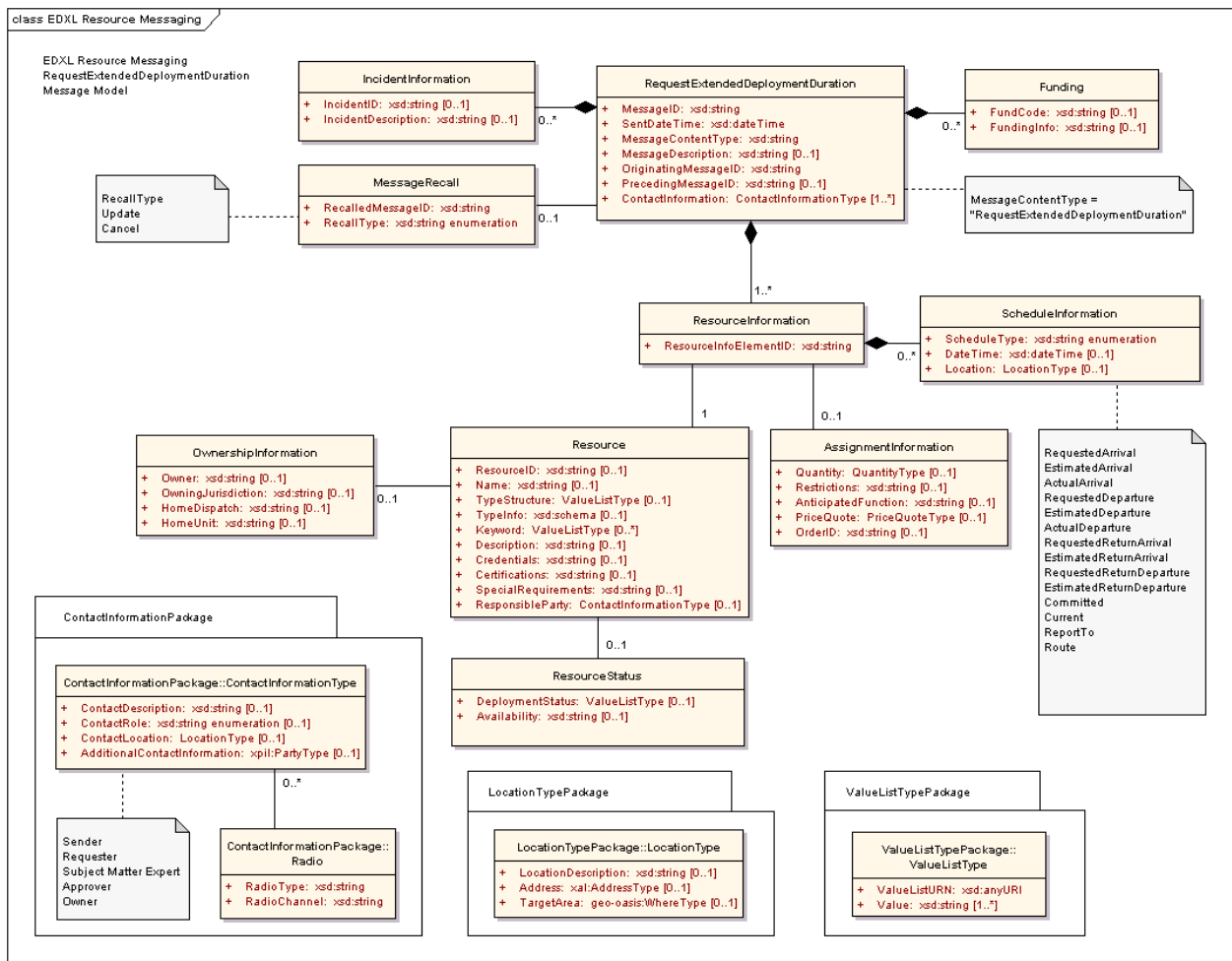
2837 **3.18 RequestExtendedDeploymentDuration**

2838 **3.18.1 Overview**

2839 The “RequestExtendedDeploymentDuration” message is sent by the Resource Consumer to the
2840 Resource Supplier when the Consumer wishes to retain one or more resources longer than previously
2841 agreed (e.g., in the original RequisitionResource and CommitResource messages).

2842 **3.18.2 Element Reference Model**

2843 Figure 18 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2844 RequestExtendedDeploymentDuration Message. The ERM shows the element-level details for the main
2845 entities in the RM.



2846
2847 **Figure 18: EDXL-RM ERM for RequestExtendedDeploymentDuration Message**
2848

2849 The following table outlines the element cardinalities for this message type.

2850

2851

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

2852

2853 3.18.3 RequestExtendedDeploymentDuration Message Rules

2854 The following rules apply to the above elements:

- 2855 • The RequestExtendedDeploymentDuration:MessageID,
2856 RequestExtendedDeploymentDuration:SentDateTime,
2857 RequestExtendedDeploymentDuration:MessageContentType,
2858 RequestExtendedDeploymentDuration:OriginatingMessageID,
2859 RequestExtendedDeploymentDuration:ContactInformation, and
2860 RequestExtendedDeploymentDuration:ResourceInformation elements MUST be present.
- 2861 • The value of RequestExtendedDeploymentDuration:MessageContentType MUST be
2862 "RequestExtendedDeploymentDuration".
- 2863 • If a RequestExtendedDeploymentDuration:IncidentInformation element is present, then at least
2864 one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements
2865 MUST be present.
- 2866 • If the RequestExtendedDeploymentDuration:MessageRecall element is present, then the
2867 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2868 • If a RequestExtendedDeploymentDuration:Funding element is present, then at least one of
2869 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2870 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2871 MUST be present.

- 2872 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2873 MUST be present for each ResourceInformation:Resource element present.
- 2874 • If a Resource:OwnershipInformation element is present, then at least one of
2875 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2876 be present.
- 2877 • If a ResourceInformation:ScheduleInformation element is present, then the
2878 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2879 values:
 - 2880 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2881 "EstimatedDeparture", "ActualDeparture", "RequestedReturnArrival",
2882 "EstimatedReturnArrival", "RequestedReturnDeparture", "EstimatedReturnDeparture",
2883 "Committed", "Current", "ReportTo"
2884 or "Route".
- 2885
- 2886 The schema for a RequestExtendedDeploymentDuration message can be found in Appendix A.17.

2887 3.18.4 Message Flow

- 2888 The RequestExtendedDeploymentDuration message is sent from the Resource Consumer to the
2889 Resource Supplier after the Commit Resource message and prior to the Release Resource message.
- 2890 The potential responses to this message include:
- 2891 • ResponseToRequestExtendedDeploymentDuration (See Section 3.19)
 - 2892 • This includes Accept, Decline and Provisional responses.
- 2893 The message may be canceled or updated through the
2894 RequestExtendedDeploymentDuration:MessageRecall element.
- 2895

2896 3.18.5 Message Example

- 2897 Below is an example RequestExtendedDeploymentDuration message. This message follows on from the
2898 CommitResource message in Section 3.7.5 and precedes the RequestReturn and ReleaseResource
2899 messages in Sections 3.12.5 and 3.11.5 respectively.
- 2900
- 2901 [Note: The XML example shown in this section is informative only.]

```

2902 <?xml version="1.0" encoding="UTF-8"?>
2903 <RequestExtendedDeploymentDuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2904   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2905     EDXL-RMRequestExtendedDeploymentDuration.xsd"
2906   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2907   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2908   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2909   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2910   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2911   <MessageID>urn:au-qld-eoc:997814</MessageID>
2912   <SentDateTime>2006-03-22T16:38:00+10:00</SentDateTime>
2913   <MessageContentType>RequestExtendedDeploymentDuration</MessageContentType>
2914   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2915   <IncidentInformation>
2916     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2917   </IncidentInformation>
2918   <ContactInformation>
2919     <rm:ContactRole>Sender</rm:ContactRole>
2920     <rm:AdditionalContactInformation>
2921       <xpil:PartyName>
2922         <xnl:PersonName>
2923           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>

```

```

2924     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2925     </xnl:PersonName>
2926     <xnl:OrganisationName>
2927     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2928     </xnl:OrganisationName>
2929     </xpil:PartyName>
2930     </rm:AdditionalContactInformation>
2931 </ContactInformation>
2932 <ResourceInformation>
2933     <ResourceInfoElementID>001</ResourceInfoElementID>
2934     <Resource>
2935         <TypeStructure>
2936             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2937             <rm:Value>Small Animal Sheltering Team</rm:Value>
2938         </TypeStructure>
2939     </Resource>
2940 <AssignmentInformation>
2941     <Quantity>
2942         <rm:MeasuredQuantity>
2943             <rm:Amount>1</rm:Amount>
2944         </rm:MeasuredQuantity>
2945     </Quantity>
2946 </AssignmentInformation>
2947 <ScheduleInformation>
2948     <ScheduleType>RequestedReturnArrival</ScheduleType>
2949     <DateTime>2006-04-07T17:00:00+10:00</DateTime>
2950     <Location>
2951         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2952     </Location>
2953 </ScheduleInformation>
2954 </ResourceInformation>
2955 </RequestExtendedDeploymentDuration>

```

2956

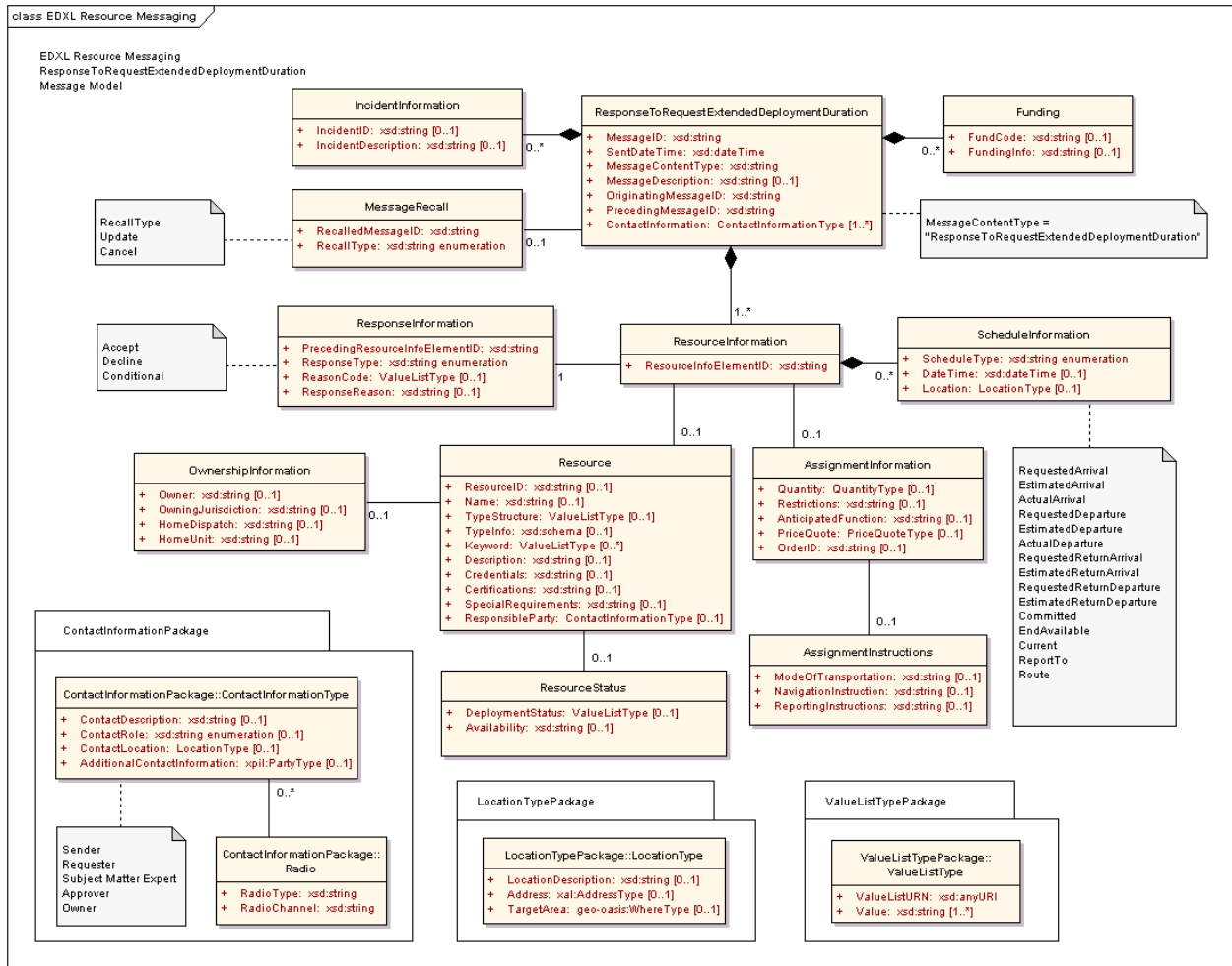
2957 **3.19 ResponseToRequestExtendedDeploymentDuration Message**

2958 **3.19.1 Overview**

2959 The “ResponseToRequestExtendedDeploymentDuration” message is used as the response to a
 2960 “RequestExtendedDeploymentDuration” message. It allows the sender to accept, decline, or offer
 2961 conditions upon which deployment duration of resources may be extended.

2962 **3.19.2 Element Reference Model**

2963 Figure 19 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
 2964 ResponseToRequestExtendedDeploymentDuration message. The ERM shows the element-level details
 2965 for the main entities in the RM.



2966
 2967 *Figure 19: EDXL-RM ERM for ResponseToRequestExtendedDeploymentDuration Message*
 2968

2969 The following table outlines the element cardinalities for this message type.

2970

2971

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

2972

2973 3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules

2974 The following rules apply to the above elements:

- 2975 • The ResponseToRequestExtendedDeploymentDuration:MessageID,
2976 ResponseToRequestExtendedDeploymentDuration:SentDateTime,
2977 ResponseToRequestExtendedDeploymentDuration:MessageContentType,
2978 ResponseToRequestExtendedDeploymentDuration:OriginatingMessageID,
2979 ResponseToRequestExtendedDeploymentDuration:PrecedingMessageID,
2980 ResponseToRequestExtendedDeploymentDuration:ContactInformation, and
2981 ResponseToRequestExtendedDeploymentDuration:ResourceInformation elements MUST be
2982 present.
- 2983 • The value of ResponseToRequestExtendedDeploymentDuration:MessageContentType MUST be
2984 "ResponseToRequestExtendedDeploymentDuration".

- 2985 • If a ResponseToRequestExtendedDeploymentDuration:IncidentInformation element is present,
2986 then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription
2987 elements MUST be present.
- 2988 • If the ResponseToRequestExtendedDeploymentDuration:MessageRecall element is present,
2989 then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be
2990 present.
- 2991 • If a ResponseToRequestExtendedDeploymentDuration:Funding element is present, then at least
2992 one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2993 • The ResourceInformation:ResourceInfoElementID and
2994 ResourceInformation:ResponseInformation elements MUST be present.
- 2995 • The ResponseInformation:PrecedingResourceInfoElementID and
2996 ResponseInformation:ResponseType elements MUST be present.
- 2997 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
2998 ResourceInformation:Resource element MUST be present. Otherwise, the
2999 ResourceInformation:Resource element is optional.
- 3000 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
3001 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
3002 MUST be present.
- 3003 • If a ResourceInformation:Resource element is present, then at least one of
3004 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
3005 present.
- 3006 • If a Resource:OwnershipInformation element is present, then at least one of
3007 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
3008 be present.
- 3009 • If the ResourceInformation:ScheduleInformation element is present, then the
3010 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
3011 values:
 - 3012 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
3013 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnArrival”,
3014 “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”,
3015 “Committed”, “EndAvailable”, “Current”, “ReportTo” or “Route”.
- 3016
- 3017 The schema for a ResponseToRequestExtendedDeploymentDuration message can be found in Appendix
3018 A.18.

