



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

OASIS Standard incorporating Draft Errata

21 July 2009

Specification URIs:

This Version:

<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-cd01.doc>
(Authoritative)
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-cd01.pdf>
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/errata/EDXL-RM-v1.0-OS-errata-cd01.html>

Previous Version:

<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/os/EDXL-RM-v1.0-OS.doc> (Authoritative)
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/os/EDXL-RM-v1.0-OS.pdf>
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/os/EDXL-RM-v1.0-OS.html>

Latest Version:

<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.doc>
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.pdf>
<http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.html>

Technical Committee:

OASIS Emergency Management Technical Committee

Chair(s):

Elysa Jones, Warning Systems, Inc.

Editor(s):

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

Related work:

This specification is related to:

- [Emergency Data Exchange Language \(EDXL\) Distribution Element, v. 1.0](#)

Declared XML Namespace(s):

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

Abstract:

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

Status:

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.

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

For information on whether any patents have been disclosed that may be essential to implementing this specification, and any offers of patent licensing terms, please refer to the Intellectual Property Rights section of the Technical Committee web page at <http://www.oasis-open.org/committees/emergency/ipr.php>

The non-normative errata page for this specification is located at <http://www.oasis-open.org/committees/emergency/>.

Notices

Copyright © OASIS® 1993–2008.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any document or deliverable produced by an OASIS Technical Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

OASIS requests that any OASIS Party or any other Party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Committee Specification or OASIS Standard, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification.

OASIS invites any Party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this specification by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this specification. OASIS may include such claims