3019 **3.19.4 Message Flow**

3020 The ResponseToRequestExtendedDeploymentDuration message is sent from the Resource Supplier to
3021 the Resource Consumer in response to a RequestExtendedDeploymentDuration message.

3022 The message may be canceled or updated through the
3023 ResponseToRequestExtendedDeploymentDuration:MessageRecall element.

3024

3025 **3.19.5 Message Example**

3026 Below is an example ResponseToRequestExtendedDeploymentDuration message. This message follows
3027 on from the example RequestExtendedDeploymentDuration message shown in Section 3.18.5 (declining
3028 the request).

3029

3030 [Note: The XML example shown in this section is informative only.]

```

3031 <?xml version="1.0" encoding="UTF-8"?>
3032 <ResponseToRequestExtendedDeploymentDuration
3033 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3034 xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
3035 EDXL-RMResponseToRequestExtendedDeploymentDuration.xsd"
3036 xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3037 xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3038 xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
3039 xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
3040 xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
3041 <MessageID>urn:au-qld-eoc:997816</MessageID>
3042 <SentDateTime>2006-03-22T17:02:00+10:00</SentDateTime>
3043 <MessageContentType>ResponseToRequestExtendedDeploymentDuration</MessageContentType>
3044 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
3045 <PrecedingMessageID>urn:au-qld-eoc:997814</PrecedingMessageID>
3046 <IncidentInformation>
3047 <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
3048 </IncidentInformation>
3049 <ContactInformation>
3050 <rm:ContactRole>Sender</rm:ContactRole>
3051 <rm:AdditionalContactInformation>
3052 <xpil:PartyName>
3053 <xnl:PersonName>
3054 <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
3055 <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
3056 </xnl:PersonName>
3057 <xnl:OrganisationName>
3058 <xnl:NameElement>EMA</xnl:NameElement>
3059 </xnl:OrganisationName>
3060 </xpil:PartyName>
3061 </rm:AdditionalContactInformation>
3062 </ContactInformation>
3063 <ContactInformation>
3064 <rm:ContactRole>Requester</rm:ContactRole>
3065 <rm:AdditionalContactInformation>
3066 <xpil:PartyName>
3067 <xnl:PersonName>
3068 <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
3069 <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
3070 </xnl:PersonName>
3071 <xnl:OrganisationName>
3072 <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
3073 </xnl:OrganisationName>
3074 </xpil:PartyName>
3075 </rm:AdditionalContactInformation>
3076 </ContactInformation>
3077 <ResourceInformation>
3078 <ResourceInfoElementID>001</ResourceInfoElementID>
3079 <ResponseInformation>
3080 <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
3081 <rm:ResponseType>Decline</rm:ResponseType>
3082 <rm:ResponseReason>
3083 Team is already committed elsewhere for the period of 4 to April.
3084 </rm:ResponseReason>
3085 </ResponseInformation>
3086 <Resource>
3087 <TypeStructure>
3088 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
3089 <rm:Value>Small Animal Sheltering Team</rm:Value>
3090 </TypeStructure>
3091 </Resource>
3092 <AssignmentInformation>
3093 <Quantity>
3094 <rm:MeasuredQuantity>
3095 <rm:Amount>1</rm:Amount>
3096 </rm:MeasuredQuantity>
3097 </Quantity>
3098 </AssignmentInformation>
3099 <ScheduleInformation>
3100 <ScheduleType>RequestedReturnArrival</ScheduleType>
3101 <DateTime>2006-04-07T17:00:00+10:00</DateTime>

```

3102
3103
3104
3105
3106
3107

```
<Location>  
  <rm:LocationDescription>Cairns Airport</rm:LocationDescription>  
</Location>  
</ScheduleInformation>  
</ResourceInformation>  
</ResponseToRequestExtendedDeploymentDuration>
```

3108

4 Data Dictionary (NORMATIVE)

3109

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

3110

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

3111

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

3112

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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3113

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

3114

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
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3115

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.

3116

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

3117

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

3118

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

3119

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

3120 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

3121

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.

	<ul style="list-style-type: none"> If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present
Requirements Supported	18, 24

3122 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.

3123 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.

3124

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

	3. Provisional
Comments	<ul style="list-style-type: none"> The “ResponseReason” element is associated with a “Provisional” or “Decline” value.
Requirements Supported	6,29

3125

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

3126

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

3127

4.1.7 Resource Element

Element	ResourceID
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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

3128

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

3129

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

3130

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

3131

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

3132

Element	Description
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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

3133

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."

3134

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"

3135

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

3136

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

3137

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 Supported	3,16,18
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3138

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

3139

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

3140

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

3141 **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

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

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

3143

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> =

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

3144

3145 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

3146

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

3147

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

3148

Element	PriceQuote
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

3149

Element	OrderID
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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

3150 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> = "RequestExtendedDeploymentDuration" ○ Optional, otherwise
Requirements Supported	18,30

3151

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

3152

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"

	<ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ○ Optional, otherwise
Requirements Supported	30

3153 **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 MUST 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

	<p>“OwningJurisdiction”.</p> <p>10. RequestedReturnDeparture</p> <ul style="list-style-type: none"> ▪ Date and time the resource is requested to Depart from its deployment for transit to its “OwningJurisdiction”. <p>11. EstimatedReturnDeparture</p> <ul style="list-style-type: none"> ▪ Date and time the resource is expected to Depart from its deployment for transit to its “OwningJurisdiction”. <p>12. ActualReturnDeparture</p> <ul style="list-style-type: none"> ▪ Date and time the resource Departs from its deployment for transit to its “OwningJurisdiction”. <p>13. Committed</p> <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”. <p>14. BeginAvailable</p> <ul style="list-style-type: none"> ▪ Date and time the resource will become available for allocation. <p>15. EndAvailable</p> <ul style="list-style-type: none"> ▪ Date and time the resource will cease to be available for deployment. <p>16. Current</p> <ul style="list-style-type: none"> ▪ Location of resource at date and time of message. <p>17. ReportTo</p> <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. <p>18. Route</p> <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

3154

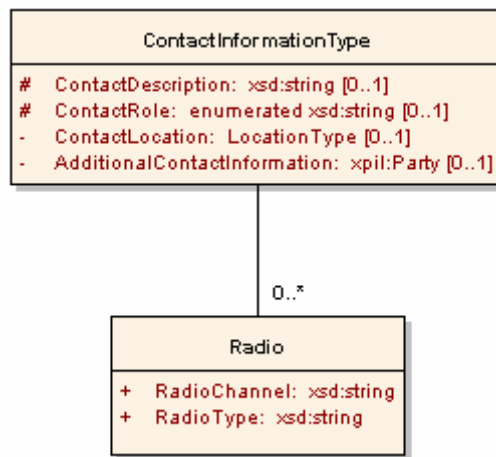
Element	DateTime
Type	DateTimeType [xsd:dateTime]
Usage	OPTIONAL , MAY be used once and only once
Definition	The date and time that a scheduled event takes place.
Requirements Supported	2, 11, 12, 28, 30

3155

Element	Location
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.

3156 **4.1.13 Supporting Element Types**

3157 **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").

	<ul style="list-style-type: none"> 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

3161

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"> "Sender" (who sent the message) "Requester" (authorization for the message / request) "SubjectMatterExpert" (answer questions or provide details) "Approver" "RespondingOrg" (who responded to the message) "Owner"
Requirements Supported	18,23,24

3162

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 Supported	18,23,24
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3163

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"> </pre>

	<pre> <xpil:ContactNumberElement xpil:ElementType="CountryCode">61 </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

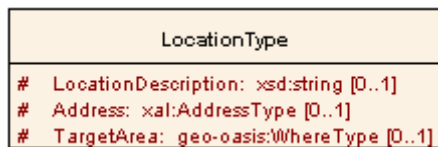
3164 **4.1.13.1.1 Radio Element**

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

3165

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

3166 **4.1.13.2 LocationType**



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Figure 21: LocationType Structure

Element	LocationDescription
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.

3169

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 [todo: link to CIQ reference] .
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

3170

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.

3171

4.1.13.2.1 Imported Type Definitions

Type	geo-oasis:WhereType
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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.

3172

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	

3173

Type	geo-oasis:WhereType using gml:LineString
Usage	Where TargetAreaType is best represented as a route along a series of WGS84 points.
Definition	The use of gml:LineString within TargetArea provides location along a line

	<p>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	

3174

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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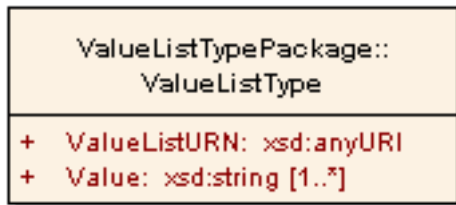
Type	geo-oasis:WhereType using gml:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Polygon within TargetArea provides a ring of points (first and last point are the same) represented by a 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.

3177 **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

3180

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
- 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
- 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
- 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.

3220 **5.3 Conformance as an EDXL-RM Message**

3221 **5.3.1 Level-1 EDXL-RM Message**

3222 An XML 1.0 element is a conforming Level-1 EDXL-RM Message if and only if:

- 3223 a) it meets the general requirements specified in Section 3.3;
- 3224
- 3225 b) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its local name
- 3226 is one of the 16 resource message type names specified in sections 3.4 to 3.19 (also listed in
- 3227 Table 1), and the element is valid according to the schema located at
- 3228 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where
- 3229 validation is performed against the global element declaration with the same local name;
- 3230
- 3231 c) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then the
- 3232 element is valid according to the schema located at
- 3233 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where
- 3234 validation is performed against the complex type definition
- 3235 "EDXLResourceMessageReferenceType";
- 3236
- 3237 d) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3238 (which includes the content of each of its descendants) meets all the additional mandatory
- 3239 requirements provided in the specific subsection of Section 3 (sections 3.4 to 3.19) corresponding
- 3240 to the element's name, *with the exception of the Message Flow*; such requirements include:
- 3241
- 3242 • the content of the Element Reference Model;
 - 3243 • each of the Message Rules; and
 - 3244 • the normative parts (element name, usage, and constraints) of any dictionary data entries
 - 3245 (in Section **Error! Reference source not found.**) corresponding to the elements that
 - 3246 actually occur in the content of the element;
- 3247
- 3248 e) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3249 (which includes the content of each of its descendants) meets all the additional mandatory
- 3250 requirements provided in the normative parts (element name, usage, and constraints) of all the
- 3251 dictionary data entries (in Section 4) corresponding to the elements that actually occur in the
- 3252 content of the element.

3253 NOTE The Information Exchange Package Documentation (IEPD) process, specified

3254 within the United States National Information Exchange Model (available on

3255 www.niem.gov), can be used by a Community of Interest when specifying new types of

3256 resource messages conforming to Level 1.

3257

3258 **5.3.2 Level-2 EDXL-RM Message**

3259 An XML 1.0 element is a conforming Level-2 EDXL-RM Message if and only if:

- 3260 a) it meets all the requirements for a Level-1 EDXL-RM Message specified in Section 5.3.1; and
- 3261
- 3262 b) its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"; and
- 3263
- 3264 c) its content meets all the requirements provided in the specific subsection of Section 3 (sections
- 3265 **Error! Reference source not found.** to **Error! Reference source not found.**) corresponding to
- 3266 the element's name (see also Section 5.3.1 item (d)), *including the Message Flow*.

3267 NOTE The conditions in (a) and (b) above imply that the local name of the element is
3268 one of the 16 resource message type names specified in sections 3.4 to 3.19 (see
3269 Section 5.3.1 item (b)).

3270 5.4 Conformance as an EDXL-RM Message Producer

3271 5.4.1 Level-1 EDXL-RM Message Producer

3272 A software entity is a conforming Level-1 EDXL-RM Message Producer if and only if it is constructed in
3273 such a way that any XML 1.0 element produced by it and present in a place in which a conforming Level-
3274 1 EDXL-RM message is expected (based on contextual information) is indeed a conforming Level-1
3275 EDXL-RM message according to this standard.

3276 NOTE The condition above can be satisfied in many different ways. Here are some
3277 examples of possible scenarios:

- 3278 – a standard distribution protocol (say, EDXL-DE) transfers EDXL-RM messages; a resource
3279 consumer has sent an EDXL-RM request message to a resource supplier which claims to be
3280 a conforming EDXL-RM Message Producer, and has received an EDXL-DE message which
3281 is therefore expected to carry a conforming EDXL-RM Message;
- 3282 – a local test environment has been set up, and the application under test (which claims to be a
3283 conforming EDXL-RM Message Producer) has the ability to produce an EDXL-RM message
3284 and write it to a file in a directory in response to a request coming from the testing tool; the
3285 testing tool has sent many requests to the application under test and is now verifying all the
3286 files present in the directory, which is expected to contain only conforming EDXL-
3287 RM Messages.

3288 5.4.2 Level-2 EDXL-RM Message Producer

3289 A software entity is a conforming Level-2 EDXL-RM Message Producer if and only if:

- 3290 a) it meets all the requirements for a Level-1 EDXL-RM Producer Message specified in Section
3291 5.4.1; and
- 3292 b) it produces a conforming Level-2 EDXL-RM Message when such a message is expected.

3293 NOTE There is no requirement for a Level-2 EDXL-RM Message Producer to be able to
3294 produce resource messages of all 16 resource message types specified in sections
3295 **Error! Reference source not found.** to **Error! Reference source not found.**

3296

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

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Schemas included in Appendix A are for reference only. The normative schemas can be found at <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/schemas/>.

3299

3300

A.1 Resource Messaging Common Types

3301

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xnal="urn:oasis:names:tc:ciq:xnal:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
  xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified">

  <!-- All elements that have unchanged internal content across the entire matrix of
  RM messages are typed here.
  Where internal content differs between messages, please see the appropriate
  schemas. -->
  <xsd:import namespace="urn:oasis:names:tc:ciq:xpil:3" schemaLocation="xpil.xsd"/>
  <xsd:import namespace="urn:oasis:names:tc:ciq:xal:3" schemaLocation="xal.xsd"/>
  <xsd:import namespace="urn:oasis:names:tc:ciq:xnl:3" schemaLocation="xnl.xsd"/>

  <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
    schemaLocation="geo-oasis.xsd"/>
  <xsd:simpleType name="MessageIDType">
    <xsd:restriction base="xsd:string"/>
  </xsd:simpleType>
  <xsd:simpleType name="DateTimeType">
    <xsd:restriction base="xsd:dateTime"/>
  </xsd:simpleType>
  <xsd:simpleType name="MessageContentTypeType">
    <xsd:restriction base="xsd:string">
      <xsd:annotation>
        <xsd:documentation>
          The following strings values for MessageContentType
          are reserved for Level 2 Conformant Message types (New
          level 1 conformant messagetypes should use other name strings):

          RequestResource
          ResponseToRequestResource
          RequisitionResource
          CommitResource
          RequestInformation
          ResponseToRequestInformation
          OfferUnsolicitedResource
          ReleaseResource
          RequestReturn
          ResponseToRequestReturn
          RequestQuote
          ResponseToRequestQuote
          RequestResourceDeploymentStatus
          ReportResourceDeploymentStatus
          RequestExtendedDeploymentDuration
          ResponseToRequestExtendedDeploymentDuration
        </xsd:documentation>
      </xsd:annotation>
    </xsd:restriction>
  </xsd:simpleType>
```

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3357 <xsd:simpleType name="MessageDescriptionType">
3358   <xsd:restriction base="xsd:string"/>
3359 </xsd:simpleType>
3360 <xsd:complexType name="IncidentInformationType">
3361   <!-- One(or both) of the IncidentID and IncidentDescription elements is required -->
3362   <xsd:sequence>
3363     <xsd:element name="IncidentID" type="IncidentIDType" minOccurs="0"/>
3364     <xsd:element name="IncidentDescription" type="IncidentDescriptionType"
3365       minOccurs="0"/>
3366   </xsd:sequence>
3367 </xsd:complexType>
3368 <xsd:simpleType name="IncidentIDType">
3369   <xsd:restriction base="xsd:string"/>
3370 </xsd:simpleType>
3371 <xsd:simpleType name="IncidentDescriptionType">
3372   <xsd:restriction base="xsd:string"/>
3373 </xsd:simpleType>
3374 <xsd:complexType name="MessageRecallType">
3375   <xsd:sequence>
3376     <xsd:element name="RecallMessageID" type="MessageIDType"/>
3377     <xsd:element name="RecallType" type="RecallTypeType"/>
3378   </xsd:sequence>
3379 </xsd:complexType>
3380 <xsd:simpleType name="RecallTypeType">
3381   <xsd:restriction base="xsd:string">
3382     <xsd:enumeration value="Update"/>
3383     <xsd:enumeration value="Cancel"/>
3384   </xsd:restriction>
3385 </xsd:simpleType>
3386 <xsd:complexType name="FundingType">
3387   <!-- One (or both) of the FundCode and FundingInfo elements is required -->
3388   <xsd:sequence>
3389     <xsd:element name="FundCode" type="FundCodeType" minOccurs="0" maxOccurs="1"/>
3390     <xsd:element name="FundingInfo" type="FundingInfoType" minOccurs="0"
3391       maxOccurs="1"/>
3392   </xsd:sequence>
3393 </xsd:complexType>
3394 <xsd:simpleType name="FundCodeType">
3395   <xsd:restriction base="xsd:string"/>
3396 </xsd:simpleType>
3397 <xsd:simpleType name="FundingInfoType">
3398   <xsd:restriction base="xsd:string"/>
3399 </xsd:simpleType>
3400 <xsd:complexType name="ContactInformationType">
3401   <xsd:sequence>
3402     <!-- At least one of ContactDescription and ContextRole is required -->
3403     <xsd:element name="ContactDescription" type="ContactDescriptionType" minOccurs="0"
3404       maxOccurs="1"/>
3405     <xsd:element name="ContactRole" type="ContactRoleType" minOccurs="0"
3406       maxOccurs="1"/>
3407     <xsd:element name="Radio" type="RadioInformationType" minOccurs="0"
3408       maxOccurs="unbounded"/>
3409     <xsd:element name="ContactLocation" type="LocationType" minOccurs="0"
3410       maxOccurs="1"/>
3411     <xsd:element name="AdditionalContactInformation" type="xpil:PartyType"
3412       minOccurs="0" maxOccurs="1"/>
3413   </xsd:sequence>
3414 </xsd:complexType>
3415 <xsd:simpleType name="ContactDescriptionType">
3416   <xsd:restriction base="xsd:string"/>
3417 </xsd:simpleType>
3418 <xsd:simpleType name="ContactRoleType">
3419   <xsd:restriction base="xsd:string">
3420     <xsd:enumeration value="Sender"/>
3421     <xsd:enumeration value="Requester"/>
3422     <xsd:enumeration value="SubjectMatterExpert"/>
3423     <xsd:enumeration value="Approver"/>
3424     <xsd:enumeration value="RespondingOrg"/>
3425     <xsd:enumeration value="Owner"/>
3426   </xsd:restriction>
3427 </xsd:simpleType>

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3428 <xsd:complexType name="RadioInformationType">
3429   <xsd:sequence>
3430     <xsd:element name="RadioType" type="ValueListType"/>
3431     <xsd:element name="RadioChannel" type="RadioChannelType"/>
3432   </xsd:sequence>
3433 </xsd:complexType>
3434 <xsd:simpleType name="RadioTypeType">
3435   <xsd:restriction base="xsd:string"/>
3436 </xsd:simpleType>
3437 <xsd:simpleType name="RadioChannelType">
3438   <xsd:restriction base="xsd:string"/>
3439 </xsd:simpleType>
3440 <xsd:complexType name="ResponseInformationType">
3441   <xsd:sequence>
3442     <xsd:element name="PrecedingResourceInfoElementID"
3443       type="ResourceInfoElementIDType"/>
3444     <xsd:element name="ResponseType" type="ResponseTypeType"/>
3445     <!-- If the ResponseType element has the value "Provisional", one (or both) of
3446       ReasonCode and ResponseReason must be present -->
3447     <xsd:element name="ReasonCode" type="ValueListType" minOccurs="0" maxOccurs="1"/>
3448     <xsd:element name="ResponseReason" type="ResponseReasonType" minOccurs="0"
3449       maxOccurs="1"/>
3450   </xsd:sequence>
3451 </xsd:complexType>
3452 <xsd:simpleType name="ResourceInfoElementIDType">
3453   <xsd:restriction base="xsd:string"/>
3454 </xsd:simpleType>
3455 <xsd:simpleType name="ResponseTypeType">
3456   <xsd:restriction base="xsd:string">
3457     <xsd:enumeration value="Accept"/>
3458     <xsd:enumeration value="Decline"/>
3459     <xsd:enumeration value="Provisional"/>
3460   </xsd:restriction>
3461 </xsd:simpleType>
3462 <xsd:simpleType name="ResponseReasonType">
3463   <xsd:restriction base="xsd:string"/>
3464 </xsd:simpleType>
3465 <xsd:simpleType name="ResourceIDType">
3466   <xsd:restriction base="xsd:string"/>
3467 </xsd:simpleType>
3468 <xsd:simpleType name="ResourceNameType">
3469   <xsd:restriction base="xsd:string"/>
3470 </xsd:simpleType>
3471 <xsd:complexType name="TypeInfoType">
3472   <xsd:sequence>
3473     <xsd:any processContents="skip" maxOccurs="unbounded"/>
3474   </xsd:sequence>
3475   <xsd:anyAttribute/>
3476 </xsd:complexType>
3477 <xsd:simpleType name="DescriptionType">
3478   <xsd:restriction base="xsd:string"/>
3479 </xsd:simpleType>
3480 <xsd:simpleType name="CredentialsType">
3481   <xsd:restriction base="xsd:string"/>
3482 </xsd:simpleType>
3483 <xsd:simpleType name="CertificationsType">
3484   <xsd:restriction base="xsd:string"/>
3485 </xsd:simpleType>
3486 <xsd:simpleType name="SpecialRequirementsType">
3487   <xsd:restriction base="xsd:string"/>
3488 </xsd:simpleType>
3489 <xsd:complexType name="OwnershipInformationType">
3490   <!-- One (or both) of the Owner and OwningJurisdiction elements is required -->
3491   <xsd:sequence>
3492     <xsd:element name="Owner" type="OwnerType" minOccurs="0" maxOccurs="1"/>
3493     <xsd:element name="OwningJurisdiction" type="OwningJurisdictionType" minOccurs="0"
3494       maxOccurs="1"/>
3495     <xsd:element name="HomeDispatch" type="HomeDispatchType" minOccurs="0"
3496       maxOccurs="1"/>
3497     <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0" maxOccurs="1"/>
3498   </xsd:sequence>

```

```

3499 </xsd:complexType>
3500 <xsd:simpleType name="OwnerType">
3501   <xsd:restriction base="xsd:string"/>
3502 </xsd:simpleType>
3503 <xsd:simpleType name="OwningJurisdictionType">
3504   <xsd:restriction base="xsd:string"/>
3505 </xsd:simpleType>
3506 <xsd:simpleType name="HomeDispatchType">
3507   <xsd:restriction base="xsd:string"/>
3508 </xsd:simpleType>
3509 <xsd:simpleType name="HomeUnitType">
3510   <xsd:restriction base="xsd:string"/>
3511 </xsd:simpleType>
3512 <xsd:simpleType name="AvailabilityType">
3513   <xsd:restriction base="xsd:string"/>
3514 </xsd:simpleType>
3515 <xsd:simpleType name="QuantityTypeOld">
3516   <xsd:restriction base="xsd:string"/>
3517 </xsd:simpleType>
3518 <xsd:complexType name="QuantityType">
3519   <xsd:choice>
3520     <xsd:element name="QuantityText" type="xsd:string" maxOccurs="unbounded"/>
3521     <xsd:element name="MeasuredQuantity">
3522       <xsd:complexType>
3523         <xsd:sequence>
3524           <xsd:element name="Amount" type="xsd:double"/>
3525           <xsd:element name="UnitOfMeasure" type="ValueListType" minOccurs="0"/>
3526         </xsd:sequence>
3527       </xsd:complexType>
3528     </xsd:element>
3529   </xsd:choice>
3530 </xsd:complexType>
3531 <xsd:simpleType name="RestrictionsType">
3532   <xsd:restriction base="xsd:string"/>
3533 </xsd:simpleType>
3534 <xsd:simpleType name="AnticipatedFunctionType">
3535   <xsd:restriction base="xsd:string"/>
3536 </xsd:simpleType>
3537 <xsd:complexType name="PriceQuoteType">
3538   <xsd:complexContent>
3539     <xsd:extension base="QuantityType"/>
3540   </xsd:complexContent>
3541 </xsd:complexType>
3542 <xsd:simpleType name="OrderIDType">
3543   <xsd:restriction base="xsd:string"/>
3544 </xsd:simpleType>
3545 <xsd:complexType name="AssignmentInstructionsType">
3546   <xsd:sequence>
3547     <xsd:element name="ModeOfTransportation" type="ModeOfTransportationType"
3548       minOccurs="0"
3549       maxOccurs="1"/>
3550     <xsd:element name="NavigationInstructions" type="NavigationInstructionsType"
3551       minOccurs="0" maxOccurs="1"/>
3552     <xsd:element name="ReportingInstructions" type="ReportingInstructionsType"
3553       minOccurs="0"
3554       maxOccurs="1"/>
3555   </xsd:sequence>
3556 </xsd:complexType>
3557 <xsd:simpleType name="ModeOfTransportationType">
3558   <xsd:restriction base="xsd:string"/>
3559 </xsd:simpleType>
3560 <xsd:simpleType name="NavigationInstructionsType">
3561   <xsd:restriction base="xsd:string"/>
3562 </xsd:simpleType>
3563 <xsd:simpleType name="ReportingInstructionsType">
3564   <xsd:restriction base="xsd:string"/>
3565 </xsd:simpleType>
3566 <xsd:simpleType name="ScheduleTypeType">
3567   <xsd:restriction base="xsd:string">
3568     <xsd:enumeration value="RequestedArrival"/>
3569     <xsd:enumeration value="EstimatedArrival"/>

```

```

3570     <xsd:enumeration value="ActualArrival"/>
3571     <xsd:enumeration value="RequestedDeparture"/>
3572     <xsd:enumeration value="EstimatedDeparture"/>
3573     <xsd:enumeration value="ActualDeparture"/>
3574     <xsd:enumeration value="EstimatedReturnDeparture"/>
3575     <xsd:enumeration value="EstimatedReturnArrival"/>
3576     <xsd:enumeration value="ActualReturnArrival"/>
3577     <xsd:enumeration value="RequestedReturnDeparture"/>
3578     <xsd:enumeration value="RequestedReturnArrival"/>
3579     <xsd:enumeration value="ActualReturnDeparture"/>
3580     <xsd:enumeration value="BeginAvailable"/>
3581     <xsd:enumeration value="EndAvailable"/>
3582     <xsd:enumeration value="Committed"/>
3583     <xsd:enumeration value="Current"/>
3584     <xsd:enumeration value="ReportTo"/>
3585     <xsd:enumeration value="Route"/>
3586   </xsd:restriction>
3587 </xsd:simpleType>
3588 <xsd:complexType name="LocationType">
3589   <xsd:sequence>
3590     <!-- One (or more) of the LocationDescription, Address and TargetArea elements is
3591           required -->
3592     <xsd:element name="LocationDescription" type="LocationDescriptionType"
3593               minOccurs="0"
3594               maxOccurs="1"/>
3595     <xsd:element name="Address" type="xal:AddressType" minOccurs="0" maxOccurs="1"/>
3596     <xsd:element name="TargetArea" type="geo-oasis:WhereType" minOccurs="0"
3597               maxOccurs="1"/>
3598   </xsd:sequence>
3599 </xsd:complexType>
3600 <xsd:simpleType name="LocationDescriptionType">
3601   <xsd:restriction base="xsd:string"/>
3602 </xsd:simpleType>
3603 <xsd:complexType name="ValueListType">
3604   <xsd:sequence>
3605     <xsd:element name="ValueListURN" type="ValueListURNTYPE"/>
3606     <xsd:element name="Value" type="ValueType" maxOccurs="unbounded"/>
3607   </xsd:sequence>
3608 </xsd:complexType>
3609 <xsd:simpleType name="ValueListURNTYPE">
3610   <xsd:restriction base="xsd:anyURI"/>
3611 </xsd:simpleType>
3612 <xsd:simpleType name="ValueType">
3613   <xsd:restriction base="xsd:string"/>
3614 </xsd:simpleType>
3615 </xsd:schema>
3616

```

3617 A.2 Resource Messaging Reference Schema

```

3618 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3619         xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3620         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3621         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3622         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3623         elementFormDefault="qualified"
3624         attributeFormDefault="unqualified">
3625   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3626             schemaLocation="EDXL-RMCommonTypes.xsd"/>
3627   <!-- This schema is the base reference schema for all EDXL-RM messages.
3628         All resource messages will conform to this schema and to the elementicular
3629         sub-schema corresponding to the message type.-->
3630   <complexType name="EDXLResourceMessageReferenceType">
3631     <sequence>
3632       <element name="MessageID" type="rm:MessageIDType"/>
3633       <element name="SentDateTime" type="rm:DateTimeType"/>
3634       <element name="MessageContentType" type="rm:MessageContentTypeType"/>
3635       <element name="MessageDescription" type="rm:MessageDescriptionType"
3636             minOccurs="0" maxOccurs="1"/>

```

```

3637 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3638 <element name="PrecedingMessageID" type="rm:MessageIDType"
3639   minOccurs="0" maxOccurs="1"/>
3640 <element name="IncidentInformation" type="rm:IncidentInformationType"
3641   minOccurs="0" maxOccurs="unbounded"/>
3642 <element name="MessageRecall" type="rm:MessageRecallType"
3643   minOccurs="0" maxOccurs="1"/>
3644 <element name="Funding" type="rm:FundingType" minOccurs="0"
3645   maxOccurs="unbounded"/>
3646 <element name="ContactInformation" type="rm:ContactInformationType"
3647   minOccurs="1" maxOccurs="unbounded"/>
3648 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
3649   <complexType>
3650     <sequence>
3651       <element name="ResourceInfoElementID"
3652         type="rm:ResourceInfoElementIDType"/>
3653       <element name="ResponseInformation" type="rm:ResponseInformationType"
3654         minOccurs="0" maxOccurs="1"/>
3655       <element name="Resource" minOccurs="0" maxOccurs="1">
3656         <complexType>
3657           <sequence>
3658             <!-- One (or more) of first three elements is required -->
3659             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3660               maxOccurs="1"/>
3661             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3662               maxOccurs="1"/>
3663             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3664               maxOccurs="1"/>
3665             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3666               maxOccurs="1"/>
3667             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3668               maxOccurs="unbounded"/>
3669             <element name="Description" type="rm:DescriptionType" minOccurs="0"
3670               maxOccurs="1"/>
3671             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3672               maxOccurs="1"/>
3673             <element name="Certifications" type="rm:CertificationsType"
3674               minOccurs="0" maxOccurs="1"/>
3675             <element name="SpecialRequirements"
3676               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3677             <element name="ResponsibleParty" type="rm:ContactInformationType"
3678               minOccurs="0" maxOccurs="1"/>
3679             <element name="OwnershipInformation"
3680               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3681             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3682               <complexType>
3683                 <sequence>
3684                   <element name="InventoryRefreshDateTime"
3685                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3686                   <element name="DeploymentStatus" type="rm:ValueListType"
3687                     minOccurs="0" maxOccurs="1"/>
3688                   <element name="Availability" type="rm:AvailabilityType"
3689                     minOccurs="0" maxOccurs="1"/>
3690                 </sequence>
3691               </complexType>
3692             </element>
3693           </sequence>
3694         </complexType>
3695       </element>
3696     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3697       <complexType>
3698         <sequence>
3699           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3700             maxOccurs="1"/>
3701           <element name="Restrictions" type="rm:RestrictionsType"
3702             minOccurs="0" maxOccurs="1"/>
3703           <element name="AnticipatedFunction"
3704             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3705           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3706             maxOccurs="1"/>
3707           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"

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3708         maxOccurs="1"/>
3709         <element name="AssignmentInstructions"
3710             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3711     </sequence>
3712 </complexType>
3713 </element>
3714 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3715     <complexType>
3716     <sequence>
3717         <element name="ScheduleType" type="rm:ScheduleTypeType"/>
3718         <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3719             maxOccurs="1"/>
3720         <element name="Location" type="rm:LocationType" minOccurs="0"
3721             maxOccurs="1"/>
3722     </sequence>
3723 </complexType>
3724 </element>
3725 </sequence>
3726 </complexType>
3727 </element>
3728 </sequence>
3729 </complexType>
3730 </schema>

```

3731 A.3 RequestResource Message Schema

```

3732 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3733     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3734     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3735     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3736     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3737     elementFormDefault="qualified" attributeFormDefault="unqualified">
3738     <xs:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3739         schemaLocation="EDXL-RMCommonTypes.xsd"/>
3740     <!-- This schema describes the structure of
3741         EDXL-RM "RequestResource" messages.-->
3742     <element name="RequestResource">
3743         <complexType>
3744         <sequence>
3745             <element name="MessageID" type="rm:MessageIDType"/>
3746             <element name="SentDateTime" type="rm:DateTimeType"/>
3747             <element name="MessageContentType">
3748                 <simpleType>
3749                 <restriction base="rm:MessageContentTypeType">
3750                     <enumeration value="RequestResource"/>
3751                 </restriction>
3752             </simpleType>
3753         </element>
3754
3755         <element name="MessageDescription" type="rm:MessageDescriptionType" minOccurs="0"
3756             maxOccurs="1"/>
3757         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3758         <element name="IncidentInformation" type="rm:IncidentInformationType"
3759             minOccurs="0" maxOccurs="unbounded"/>
3760         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3761             maxOccurs="1"/>
3762         <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3763             <complexType>
3764             <sequence>
3765                 <!-- One(or both) of the FundCode and FundingInfo elements is required -->
3766                 <element name="FundCode" type="rm:FundCodeType" minOccurs="0"
3767                     maxOccurs="1"/>
3768                 <element name="FundingInfo" type="rm:FundingInfoType" minOccurs="0"
3769                     maxOccurs="1"/>
3770             </sequence>
3771             </complexType>
3772         </element>
3773         <element name="ContactInformation" type="rm:ContactInformationType"
3774             minOccurs="1" maxOccurs="unbounded"/>

```

```

3775 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3776 <complexType>
3777 <sequence>
3778 <element name="ResourceInfoElementID"
3779 type="rm:ResourceInfoElementIDType"/>
3780 <element name="Resource">
3781 <complexType>
3782 <sequence>
3783 <!-- One (or more) of first three elements is required -->
3784 <element name="ResourceID" type="rm:ResourceIDType"
3785 minOccurs="0" maxOccurs="1"/>
3786 <element name="Name" type="rm:ResourceNameType"
3787 minOccurs="0" maxOccurs="1"/>
3788 <element name="TypeStructure" type="rm:ValueListType"
3789 minOccurs="0" maxOccurs="1"/>
3790 <element name="TypeInfo" type="rm:TypeInfoType"
3791 minOccurs="0" maxOccurs="1"/>
3792 <element name="Keyword" type="rm:ValueListType"
3793 minOccurs="0" maxOccurs="unbounded"/>
3794 <element name="Description" type="rm:DescriptionType"
3795 minOccurs="0" maxOccurs="1"/>
3796 <element name="Credentials" type="rm:CredentialsType"
3797 minOccurs="0" maxOccurs="1"/>
3798 <element name="Certifications" type="rm:CertificationsType"
3799 minOccurs="0" maxOccurs="1"/>
3800 <element name="SpecialRequirements"
3801 type="rm:SpecialRequirementsType" minOccurs="0"
3802 maxOccurs="1"/>
3803 </sequence>
3804 </complexType>
3805 </element>
3806 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3807 <complexType>
3808 <sequence>
3809 <element name="Quantity" type="rm:QuantityType"
3810 minOccurs="0" maxOccurs="1"/>
3811 <element name="Restrictions" type="rm:RestrictionsType"
3812 minOccurs="0" maxOccurs="1"/>
3813 <element name="AnticipatedFunction"
3814 type="rm:AnticipatedFunctionType" minOccurs="0"
3815 maxOccurs="1"/>
3816 </sequence>
3817 </complexType>
3818 </element>
3819 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3820 <complexType>
3821 <sequence>
3822 <element name="ScheduleType">
3823 <simpleType>
3824 <restriction base="rm:ScheduleTypeType">
3825 <enumeration value="RequestedArrival"/>
3826 <enumeration value="RequestedDeparture"/>
3827 <enumeration value="EstimatedReturnDeparture"/>
3828 <enumeration value="EstimatedReturnArrival"/>
3829 <enumeration value="ReportTo"/>
3830 <enumeration value="Route"/>
3831 </restriction>
3832 </simpleType>
3833 </element>
3834 <element name="DateTime" type="rm:DateTimeType"
3835 minOccurs="0" maxOccurs="1"/>
3836 <element name="Location" type="rm:LocationType"
3837 minOccurs="0" maxOccurs="1"/>
3838 </sequence>
3839 </complexType>
3840 </element>
3841 </sequence>
3842 </complexType>
3843 </element>
3844 </sequence>
3845 </complexType>

```

3846
3847

```
</element>  
</schema>
```

3848 A.4 ResponseToRequestResource Message Schema

```
3849 <schema xmlns="http://www.w3.org/2001/XMLSchema"  
3850   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
3851   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
3852   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
3853   xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
3854   elementFormDefault="qualified"  
3855   attributeFormDefault="unqualified">  
3856   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
3857     schemaLocation="EDXL-RMCommonTypes.xsd"/>  
3858   <!-- This schema describes the structure of  
3859     EDXL-RM "ResponseToRequestResource"  
3860     messages.-->  
3861   <element name="ResponseToRequestResource">  
3862     <complexType>  
3863       <sequence>  
3864         <element name="MessageID" type="rm:MessageIDType"/>  
3865         <element name="SentDateTime" type="rm:DateTimeType"/>  
3866         <element name="MessageContentType">  
3867           <simpleType>  
3868             <restriction base="rm:MessageContentTypeType">  
3869               <enumeration value="ResponseToRequestResource"/>  
3870             </restriction>  
3871           </simpleType>  
3872         </element>  
3873         <element name="MessageDescription" type="rm:MessageDescriptionType"  
3874           minOccurs="0" maxOccurs="1"/>  
3875         <element name="OriginatingMessageID" type="rm:MessageIDType"/>  
3876         <element name="PrecedingMessageID" type="rm:MessageIDType"/>  
3877         <element name="IncidentInformation" type="rm:IncidentInformationType"  
3878           minOccurs="0" maxOccurs="unbounded"/>  
3879         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"  
3880           maxOccurs="1"/>  
3881         <element name="Funding" type="rm:FundingType" minOccurs="0"  
3882           maxOccurs="unbounded"/>  
3883         <element name="ContactInformation" type="rm:ContactInformationType"  
3884           minOccurs="1" maxOccurs="unbounded"/>  
3885         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">  
3886           <complexType>  
3887             <sequence>  
3888               <element name="ResourceInfoElementID"  
3889                 type="rm:ResourceInfoElementIDType"/>  
3890               <element name="ResponseInformation" type="rm:ResponseInformationType"/>  
3891               <element name="Resource" minOccurs="0" maxOccurs="1">  
3892                 <complexType>  
3893                   <sequence>  
3894                     <!-- One (or more) of first three elements is required -->  
3895                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"  
3896                       maxOccurs="1"/>  
3897                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"  
3898                       maxOccurs="1"/>  
3899                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"  
3900                       maxOccurs="1"/>  
3901                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"  
3902                       maxOccurs="1"/>  
3903                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"  
3904                       maxOccurs="unbounded"/>  
3905                     <element name="Description" type="rm:DescriptionType" minOccurs="0"  
3906                       maxOccurs="1"/>  
3907                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"  
3908                       maxOccurs="1"/>  
3909                     <element name="Certifications" type="rm:CertificationsType"  
3910                       minOccurs="0" maxOccurs="1"/>  
3911                     <element name="SpecialRequirements"  
3912                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
```



```

3913     <element name="ResponsibleParty" type="rm:ContactInformationType"
3914         minOccurs="0" maxOccurs="1"/>
3915     <element name="OwnershipInformation"
3916         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3917     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3918         <complexType>
3919             <sequence>
3920                 <element name="InventoryRefreshDateTime"
3921                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3922                 <element name="DeploymentStatus" type="rm:ValueListType"
3923                     minOccurs="0" maxOccurs="1"/>
3924                 <element name="Availability" type="rm:AvailabilityType"
3925                     minOccurs="0" maxOccurs="1"/>
3926             </sequence>
3927         </complexType>
3928     </element>
3929 </sequence>
3930 </complexType>
3931 </element>
3932 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3933     <complexType>
3934         <sequence>
3935             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3936                 maxOccurs="1"/>
3937             <element name="Restrictions" type="rm:RestrictionsType"
3938                 minOccurs="0" maxOccurs="1"/>
3939             <element name="AnticipatedFunction"
3940                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3941             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3942                 maxOccurs="1"/>
3943             <element name="AssignmentInstructions"
3944                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3945         </sequence>
3946     </complexType>
3947 </element>
3948 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3949     <complexType>
3950         <sequence>
3951             <element name="ScheduleType">
3952                 <simpleType>
3953                     <restriction base="rm:ScheduleTypeType">
3954                         <enumeration value="EstimatedArrival"/>
3955                         <enumeration value="EstimatedDeparture"/>
3956                         <enumeration value="RequestedReturnDeparture"/>
3957                         <enumeration value="RequestedReturnArrival"/>
3958                         <enumeration value="BeginAvailable"/>
3959                         <enumeration value="EndAvailable"/>
3960                         <enumeration value="RequestedArrival"/>
3961                         <enumeration value="RequestedDeparture"/>
3962                         <enumeration value="EstimatedReturnDeparture"/>
3963                         <enumeration value="ReportTo"/>
3964                         <enumeration value="Route"/>
3965                     </restriction>
3966                 </simpleType>
3967             </element>
3968             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3969                 maxOccurs="1"/>
3970             <element name="Location" type="rm:LocationType" minOccurs="0"
3971                 maxOccurs="1"/>
3972         </sequence>
3973     </complexType>
3974 </element>
3975 </sequence>
3976 </complexType>
3977 </element>
3978 </sequence>
3979 </complexType>
3980 </element>
3981 </schema>

```

A.5 RequisitionResource Message Schema

```

3983 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3984   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3985   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3986   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3987   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3988   elementFormDefault="qualified"
3989   attributeFormDefault="unqualified">
3990   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3991     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3992   <!-- This schema describes the structure of
3993     EDXL-RM "RequisitionResource" messages.-->
3994   <element name="RequisitionResource">
3995     <complexType>
3996       <sequence>
3997         <element name="MessageID" type="rm:MessageIDType"/>
3998         <element name="SentDateTime" type="rm:DateTimeType"/>
3999         <element name="MessageContentType">
4000           <simpleType>
4001             <restriction base="rm:MessageContentTypeType">
4002               <enumeration value="RequisitionResource"/>
4003             </restriction>
4004           </simpleType>
4005         </element>
4006         <element name="MessageDescription" type="rm:MessageDescriptionType"
4007           minOccurs="0" maxOccurs="1"/>
4008         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4009         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4010           maxOccurs="1"/>
4011         <element name="IncidentInformation" type="rm:IncidentInformationType"
4012           minOccurs="0" maxOccurs="unbounded"/>
4013         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4014           maxOccurs="1"/>
4015         <element name="Funding" type="rm:FundingType" minOccurs="1"
4016           maxOccurs="unbounded"/>
4017         <element name="ContactInformation" type="rm:ContactInformationType"
4018           minOccurs="1" maxOccurs="unbounded"/>
4019         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4020           <complexType>
4021             <sequence>
4022               <element name="ResourceInfoElementID"
4023                 type="rm:ResourceInfoElementIDType"/>
4024               <element name="Resource">
4025                 <complexType>
4026                   <sequence>
4027                     <!-- One (or more) of first three elements is required -->
4028                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4029                       maxOccurs="1"/>
4030                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4031                       maxOccurs="1"/>
4032                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4033                       maxOccurs="1"/>
4034                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4035                       maxOccurs="1"/>
4036                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4037                       maxOccurs="unbounded"/>
4038                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4039                       maxOccurs="1"/>
4040                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4041                       maxOccurs="1"/>
4042                     <element name="Certifications" type="rm:CertificationsType"
4043                       minOccurs="0" maxOccurs="1"/>
4044                     <element name="SpecialRequirements"
4045                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4046                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4047                       minOccurs="0" maxOccurs="1"/>
4048                     <element name="OwnershipInformation"
4049                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4050                   </sequence>

```

```

4051         </complexType>
4052     </element>
4053     <element name="AssignmentInformation">
4054         <complexType>
4055             <sequence>
4056                 <element name="Quantity" type="rm:QuantityType"/>
4057                 <element name="Restrictions" type="rm:RestrictionsType"
4058                     minOccurs="0" maxOccurs="1"/>
4059                 <element name="AnticipatedFunction"
4060                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4061                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4062                     maxOccurs="1"/>
4063                 <element name="AssignmentInstructions"
4064                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4065             </sequence>
4066         </complexType>
4067     </element>
4068     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4069         <complexType>
4070             <sequence>
4071                 <element name="ScheduleType">
4072                     <simpleType>
4073                         <restriction base="rm:ScheduleTypeType">
4074                             <enumeration value="EstimatedArrival"/>
4075                             <enumeration value="EstimatedDeparture"/>
4076                             <enumeration value="EstimatedReturnDeparture"/>
4077                             <enumeration value="EstimatedReturnArrival"/>
4078                             <enumeration value="ReportTo"/>
4079                             <enumeration value="RequestedArrival"/>
4080                             <enumeration value="RequestedDeparture"/>
4081                             <enumeration value="Route"/>
4082                         </restriction>
4083                     </simpleType>
4084                 </element>
4085                 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4086                     maxOccurs="1"/>
4087                 <element name="Location" type="rm:LocationType" minOccurs="0"
4088                     maxOccurs="1"/>
4089             </sequence>
4090         </complexType>
4091     </element>
4092 </sequence>
4093 </complexType>
4094 </element>
4095 </sequence>
4096 </complexType>
4097 </element>
4098 </schema>

```

4099 A.6 CommitResource Message Schema

```

4100 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4101     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4102     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4103     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4104     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4105     elementFormDefault="qualified"
4106     attributeFormDefault="unqualified">
4107     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4108         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4109     <!-- This schema describes the structure of
4110         EDXL-RM "CommitResource" messages.-->
4111     <element name="CommitResource">
4112         <complexType>
4113             <sequence>
4114                 <element name="MessageID" type="rm:MessageIDType"/>
4115                 <element name="SentDateTime" type="rm:DateTimeType"/>
4116                 <element name="MessageContentType">
4117                     <simpleType>

```

```

4118     <restriction base="rm:MessageContentTypeType">
4119         <enumeration value="CommitResource"/>
4120     </restriction>
4121 </simpleType>
4122 </element>
4123 <element name="MessageDescription" type="rm:MessageDescriptionType"
4124     minOccurs="0" maxOccurs="1"/>
4125 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4126 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4127 <element name="IncidentInformation" type="rm:IncidentInformationType"
4128     minOccurs="0" maxOccurs="unbounded"/>
4129 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4130     maxOccurs="1"/>
4131 <element name="Funding" type="rm:FundingType" minOccurs="0"
4132     maxOccurs="unbounded"/>
4133 <element name="ContactInformation" type="rm:ContactInformationType"
4134     minOccurs="1" maxOccurs="unbounded"/>
4135 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4136     <complexType>
4137         <sequence>
4138             <element name="ResourceInfoElementID"
4139                 type="rm:ResourceInfoElementIDType"/>
4140             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4141             <element name="Resource" minOccurs="0" maxOccurs="1">
4142                 <complexType>
4143                     <sequence>
4144                         <!-- One (or more) of first three elements is required -->
4145                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4146                             maxOccurs="1"/>
4147                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4148                             maxOccurs="1"/>
4149                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4150                             maxOccurs="1"/>
4151                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4152                             maxOccurs="1"/>
4153                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4154                             maxOccurs="unbounded"/>
4155                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4156                             maxOccurs="1"/>
4157                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4158                             maxOccurs="1"/>
4159                         <element name="Certifications" type="rm:CertificationsType"
4160                             minOccurs="0" maxOccurs="1"/>
4161                         <element name="SpecialRequirements"
4162                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4163                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4164                             minOccurs="0" maxOccurs="1"/>
4165                         <element name="OwnershipInformation"
4166                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4167                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4168                             <complexType>
4169                                 <sequence>
4170                                     <element name="InventoryRefreshDateTime"
4171                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4172                                     <element name="DeploymentStatus" type="rm:ValueListType"
4173                                         minOccurs="0" maxOccurs="1"/>
4174                                 </sequence>
4175                             </complexType>
4176                         </element>
4177                     </sequence>
4178                 </complexType>
4179             </element>
4180             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4181                 <complexType>
4182                     <sequence>
4183                         <element name="Quantity" type="rm:QuantityType"/>
4184                         <element name="Restrictions" type="rm:RestrictionsType"
4185                             minOccurs="0" maxOccurs="1"/>
4186                         <element name="AnticipatedFunction"
4187                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4188                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

4189         maxOccurs="1"/>
4190         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4191         maxOccurs="1"/>
4192         <element name="AssignmentInstructions"
4193         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4194     </sequence>
4195 </complexType>
4196 </element>
4197 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4198     <complexType>
4199         <sequence>
4200             <element name="ScheduleType">
4201                 <simpleType>
4202                     <restriction base="rm:ScheduleTypeType">
4203                         <enumeration value="ActualDeparture"/>
4204                         <enumeration value="Committed"/>
4205                         <enumeration value="RequestedArrival"/>
4206                         <enumeration value="RequestedDeparture"/>
4207                         <enumeration value="EstimatedReturnDeparture"/>
4208                         <enumeration value="RequestedReturnArrival"/>
4209                         <enumeration value="EstimatedReturnArrival"/>
4210                         <enumeration value="ReportTo"/>
4211                         <enumeration value="EstimatedArrival"/>
4212                         <enumeration value="EstimatedDeparture"/>
4213                         <enumeration value="RequestedReturnDeparture"/>
4214                         <enumeration value="BeginAvailable"/>
4215                         <enumeration value="EndAvailable"/>
4216                         <enumeration value="Current"/>
4217                         <enumeration value="Route"/>
4218                     </restriction>
4219                 </simpleType>
4220             </element>
4221             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4222             maxOccurs="1"/>
4223             <element name="Location" type="rm:LocationType" minOccurs="0"
4224             maxOccurs="1"/>
4225         </sequence>
4226     </complexType>
4227 </element>
4228 </sequence>
4229 </complexType>
4230 </element>
4231 </sequence>
4232 </complexType>
4233 </element>
4234 </schema>

```

4235 A.7 RequestInformation Message Schema

```

4236 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4237         xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4238         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4239         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4240         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4241         elementFormDefault="qualified"
4242         attributeFormDefault="unqualified">
4243     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4244     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4245     <!-- This schema describes the structure of
4246     EDXL-RM "RequestInformation" messages.-->
4247     <element name="RequestInformation">
4248         <complexType>
4249             <sequence>
4250                 <element name="MessageID" type="rm:MessageIDType"/>
4251                 <element name="SentDateTime" type="rm:DateTimeType"/>
4252                 <element name="MessageContentType">
4253                     <simpleType>
4254                         <restriction base="rm:MessageContentTypeType">
4255                             <enumeration value="RequestInformation"/>

```

```

4256         </restriction>
4257     </simpleType>
4258 </element>
4259 <element name="MessageDescription" type="rm:MessageDescriptionType" />
4260 <element name="OriginatingMessageID" type="rm:MessageIDType" />
4261 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4262     maxOccurs="1" />
4263 <element name="IncidentInformation" type="rm:IncidentInformationType"
4264     minOccurs="0" maxOccurs="unbounded" />
4265 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4266     maxOccurs="1" />
4267 <element name="Funding" type="rm:FundingType" minOccurs="0"
4268     maxOccurs="unbounded" />
4269 <element name="ContactInformation" type="rm:ContactInformationType"
4270     minOccurs="1" maxOccurs="unbounded" />
4271 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4272     <complexType>
4273         <sequence>
4274             <element name="ResourceInfoElementID"
4275                 type="rm:ResourceInfoElementIDType" />
4276             <element name="Resource" minOccurs="0" maxOccurs="1">
4277                 <complexType>
4278                     <sequence>
4279                         <!-- One (or more) of first three elements is required -->
4280                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4281                             maxOccurs="1" />
4282                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4283                             maxOccurs="1" />
4284                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4285                             maxOccurs="1" />
4286                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4287                             maxOccurs="1" />
4288                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4289                             maxOccurs="unbounded" />
4290                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4291                             maxOccurs="1" />
4292                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4293                             maxOccurs="1" />
4294                         <element name="Certifications" type="rm:CertificationsType"
4295                             minOccurs="0" maxOccurs="1" />
4296                         <element name="SpecialRequirements"
4297                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1" />
4298                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4299                             minOccurs="0" maxOccurs="1" />
4300                         <element name="OwnershipInformation"
4301                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1" />
4302                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4303                             <complexType>
4304                                 <sequence>
4305                                     <element name="InventoryRefreshDateTime"
4306                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1" />
4307                                     <element name="DeploymentStatus" type="rm:ValueListType"
4308                                         minOccurs="0" maxOccurs="1" />
4309                                     <element name="Availability" type="rm:AvailabilityType"
4310                                         minOccurs="0" maxOccurs="1" />
4311                                 </sequence>
4312                             </complexType>
4313                         </element>
4314                     </sequence>
4315                 </complexType>
4316             </element>
4317             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4318                 <complexType>
4319                     <sequence>
4320                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4321                             maxOccurs="1" />
4322                         <element name="Restrictions" type="rm:RestrictionsType"
4323                             minOccurs="0" maxOccurs="1" />
4324                         <element name="AnticipatedFunction"
4325                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1" />
4326                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

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4327         maxOccurs="1"/>
4328         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4329         maxOccurs="1"/>
4330         <element name="AssignmentInstructions"
4331         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4332     </sequence>
4333 </complexType>
4334 </element>
4335 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4336 <complexType>
4337 <sequence>
4338     <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4339     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4340     maxOccurs="1"/>
4341     <element name="Location" type="rm:LocationType" minOccurs="0"
4342     maxOccurs="1"/>
4343 </sequence>
4344 </complexType>
4345 </element>
4346 </sequence>
4347 </complexType>
4348 </element>
4349 </sequence>
4350 </complexType>
4351 </element>
4352 </schema>

```

4353 A.8 ResponseToRequestInformation Message Schema

```

4354 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4355         xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4356         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4357         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4358         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4359         elementFormDefault="qualified"
4360         attributeFormDefault="unqualified">
4361     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4362     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4363     <!-- This schema describes the structure of
4364     EDXL-RM "ResponseToRequestInformation" messages.-->
4365     <element name="ResponseToRequestInformation">
4366     <complexType>
4367     <sequence>
4368     <element name="MessageID" type="rm:MessageIDType"/>
4369     <element name="SentDateTime" type="rm:DateTimeType"/>
4370     <element name="MessageContentType">
4371     <simpleType>
4372     <restriction base="rm:MessageContentTypeType">
4373     <enumeration value="ResponseToRequestInformation"/>
4374     </restriction>
4375     </simpleType>
4376     </element>
4377     <element name="MessageDescription" type="rm:MessageDescriptionType"
4378     minOccurs="0" maxOccurs="1"/>
4379     <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4380     <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4381     <element name="IncidentInformation" type="rm:IncidentInformationType"
4382     minOccurs="0" maxOccurs="unbounded"/>
4383     <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4384     maxOccurs="1"/>
4385     <element name="Funding" type="rm:FundingType" minOccurs="0"
4386     maxOccurs="unbounded"/>
4387     <element name="ContactInformation" type="rm:ContactInformationType"
4388     minOccurs="1" maxOccurs="unbounded"/>
4389     <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4390     <complexType>
4391     <sequence>
4392     <element name="ResourceInfoElementID"
4393     type="rm:ResourceInfoElementIDType"/>

```

```

4394 <element name="ResponseInformation" type="rm:ResponseInformationType"
4395 minOccurs="0" maxOccurs="1"/>
4396 <element name="Resource" minOccurs="0" maxOccurs="1">
4397 <complexType>
4398 <sequence>
4399 <!-- One (or more) of first three elements is required -->
4400 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4401 maxOccurs="1"/>
4402 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4403 maxOccurs="1"/>
4404 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4405 maxOccurs="1"/>
4406 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4407 maxOccurs="1"/>
4408 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4409 maxOccurs="unbounded"/>
4410 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4411 maxOccurs="1"/>
4412 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4413 maxOccurs="1"/>
4414 <element name="Certifications" type="rm:CertificationsType"
4415 minOccurs="0" maxOccurs="1"/>
4416 <element name="SpecialRequirements"
4417 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4418 <element name="ResponsibleParty" type="rm:ContactInformationType"
4419 minOccurs="0" maxOccurs="1"/>
4420 <element name="OwnershipInformation"
4421 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4422 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4423 <complexType>
4424 <sequence>
4425 <element name="InventoryRefreshDateTime"
4426 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4427 <element name="DeploymentStatus" type="rm:ValueListType"
4428 minOccurs="0" maxOccurs="1"/>
4429 <element name="Availability" type="rm:AvailabilityType"
4430 minOccurs="0" maxOccurs="1"/>
4431 </sequence>
4432 </complexType>
4433 </element>
4434 </sequence>
4435 </complexType>
4436 </element>
4437 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4438 <complexType>
4439 <sequence>
4440 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4441 maxOccurs="1"/>
4442 <element name="Restrictions" type="rm:RestrictionsType"
4443 minOccurs="0" maxOccurs="1"/>
4444 <element name="AnticipatedFunction"
4445 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4446 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4447 maxOccurs="1"/>
4448 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4449 maxOccurs="1"/>
4450 <element name="AssignmentInstructions"
4451 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4452 </sequence>
4453 </complexType>
4454 </element>
4455 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4456 <complexType>
4457 <sequence>
4458 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4459 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4460 maxOccurs="1"/>
4461 <element name="Location" type="rm:LocationType" minOccurs="0"
4462 maxOccurs="1"/>
4463 </sequence>
4464 </complexType>

```



```
4465         </element>
4466     </sequence>
4467 </complexType>
4468 </element>
4469 </sequence>
4470 </complexType>
4471 </element>
4472 </schema>
```

4473 A.9 OfferUnsolicitedResource Message Schema

```
4474 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4475     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4476     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4477     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4478     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4479     elementFormDefault="qualified"
4480     attributeFormDefault="unqualified">
4481     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4482         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4483     <!-- This schema describes the structure of
4484         EDXL-RM "OfferUnsolicitedResource" messages.-->
4485     <element name="OfferUnsolicitedResource">
4486         <complexType>
4487             <sequence>
4488                 <element name="MessageID" type="rm:MessageIDType"/>
4489                 <element name="SentDateTime" type="rm:DateTimeType"/>
4490                 <element name="MessageContentType">
4491                     <simpleType>
4492                         <restriction base="rm:MessageContentTypeType">
4493                             <enumeration value="OfferUnsolicitedResource"/>
4494                         </restriction>
4495                     </simpleType>
4496                 </element>
4497                 <element name="MessageDescription" type="rm:MessageDescriptionType"
4498                     minOccurs="0" maxOccurs="1"/>
4499                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4500                 <element name="IncidentInformation" type="rm:IncidentInformationType"
4501                     minOccurs="0" maxOccurs="unbounded"/>
4502                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4503                     maxOccurs="1"/>
4504                 <element name="ContactInformation" type="rm:ContactInformationType"
4505                     minOccurs="1" maxOccurs="unbounded"/>
4506                 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4507                     <complexType>
4508                         <sequence>
4509                             <element name="ResourceInfoElementID"
4510                                 type="rm:ResourceInfoElementIDType"/>
4511                             <element name="Resource">
4512                                 <complexType>
4513                                     <sequence>
4514                                         <!-- One (or more) of first three elements is required -->
4515                                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4516                                             maxOccurs="1"/>
4517                                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4518                                             maxOccurs="1"/>
4519                                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4520                                             maxOccurs="1"/>
4521                                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4522                                             maxOccurs="1"/>
4523                                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4524                                             maxOccurs="unbounded"/>
4525                                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4526                                             maxOccurs="1"/>
4527                                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4528                                             maxOccurs="1"/>
4529                                         <element name="Certifications" type="rm:CertificationsType"
4530                                             minOccurs="0" maxOccurs="1"/>
4531                                         <element name="SpecialRequirements"

```

```

4532         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4533     <element name="ResponsibleParty" type="rm:ContactInformationType"
4534         minOccurs="0" maxOccurs="1"/>
4535     <element name="OwnershipInformation"
4536         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4537     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4538         <complexType>
4539             <sequence>
4540                 <element name="InventoryRefreshDateTime"
4541                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4542                 <element name="DeploymentStatus" type="rm:ValueListType"
4543                     minOccurs="0" maxOccurs="1"/>
4544                 <element name="Availability" type="rm:AvailabilityType"
4545                     minOccurs="0" maxOccurs="1"/>
4546             </sequence>
4547         </complexType>
4548     </element>
4549 </sequence>
4550 </complexType>
4551 </element>
4552 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4553     <complexType>
4554         <sequence>
4555             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4556                 maxOccurs="1"/>
4557             <element name="Restrictions" type="rm:RestrictionsType"
4558                 minOccurs="0" maxOccurs="1"/>
4559             <element name="AnticipatedFunction"
4560                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4561             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4562                 maxOccurs="1"/>
4563             <element name="AssignmentInstructions"
4564                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4565         </sequence>
4566     </complexType>
4567 </element>
4568 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4569     <complexType>
4570         <sequence>
4571             <element name="ScheduleType">
4572                 <simpleType>
4573                     <restriction base="rm:ScheduleTypeType">
4574                         <enumeration value="EstimatedArrival"/>
4575                         <enumeration value="EstimatedDeparture"/>
4576                         <enumeration value="RequestedReturnDeparture"/>
4577                         <enumeration value="RequestedReturnArrival"/>
4578                         <enumeration value="BeginAvailable"/>
4579                         <enumeration value="EndAvailable"/>
4580                         <enumeration value="Route"/>
4581                     </restriction>
4582                 </simpleType>
4583             </element>
4584             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4585                 maxOccurs="1"/>
4586             <element name="Location" type="rm:LocationType" minOccurs="0"
4587                 maxOccurs="1"/>
4588         </sequence>
4589     </complexType>
4590 </element>
4591 </sequence>
4592 </complexType>
4593 </element>
4594 </sequence>
4595 </complexType>
4596 </element>
4597 </schema>

```

A.10 ReleaseResource Message Schema

```

4599 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4600   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4601   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4602   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4603   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4604   elementFormDefault="qualified"
4605   attributeFormDefault="unqualified">
4606   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4607     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4608   <!-- This schema describes the structure of
4609     EDXL-RM "ReleaseResource" messages.-->
4610   <element name="ReleaseResource">
4611     <complexType>
4612       <sequence>
4613         <element name="MessageID" type="rm:MessageIDType"/>
4614         <element name="SentDateTime" type="rm:DateTimeType"/>
4615         <element name="MessageContentType">
4616           <simpleType>
4617             <restriction base="rm:MessageContentTypeType">
4618               <enumeration value="ReleaseResource"/>
4619             </restriction>
4620           </simpleType>
4621         </element>
4622         <element name="MessageDescription" type="rm:MessageDescriptionType"
4623           minOccurs="0" maxOccurs="1"/>
4624         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4625         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4626           maxOccurs="1"/>
4627         <element name="IncidentInformation" type="rm:IncidentInformationType"
4628           minOccurs="0" maxOccurs="unbounded"/>
4629         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4630           maxOccurs="1"/>
4631         <element name="Funding" type="rm:FundingType" minOccurs="0"
4632           maxOccurs="unbounded"/>
4633         <element name="ContactInformation" type="rm:ContactInformationType"
4634           minOccurs="1" maxOccurs="unbounded"/>
4635         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4636           <complexType>
4637             <sequence>
4638               <element name="ResourceInfoElementID"
4639                 type="rm:ResourceInfoElementIDType"/>
4640               <element name="ResponseInformation" type="rm:ResponseInformationType"
4641                 minOccurs="0" maxOccurs="1"/>
4642               <element name="Resource">
4643                 <complexType>
4644                   <sequence>
4645                     <!-- One (or more) of first three elements is required -->
4646                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4647                       maxOccurs="1"/>
4648                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4649                       maxOccurs="1"/>
4650                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4651                       maxOccurs="1"/>
4652                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4653                       maxOccurs="1"/>
4654                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4655                       maxOccurs="unbounded"/>
4656                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4657                       maxOccurs="1"/>
4658                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4659                       maxOccurs="1"/>
4660                     <element name="Certifications" type="rm:CertificationsType"
4661                       minOccurs="0" maxOccurs="1"/>
4662                     <element name="SpecialRequirements"
4663                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4664                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4665                       minOccurs="0" maxOccurs="1"/>
4666                     <element name="OwnershipInformation"

```

```

4667         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4668     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4669         <complexType>
4670             <sequence>
4671                 <element name="DeploymentStatus" type="rm:ValueListType"
4672                     minOccurs="0" maxOccurs="1"/>
4673                 <element name="Availability" type="rm:AvailabilityType"
4674                     minOccurs="0" maxOccurs="1"/>
4675             </sequence>
4676         </complexType>
4677     </element>
4678 </sequence>
4679 </complexType>
4680 </element>
4681 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4682     <complexType>
4683         <sequence>
4684             <element name="Quantity" type="rm:QuantityType"/>
4685             <element name="Restrictions" type="rm:RestrictionsType"
4686                 minOccurs="0" maxOccurs="1"/>
4687             <element name="AnticipatedFunction"
4688                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4689             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4690                 maxOccurs="1"/>
4691             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4692                 maxOccurs="1"/>
4693             <element name="AssignmentInstructions"
4694                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4695         </sequence>
4696     </complexType>
4697 </element>
4698 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4699     <complexType>
4700         <sequence>
4701             <element name="ScheduleType">
4702                 <simpleType>
4703                     <restriction base="rm:ScheduleTypeType">
4704                         <enumeration value="ActualReturnDeparture"/>
4705                         <enumeration value="Current"/>
4706                         <enumeration value="RequestedArrival"/>
4707                         <enumeration value="EstimatedArrival"/>
4708                         <enumeration value="ActualArrival"/>
4709                         <enumeration value="RequestedDeparture"/>
4710                         <enumeration value="EstimatedDeparture"/>
4711                         <enumeration value="ActualDeparture"/>
4712                         <enumeration value="RequestedReturnDeparture"/>
4713                         <enumeration value="RequestedReturnArrival"/>
4714                         <enumeration value="BeginAvailable"/>
4715                         <enumeration value="EndAvailable"/>
4716                         <enumeration value="Committed"/>
4717                         <enumeration value="ReportTo"/>
4718                         <enumeration value="EstimatedReturnDeparture"/>
4719                         <enumeration value="EstimatedReturnArrival"/>
4720                         <enumeration value="Route"/>
4721                     </restriction>
4722                 </simpleType>
4723             </element>
4724             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4725                 maxOccurs="1"/>
4726             <element name="Location" type="rm:LocationType" minOccurs="0"
4727                 maxOccurs="1"/>
4728         </sequence>
4729     </complexType>
4730 </element>
4731 </sequence>
4732 </complexType>
4733 </element>
4734 </sequence>
4735 </complexType>
4736 </element>

```

4738 **A.11 RequestReturn Message Schema**

```

4739 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4740   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4741   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4742   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4743   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4744   elementFormDefault="qualified"
4745   attributeFormDefault="unqualified">
4746   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4747     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4748   <!-- This schema describes the structure of
4749     EDXL-RM "RequestReturn" messages.-->
4750   <element name="RequestReturn">
4751     <complexType>
4752       <sequence>
4753         <element name="MessageID" type="rm:MessageIDType"/>
4754         <element name="SentDateTime" type="rm:DateTimeType"/>
4755         <element name="MessageContentType">
4756           <simpleType>
4757             <restriction base="rm:MessageContentTypeType">
4758               <enumeration value="RequestReturn"/>
4759             </restriction>
4760           </simpleType>
4761         </element>
4762         <element name="MessageDescription" type="rm:MessageDescriptionType"
4763           minOccurs="0" maxOccurs="1"/>
4764         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4765         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4766           maxOccurs="1"/>
4767         <element name="IncidentInformation" type="rm:IncidentInformationType"
4768           minOccurs="0" maxOccurs="unbounded"/>
4769         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4770           maxOccurs="1"/>
4771         <element name="Funding" type="rm:FundingType" minOccurs="0"
4772           maxOccurs="unbounded"/>
4773         <element name="ContactInformation" type="rm:ContactInformationType"
4774           minOccurs="1" maxOccurs="unbounded"/>
4775         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4776           <complexType>
4777             <sequence>
4778               <element name="ResourceInfoElementID"
4779                 type="rm:ResourceInfoElementIDType"/>
4780               <element name="Resource">
4781                 <complexType>
4782                   <sequence>
4783                     <!-- One (or more) of first three elements is required -->
4784                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4785                       maxOccurs="1"/>
4786                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4787                       maxOccurs="1"/>
4788                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4789                       maxOccurs="1"/>
4790                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4791                       maxOccurs="1"/>
4792                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4793                       maxOccurs="unbounded"/>
4794                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4795                       maxOccurs="1"/>
4796                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4797                       maxOccurs="1"/>
4798                     <element name="Certifications" type="rm:CertificationsType"
4799                       minOccurs="0" maxOccurs="1"/>
4800                     <element name="SpecialRequirements"
4801                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4802                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4803                       minOccurs="0" maxOccurs="1"/>

```

```

4804     <element name="OwnershipInformation"
4805         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4806     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4807         <complexType>
4808             <sequence>
4809                 <element name="DeploymentStatus" type="rm:ValueListType"
4810                     minOccurs="0" maxOccurs="1"/>
4811                 <element name="Availability" type="rm:AvailabilityType"
4812                     minOccurs="0" maxOccurs="1"/>
4813             </sequence>
4814         </complexType>
4815     </element>
4816 </sequence>
4817 </complexType>
4818 </element>
4819 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4820     <complexType>
4821         <sequence>
4822             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4823                 maxOccurs="1"/>
4824             <element name="Restrictions" type="rm:RestrictionsType"
4825                 minOccurs="0" maxOccurs="1"/>
4826             <element name="AnticipatedFunction"
4827                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4828             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4829                 maxOccurs="1"/>
4830             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4831                 maxOccurs="1"/>
4832             <element name="AssignmentInstructions"
4833                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4834         </sequence>
4835     </complexType>
4836 </element>
4837 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4838     <complexType>
4839         <sequence>
4840             <element name="ScheduleType">
4841                 <simpleType>
4842                     <restriction base="rm:ScheduleTypeType">
4843                         <enumeration value="RequestedArrival"/>
4844                         <enumeration value="EstimatedArrival"/>
4845                         <enumeration value="ActualArrival"/>
4846                         <enumeration value="RequestedDeparture"/>
4847                         <enumeration value="EstimatedDeparture"/>
4848                         <enumeration value="ActualDeparture"/>
4849                         <enumeration value="RequestedReturnDeparture"/>
4850                         <enumeration value="RequestedReturnArrival"/>
4851                         <enumeration value="BeginAvailable"/>
4852                         <enumeration value="EndAvailable"/>
4853                         <enumeration value="Committed"/>
4854                         <enumeration value="ReportTo"/>
4855                         <enumeration value="Route"/>
4856                     </restriction>
4857                 </simpleType>
4858             </element>
4859             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4860                 maxOccurs="1"/>
4861             <element name="Location" type="rm:LocationType" minOccurs="0"
4862                 maxOccurs="1"/>
4863         </sequence>
4864     </complexType>
4865 </element>
4866 </sequence>
4867 </complexType>
4868 </element>
4869 </sequence>
4870 </complexType>
4871 </element>
4872 </schema>

```

A.12 ResponseToRequestReturn Message Schema

```

4874 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4875   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4876   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4877   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4878   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4879   elementFormDefault="qualified"
4880   attributeFormDefault="unqualified">
4881   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4882     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4883   <!-- This schema describes the structure of
4884     EDXL-RM "ResponseToRequestReturn" messages.-->
4885   <element name="ResponseToRequestReturn">
4886     <complexType>
4887       <sequence>
4888         <element name="MessageID" type="rm:MessageIDType"/>
4889         <element name="SentDateTime" type="rm:DateTimeType"/>
4890         <element name="MessageContentType">
4891           <simpleType>
4892             <restriction base="rm:MessageContentTypeType">
4893               <enumeration value="ResponseToRequestReturn"/>
4894             </restriction>
4895           </simpleType>
4896         </element>
4897         <element name="MessageDescription" type="rm:MessageDescriptionType"
4898           minOccurs="0" maxOccurs="1"/>
4899         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4900         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4901         <element name="IncidentInformation" type="rm:IncidentInformationType"
4902           minOccurs="0" maxOccurs="unbounded"/>
4903         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4904           maxOccurs="1"/>
4905         <element name="Funding" type="rm:FundingType" minOccurs="0"
4906           maxOccurs="unbounded"/>
4907         <element name="ContactInformation" type="rm:ContactInformationType"
4908           minOccurs="1" maxOccurs="unbounded"/>
4909         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4910           <complexType>
4911             <sequence>
4912               <element name="ResourceInfoElementID"
4913                 type="rm:ResourceInfoElementIDType"/>
4914               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4915               <element name="Resource" minOccurs="0" maxOccurs="1">
4916                 <complexType>
4917                   <sequence>
4918                     <!-- One (or more) of first three elements is required -->
4919                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4920                       maxOccurs="1"/>
4921                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4922                       maxOccurs="1"/>
4923                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4924                       maxOccurs="1"/>
4925                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4926                       maxOccurs="1"/>
4927                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4928                       maxOccurs="unbounded"/>
4929                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4930                       maxOccurs="1"/>
4931                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4932                       maxOccurs="1"/>
4933                     <element name="Certifications" type="rm:CertificationsType"
4934                       minOccurs="0" maxOccurs="1"/>
4935                     <element name="SpecialRequirements"
4936                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4937                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4938                       minOccurs="0" maxOccurs="1"/>
4939                     <element name="OwnershipInformation"
4940                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4941                     <element name="ResourceStatus">

```

```

4942         <complexType>
4943             <sequence>
4944                 <element name="DeploymentStatus" type="rm:ValueListType"/>
4945                 <element name="Availability" type="rm:AvailabilityType"/>
4946             </sequence>
4947         </complexType>
4948     </element>
4949 </sequence>
4950 </complexType>
4951 </element>
4952 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4953     <complexType>
4954         <sequence>
4955             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4956                 maxOccurs="1"/>
4957             <element name="Restrictions" type="rm:RestrictionsType"
4958                 minOccurs="0" maxOccurs="1"/>
4959             <element name="AnticipatedFunction"
4960                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4961             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4962                 maxOccurs="1"/>
4963             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4964                 maxOccurs="1"/>
4965             <element name="AssignmentInstructions"
4966                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4967         </sequence>
4968     </complexType>
4969 </element>
4970 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4971     <complexType>
4972         <sequence>
4973             <element name="ScheduleType">
4974                 <simpleType>
4975                     <restriction base="rm:ScheduleTypeType">
4976                         <enumeration value="ActualReturnDeparture"/>
4977                         <enumeration value="RequestedArrival"/>
4978                         <enumeration value="EstimatedArrival"/>
4979                         <enumeration value="ActualArrival"/>
4980                         <enumeration value="RequestedDeparture"/>
4981                         <enumeration value="EstimatedDeparture"/>
4982                         <enumeration value="ActualDeparture"/>
4983                         <enumeration value="RequestedReturnDeparture"/>
4984                         <enumeration value="RequestedReturnArrival"/>
4985                         <enumeration value="BeginAvailable"/>
4986                         <enumeration value="EndAvailable"/>
4987                         <enumeration value="Committed"/>
4988                         <enumeration value="ReportTo"/>
4989                         <enumeration value="EstimatedReturnDeparture"/>
4990                         <enumeration value="EstimatedReturnArrival"/>
4991                         <enumeration value="Route"/>
4992                         <enumeration value="Current"/>
4993                     </restriction>
4994                 </simpleType>
4995             </element>
4996             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4997                 maxOccurs="1"/>
4998             <element name="Location" type="rm:LocationType" minOccurs="0"
4999                 maxOccurs="1"/>
5000         </sequence>
5001     </complexType>
5002 </element>
5003 </sequence>
5004 </complexType>
5005 </element>
5006 </sequence>
5007 </complexType>
5008 </element>
5009 </schema>

```


A.13 RequestQuote Message Schema

```

5011 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5012   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5013   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5014   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5015   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5016   elementFormDefault="qualified"
5017   attributeFormDefault="unqualified">
5018   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5019     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5020   <!-- This schema describes the structure of
5021     EDXL-RM "RequestQuote" messages.-->
5022   <element name="RequestQuote">
5023     <complexType>
5024       <sequence>
5025         <element name="MessageID" type="rm:MessageIDType"/>
5026         <element name="SentDateTime" type="rm:DateTimeType"/>
5027         <element name="MessageContentType">
5028           <simpleType>
5029             <restriction base="rm:MessageContentTypeType">
5030               <enumeration value="RequestQuote"/>
5031             </restriction>
5032           </simpleType>
5033         </element>
5034         <element name="MessageDescription" type="rm:MessageDescriptionType"
5035           minOccurs="0" maxOccurs="1"/>
5036         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5037         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5038           maxOccurs="1"/>
5039         <element name="IncidentInformation" type="rm:IncidentInformationType"
5040           minOccurs="0" maxOccurs="unbounded"/>
5041         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5042           maxOccurs="1"/>
5043         <element name="Funding" type="rm:FundingType" minOccurs="0"
5044           maxOccurs="unbounded"/>
5045         <element name="ContactInformation" type="rm:ContactInformationType"
5046           minOccurs="1" maxOccurs="unbounded"/>
5047         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5048           <complexType>
5049             <sequence>
5050               <element name="ResourceInfoElementID"
5051                 type="rm:ResourceInfoElementIDType"/>
5052               <element name="ResponseInformation" type="rm:ResponseInformationType"
5053                 minOccurs="0" maxOccurs="1"/>
5054               <element name="Resource">
5055                 <complexType>
5056                   <sequence>
5057                     <!-- One (or more) of first three elements is required -->
5058                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5059                       maxOccurs="1"/>
5060                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5061                       maxOccurs="1"/>
5062                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5063                       maxOccurs="1"/>
5064                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5065                       maxOccurs="1"/>
5066                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5067                       maxOccurs="unbounded"/>
5068                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5069                       maxOccurs="1"/>
5070                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5071                       maxOccurs="1"/>
5072                     <element name="Certifications" type="rm:CertificationsType"
5073                       minOccurs="0" maxOccurs="1"/>
5074                     <element name="SpecialRequirements"
5075                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5076                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5077                       minOccurs="0" maxOccurs="1"/>
5078                     <element name="OwnershipInformation"

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```

5079         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5080     </sequence>
5081 </complexType>
5082 </element>
5083 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5084     <complexType>
5085         <sequence>
5086             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5087                 maxOccurs="1"/>
5088             <element name="Restrictions" type="rm:RestrictionsType"
5089                 minOccurs="0" maxOccurs="1"/>
5090             <element name="AnticipatedFunction"
5091                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5092             <element name="AssignmentInstructions"
5093                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5094         </sequence>
5095     </complexType>
5096 </element>
5097 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5098     <complexType>
5099         <sequence>
5100             <element name="ScheduleType">
5101                 <simpleType>
5102                     <restriction base="rm:ScheduleTypeType">
5103                         <enumeration value="RequestedArrival"/>
5104                         <enumeration value="RequestedDeparture"/>
5105                         <enumeration value="EstimatedReturnDeparture"/>
5106                         <enumeration value="EstimatedReturnArrival"/>
5107                         <enumeration value="ReportTo"/>
5108                         <enumeration value="Route"/>
5109                     </restriction>
5110                 </simpleType>
5111             </element>
5112             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5113                 maxOccurs="1"/>
5114             <element name="Location" type="rm:LocationType" minOccurs="0"
5115                 maxOccurs="1"/>
5116         </sequence>
5117     </complexType>
5118 </element>
5119 </sequence>
5120 </complexType>
5121 </element>
5122 </sequence>
5123 </complexType>
5124 </element>
5125 </schema>

```

5126 A.14 ResponseToRequestQuote Message Schema

```

5127 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5128     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5129     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5130     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5131     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5132     elementFormDefault="qualified"
5133     attributeFormDefault="unqualified">
5134     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5135         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5136     <!-- This schema describes the structure of
5137         EDXL-RM "ResponseToRequestQuote" messages.-->
5138     <element name="ResponseToRequestQuote">
5139         <complexType>
5140             <sequence>
5141                 <element name="MessageID" type="rm:MessageIDType"/>
5142                 <element name="SentDateTime" type="rm:DateTimeType"/>
5143                 <element name="MessageContentType">
5144                     <simpleType>
5145                         <restriction base="rm:MessageContentTypeType">

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```

5146         <enumeration value="ResponseToRequestQuote"/>
5147     </restriction>
5148 </simpleType>
5149 </element>
5150 <element name="MessageDescription" type="rm:MessageDescriptionType"
5151     minOccurs="0" maxOccurs="1"/>
5152 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5153 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5154 <element name="IncidentInformation" type="rm:IncidentInformationType"
5155     minOccurs="0" maxOccurs="unbounded"/>
5156 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5157     maxOccurs="1"/>
5158 <element name="Funding" type="rm:FundingType" minOccurs="0"
5159     maxOccurs="unbounded"/>
5160 <element name="ContactInformation" type="rm:ContactInformationType"
5161     minOccurs="1" maxOccurs="unbounded"/>
5162 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5163     <complexType>
5164         <sequence>
5165             <element name="ResourceInfoElementID"
5166                 type="rm:ResourceInfoElementIDType"/>
5167             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5168             <element name="Resource" minOccurs="0" maxOccurs="1">
5169                 <complexType>
5170                     <sequence>
5171                         <!-- One (or more) of first three elements is required -->
5172                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5173                             maxOccurs="1"/>
5174                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5175                             maxOccurs="1"/>
5176                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5177                             maxOccurs="1"/>
5178                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5179                             maxOccurs="1"/>
5180                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5181                             maxOccurs="unbounded"/>
5182                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
5183                             maxOccurs="1"/>
5184                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5185                             maxOccurs="1"/>
5186                         <element name="Certifications" type="rm:CertificationsType"
5187                             minOccurs="0" maxOccurs="1"/>
5188                         <element name="SpecialRequirements"
5189                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5190                         <element name="ResponsibleParty" type="rm:ContactInformationType"
5191                             minOccurs="0" maxOccurs="1"/>
5192                         <element name="OwnershipInformation"
5193                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5194                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5195                             <complexType>
5196                                 <sequence>
5197                                     <element name="InventoryRefreshDateTime"
5198                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5199                                     <element name="DeploymentStatus" type="rm:ValueListType"
5200                                         minOccurs="0" maxOccurs="1"/>
5201                                     <element name="Availability" type="rm:AvailabilityType"
5202                                         minOccurs="0" maxOccurs="1"/>
5203                                 </sequence>
5204                             </complexType>
5205                         </element>
5206                     </sequence>
5207                 </complexType>
5208             </element>
5209             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5210                 <complexType>
5211                     <sequence>
5212                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5213                             maxOccurs="1"/>
5214                         <element name="Restrictions" type="rm:RestrictionsType"
5215                             minOccurs="0" maxOccurs="1"/>
5216                         <element name="AnticipatedFunction"

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```

5217         type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5218     <element name="PriceQuote" type="rm:PriceQuoteType"/>
5219     <element name="AssignmentInstructions"
5220         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5221     </sequence>
5222 </complexType>
5223 </element>
5224 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5225     <complexType>
5226         <sequence>
5227             <element name="ScheduleType">
5228                 <simpleType>
5229                     <restriction base="rm:ScheduleTypeType">
5230                         <enumeration value="EstimatedArrival"/>
5231                         <enumeration value="EstimatedDeparture"/>
5232                         <enumeration value="RequestedReturnDeparture"/>
5233                         <enumeration value="RequestedReturnArrival"/>
5234                         <enumeration value="BeginAvailable"/>
5235                         <enumeration value="EndAvailable"/>
5236                         <enumeration value="RequestedArrival"/>
5237                         <enumeration value="RequestedDeparture"/>
5238                         <enumeration value="EstimatedReturnDeparture"/>
5239                         <enumeration value="EstimatedReturnArrival"/>
5240                         <enumeration value="ReportTo"/>
5241                         <enumeration value="Route"/>
5242                     </restriction>
5243                 </simpleType>
5244             </element>
5245             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5246                 maxOccurs="1"/>
5247             <element name="Location" type="rm:LocationType" minOccurs="0"
5248                 maxOccurs="1"/>
5249         </sequence>
5250     </complexType>
5251 </element>
5252 </sequence>
5253 </complexType>
5254 </element>
5255 </sequence>
5256 </complexType>
5257 </element>
5258 </schema>

```

5259 A.15 RequestResourceDeploymentStatus Message Schema

```

5260 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5261     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5262     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5263     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5264     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5265     elementFormDefault="qualified"
5266     attributeFormDefault="unqualified">
5267     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5268         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5269     <!-- This schema describes the structure of
5270         EDXL-RM "RequestResourceDeploymentStatus" messages.-->
5271     <element name="RequestResourceDeploymentStatus">
5272         <complexType>
5273             <sequence>
5274                 <element name="MessageID" type="rm:MessageIDType"/>
5275                 <element name="SentDateTime" type="rm:DateTimeType"/>
5276                 <element name="MessageContentType">
5277                     <simpleType>
5278                         <restriction base="rm:MessageContentTypeType">
5279                             <enumeration value="RequestResourceDeploymentStatus"/>
5280                         </restriction>
5281                     </simpleType>
5282                 </element>
5283                 <element name="MessageDescription" type="rm:MessageDescriptionType"

```

```

5284     minOccurs="0" maxOccurs="1"/>
5285 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5286 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5287     maxOccurs="1"/>
5288 <element name="IncidentInformation" type="rm:IncidentInformationType"
5289     minOccurs="0" maxOccurs="unbounded"/>
5290 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5291     maxOccurs="1"/>
5292 <element name="Funding" type="rm:FundingType" minOccurs="0"
5293     maxOccurs="unbounded"/>
5294 <element name="ContactInformation" type="rm:ContactInformationType"
5295     minOccurs="1" maxOccurs="unbounded"/>
5296 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5297     <complexType>
5298         <sequence>
5299             <element name="ResourceInfoElementID"
5300                 type="rm:ResourceInfoElementIDType"/>
5301             <element name="Resource">
5302                 <complexType>
5303                     <sequence>
5304                         <!-- One (or more) of first three elements is required -->
5305                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5306                             maxOccurs="1"/>
5307                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5308                             maxOccurs="1"/>
5309                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5310                             maxOccurs="1"/>
5311                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5312                             maxOccurs="1"/>
5313                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5314                             maxOccurs="unbounded"/>
5315                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
5316                             maxOccurs="1"/>
5317                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5318                             maxOccurs="1"/>
5319                         <element name="Certifications" type="rm:CertificationsType"
5320                             minOccurs="0" maxOccurs="1"/>
5321                         <element name="SpecialRequirements"
5322                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5323                         <element name="ResponsibleParty" type="rm:ContactInformationType"
5324                             minOccurs="0" maxOccurs="1"/>
5325                         <element name="OwnershipInformation"
5326                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5327                     </sequence>
5328                 </complexType>
5329             </element>
5330 </element>
5331 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5332     <complexType>
5333         <sequence>
5334             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5335                 maxOccurs="1"/>
5336             <element name="Restrictions" type="rm:RestrictionsType"
5337                 minOccurs="0" maxOccurs="1"/>
5338             <element name="AnticipatedFunction"
5339                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5340             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5341                 maxOccurs="1"/>
5342             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5343                 maxOccurs="1"/>
5344             <element name="AssignmentInstructions"
5345                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5346         </sequence>
5347     </complexType>
5348 </element>
5349 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5350     <complexType>
5351         <sequence>
5352             <element name="ScheduleType">
5353                 <simpleType>
5354                     <restriction base="rm:ScheduleTypeType">
5355                         <enumeration value="RequestedArrival"/>

```

```

5355         <enumeration value="EstimatedArrival"/>
5356         <enumeration value="ActualArrival"/>
5357         <enumeration value="RequestedDeparture"/>
5358         <enumeration value="EstimatedDeparture"/>
5359         <enumeration value="ActualDeparture"/>
5360         <enumeration value="RequestedReturnDeparture"/>
5361         <enumeration value="EstimatedReturnDeparture"/>
5362         <enumeration value="ActualReturnDeparture"/>
5363         <enumeration value="RequestedReturnArrival"/>
5364         <enumeration value="EstimatedReturnArrival"/>
5365         <enumeration value="ActualReturnArrival"/>
5366         <enumeration value="BeginAvailable"/>
5367         <enumeration value="EndAvailable"/>
5368         <enumeration value="Committed"/>
5369         <enumeration value="ReportTo"/>
5370         <enumeration value="Route"/>
5371     </restriction>
5372 </simpleType>
5373 </element>
5374 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5375     maxOccurs="1"/>
5376 <element name="Location" type="rm:LocationType" minOccurs="0"
5377     maxOccurs="1"/>
5378 </sequence>
5379 </complexType>
5380 </element>
5381 </sequence>
5382 </complexType>
5383 </element>
5384 </sequence>
5385 </complexType>
5386 </element>
5387 </schema>

```

5388 **A.16 ReportResourceDeploymentStatus Message Schema**

```

5389 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5390     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5391     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5392     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5393     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5394     elementFormDefault="qualified"
5395     attributeFormDefault="unqualified">
5396 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5397     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5398 <!-- This schema describes the structure of
5399     EDXL-RM "ReportResourceDeploymentStatus" messages.-->
5400 <element name="ReportResourceDeploymentStatus">
5401     <complexType>
5402         <sequence>
5403             <element name="MessageID" type="rm:MessageIDType"/>
5404             <element name="SentDateTime" type="rm:DateTimeType"/>
5405             <element name="MessageContentType">
5406                 <simpleType>
5407                     <restriction base="rm:MessageContentTypeType">
5408                         <enumeration value="ReportResourceDeploymentStatus"/>
5409                     </restriction>
5410                 </simpleType>
5411             </element>
5412             <element name="MessageDescription" type="rm:MessageDescriptionType"
5413                 minOccurs="0" maxOccurs="1"/>
5414             <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5415             <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5416                 maxOccurs="1"/>
5417             <element name="IncidentInformation" type="rm:IncidentInformationType"
5418                 minOccurs="0" maxOccurs="unbounded"/>
5419             <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5420                 maxOccurs="1"/>
5421             <element name="Funding" type="rm:FundingType" minOccurs="0"

```

```

5422     maxOccurs="unbounded" />
5423 <element name="ContactInformation" type="rm:ContactInformationType"
5424     minOccurs="1" maxOccurs="unbounded" />
5425 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5426   <complexType>
5427     <sequence>
5428       <element name="ResourceInfoElementID"
5429         type="rm:ResourceInfoElementIDType" />
5430       <element name="ResponseInformation" type="rm:ResponseInformationType"
5431         minOccurs="0" maxOccurs="1" />
5432       <element name="Resource" minOccurs="0" maxOccurs="1">
5433         <complexType>
5434           <sequence>
5435             <!-- One (or more) of first three elements is required -->
5436             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5437               maxOccurs="1" />
5438             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5439               maxOccurs="1" />
5440             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5441               maxOccurs="1" />
5442             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5443               maxOccurs="1" />
5444             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5445               maxOccurs="unbounded" />
5446             <element name="Description" type="rm:DescriptionType" minOccurs="0"
5447               maxOccurs="1" />
5448             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5449               maxOccurs="1" />
5450             <element name="Certifications" type="rm:CertificationsType"
5451               minOccurs="0" maxOccurs="1" />
5452             <element name="SpecialRequirements"
5453               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1" />
5454             <element name="ResponsibleParty" type="rm:ContactInformationType"
5455               minOccurs="0" maxOccurs="1" />
5456             <element name="OwnershipInformation"
5457               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1" />
5458             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5459               <complexType>
5460                 <sequence>
5461                   <element name="InventoryRefreshDateTime"
5462                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1" />
5463                   <element name="DeploymentStatus" type="rm:ValueListType"
5464                     minOccurs="0" maxOccurs="1" />
5465                   <element name="Availability" type="rm:AvailabilityType"
5466                     minOccurs="0" maxOccurs="1" />
5467                 </sequence>
5468               </complexType>
5469             </element>
5470           </sequence>
5471         </complexType>
5472       </element>
5473     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5474       <complexType>
5475         <sequence>
5476           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5477             maxOccurs="1" />
5478           <element name="Restrictions" type="rm:RestrictionsType"
5479             minOccurs="0" maxOccurs="1" />
5480           <element name="AnticipatedFunction"
5481             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1" />
5482           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5483             maxOccurs="1" />
5484           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5485             maxOccurs="1" />
5486           <element name="AssignmentInstructions"
5487             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1" />
5488         </sequence>
5489       </complexType>
5490     </element>
5491     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5492       <complexType>

```

```

5493     <sequence>
5494     <element name="ScheduleType">
5495     <simpleType>
5496     <restriction base="rm:ScheduleTypeType">
5497     <enumeration value="RequestedArrival"/>
5498     <enumeration value="EstimatedArrival"/>
5499     <enumeration value="ActualArrival"/>
5500     <enumeration value="RequestedDeparture"/>
5501     <enumeration value="EstimatedDeparture"/>
5502     <enumeration value="ActualDeparture"/>
5503     <enumeration value="RequestedReturnDeparture"/>
5504     <enumeration value="EstimatedReturnDeparture"/>
5505     <enumeration value="ActualReturnDeparture"/>
5506     <enumeration value="RequestedReturnArrival"/>
5507     <enumeration value="EstimatedReturnArrival"/>
5508     <enumeration value="ActualReturnArrival"/>
5509     <enumeration value="BeginAvailable"/>
5510     <enumeration value="EndAvailable"/>
5511     <enumeration value="Committed"/>
5512     <enumeration value="Current"/>
5513     <enumeration value="ReportTo"/>
5514     <enumeration value="Route"/>
5515     </restriction>
5516     </simpleType>
5517     </element>
5518     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5519     maxOccurs="1"/>
5520     <element name="Location" type="rm:LocationType" minOccurs="0"
5521     maxOccurs="1"/>
5522     </sequence>
5523     </complexType>
5524     </element>
5525     </sequence>
5526     </complexType>
5527     </element>
5528     </sequence>
5529     </complexType>
5530     </element>
5531 </schema>

```


A.17 Request Extended Deployment Duration Message Schema

```

5533 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5534   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5535   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5536   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5537   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5538   elementFormDefault="qualified"
5539   attributeFormDefault="unqualified">
5540   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5541     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5542   <!-- This schema describes the structure of
5543     EDXL-RM "RequestExtendedDeploymentDuration" messages.-->
5544   <element name="RequestExtendedDeploymentDuration">
5545     <complexType>
5546       <sequence>
5547         <element name="MessageID" type="rm:MessageIDType"/>
5548         <element name="SentDateTime" type="rm:DateTimeType"/>
5549         <element name="MessageContentType">
5550           <simpleType>
5551             <restriction base="rm:MessageContentTypeType">
5552               <enumeration value="RequestExtendedDeploymentDuration"/>
5553             </restriction>
5554           </simpleType>
5555         </element>
5556         <element name="MessageDescription" type="rm:MessageDescriptionType"
5557           minOccurs="0" maxOccurs="1"/>
5558         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5559         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5560           maxOccurs="1"/>
5561         <element name="IncidentInformation" type="rm:IncidentInformationType"
5562           minOccurs="0" maxOccurs="unbounded"/>
5563         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5564           maxOccurs="1"/>
5565         <element name="Funding" type="rm:FundingType" minOccurs="0"
5566           maxOccurs="unbounded"/>
5567         <element name="ContactInformation" type="rm:ContactInformationType"
5568           minOccurs="1" maxOccurs="unbounded"/>
5569         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5570           <complexType>
5571             <sequence>
5572               <element name="ResourceInfoElementID"
5573                 type="rm:ResourceInfoElementIDType"/>
5574               <element name="Resource">
5575                 <complexType>
5576                   <sequence>
5577                     <!-- One (or more) of first three elements is required -->
5578                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5579                       maxOccurs="1"/>
5580                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5581                       maxOccurs="1"/>
5582                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5583                       maxOccurs="1"/>
5584                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5585                       maxOccurs="1"/>
5586                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5587                       maxOccurs="unbounded"/>
5588                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5589                       maxOccurs="1"/>
5590                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5591                       maxOccurs="1"/>
5592                     <element name="Certifications" type="rm:CertificationsType"
5593                       minOccurs="0" maxOccurs="1"/>
5594                     <element name="SpecialRequirements"
5595                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5596                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5597                       minOccurs="0" maxOccurs="1"/>
5598                     <element name="OwnershipInformation"
5599                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>

```

```

5600         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5601             <complexType>
5602                 <sequence>
5603                     <element name="DeploymentStatus" type="rm:ValueListType"
5604                         minOccurs="0" maxOccurs="1"/>
5605                     <element name="Availability" type="rm:AvailabilityType"
5606                         minOccurs="0" maxOccurs="1"/>
5607                 </sequence>
5608             </complexType>
5609         </element>
5610     </sequence>
5611 </complexType>
5612 </element>
5613 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5614     <complexType>
5615         <sequence>
5616             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5617                 maxOccurs="1"/>
5618             <element name="Restrictions" type="rm:RestrictionsType"
5619                 minOccurs="0" maxOccurs="1"/>
5620             <element name="AnticipatedFunction"
5621                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5622             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5623                 maxOccurs="1"/>
5624             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5625                 maxOccurs="1"/>
5626         </sequence>
5627     </complexType>
5628 </element>
5629 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5630     <complexType>
5631         <sequence>
5632             <element name="ScheduleType">
5633                 <simpleType>
5634                     <restriction base="rm:ScheduleTypeType">
5635                         <enumeration value="RequestedArrival"/>
5636                         <enumeration value="EstimatedArrival"/>
5637                         <enumeration value="ActualArrival"/>
5638                         <enumeration value="RequestedDeparture"/>
5639                         <enumeration value="EstimatedDeparture"/>
5640                         <enumeration value="ActualDeparture"/>
5641                         <enumeration value="RequestedReturnArrival"/>
5642                         <enumeration value="Committed"/>
5643                         <enumeration value="ReportTo"/>
5644                         <enumeration value="RequestedReturnDeparture"/>
5645                         <enumeration value="EstimatedReturnDeparture"/>
5646                         <enumeration value="EstimatedReturnArrival"/>
5647                         <enumeration value="Route"/>
5648                     </restriction>
5649                 </simpleType>
5650             </element>
5651             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5652                 maxOccurs="1"/>
5653             <element name="Location" type="rm:LocationType" minOccurs="0"
5654                 maxOccurs="1"/>
5655         </sequence>
5656     </complexType>
5657 </element>
5658 </sequence>
5659 </complexType>
5660 </element>
5661 </sequence>
5662 </complexType>
5663 </element>
5664 </schema>

```

5665
5666

A.18 ResponseToRequestExtendedDeploymentDuration Message Schema

```
5667 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5668   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5669   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5670   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5671   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5672   elementFormDefault="qualified"
5673   attributeFormDefault="unqualified">
5674   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5675     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5676   <!-- This schema describes the structure of
5677     EDXL-RM "ResponseToRequestExtendedDeploymentDuration" messages.-->
5678   <element name="ResponseToRequestExtendedDeploymentDuration">
5679     <complexType>
5680       <sequence>
5681         <element name="MessageID" type="rm:MessageIDType"/>
5682         <element name="SentDateTime" type="rm:DateTimeType"/>
5683         <element name="MessageContentType">
5684           <simpleType>
5685             <restriction base="rm:MessageContentTypeType">
5686               <enumeration value="ResponseToRequestExtendedDeploymentDuration"/>
5687             </restriction>
5688           </simpleType>
5689         </element>
5690         <element name="MessageDescription" type="rm:MessageDescriptionType"
5691           minOccurs="0" maxOccurs="1"/>
5692         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5693         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5694         <element name="IncidentInformation" type="rm:IncidentInformationType"
5695           minOccurs="0" maxOccurs="unbounded"/>
5696         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5697           maxOccurs="1"/>
5698         <element name="Funding" type="rm:FundingType" minOccurs="0"
5699           maxOccurs="unbounded"/>
5700         <element name="ContactInformation" type="rm:ContactInformationType"
5701           minOccurs="1" maxOccurs="unbounded"/>
5702         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5703           <complexType>
5704             <sequence>
5705               <element name="ResourceInfoElementID"
5706                 type="rm:ResourceInfoElementIDType"/>
5707               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5708               <element name="Resource" minOccurs="0" maxOccurs="1">
5709                 <complexType>
5710                   <sequence>
5711                     <!-- One (or more) of first three elements is required -->
5712                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5713                       maxOccurs="1"/>
5714                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5715                       maxOccurs="1"/>
5716                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5717                       maxOccurs="1"/>
5718                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5719                       maxOccurs="1"/>
5720                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5721                       maxOccurs="unbounded"/>
5722                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5723                       maxOccurs="1"/>
5724                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5725                       maxOccurs="1"/>
5726                     <element name="Certifications" type="rm:CertificationsType"
5727                       minOccurs="0" maxOccurs="1"/>
5728                     <element name="SpecialRequirements"
5729                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5730                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5731                       minOccurs="0" maxOccurs="1"/>
5732                     <element name="OwnershipInformation"
```

```

5733         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5734     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5735         <complexType>
5736             <sequence>
5737                 <element name="DeploymentStatus" type="rm:ValueListType"
5738                     minOccurs="0" maxOccurs="1"/>
5739                 <element name="Availability" type="rm:AvailabilityType"
5740                     minOccurs="0" maxOccurs="1"/>
5741             </sequence>
5742         </complexType>
5743     </element>
5744 </sequence>
5745 </complexType>
5746 </element>
5747 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5748     <complexType>
5749         <sequence>
5750             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5751                 maxOccurs="1"/>
5752             <element name="Restrictions" type="rm:RestrictionsType"
5753                 minOccurs="0" maxOccurs="1"/>
5754             <element name="AnticipatedFunction"
5755                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5756             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5757                 maxOccurs="1"/>
5758             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5759                 maxOccurs="1"/>
5760             <element name="AssignmentInstructions"
5761                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5762         </sequence>
5763     </complexType>
5764 </element>
5765 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5766     <complexType>
5767         <sequence>
5768             <element name="ScheduleType">
5769                 <simpleType>
5770                     <restriction base="rm:ScheduleTypeType">
5771                         <enumeration value="EndAvailable"/>
5772                         <enumeration value="RequestedArrival"/>
5773                         <enumeration value="EstimatedArrival"/>
5774                         <enumeration value="ActualArrival"/>
5775                         <enumeration value="RequestedDeparture"/>
5776                         <enumeration value="EstimatedDeparture"/>
5777                         <enumeration value="ActualDeparture"/>
5778                         <enumeration value="RequestedReturnArrival"/>
5779                         <enumeration value="Committed"/>
5780                         <enumeration value="ReportTo"/>
5781                         <enumeration value="RequestedReturnDeparture"/>
5782                         <enumeration value="EstimatedReturnDeparture"/>
5783                         <enumeration value="EstimatedReturnArrival"/>
5784                         <enumeration value="Route"/>
5785                     </restriction>
5786                 </simpleType>
5787             </element>
5788             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5789                 maxOccurs="1"/>
5790             <element name="Location" type="rm:LocationType" minOccurs="0"
5791                 maxOccurs="1"/>
5792         </sequence>
5793     </complexType>
5794 </element>
5795 </sequence>
5796 </complexType>
5797 </element>
5798 </sequence>
5799 </complexType>
5800 </element>
5801 </schema>

```

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- 5813 Mr. Sukumar Dwarkanath, Associate Member
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- 5820 Mrs. Elysa Jones, Warning Systems, Inc.
- 5821 Mr. David Kehrlein, ESRI
- 5822 Mr. Jeff Kyser, Warning Systems, Inc.
- 5823 Ron Lake, Galdos Systems Inc.
- 5824 Mr. Tom Merkle, Lockheed Martin
- 5825 Mr. Enoch Moses, ManTech Enterprise Integration Center (e-IC)
- 5826 Michelle Raymond, Associate Member
- 5827 Dr. Carl Reed, Open Geospatial Consortium, Inc. (OGC)
- 5828 Ms. Julia Ridgely, Individual
- 5829 Dr. Karen Robinson, NICTA
- 5830 Mr. Anthony Sangha, Raining Data Corporation
- 5831 Mr. Josh Shows, ESI Acquisition, Inc.
- 5832 Aviv Siegel, Athoc, Inc.
- 5833 Mr. Bryan Small, ESI Acquisition, Inc.
- 5834 Dr. Aaron Temin, Individual
- 5835 Lee Tincher, Evolution Technologies Inc.
- 5836 Mr. Tom Wall, Evolution Technologies Inc.
- 5837 Ms. Sylvia Webb, Individual

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B. Revision History

5840 [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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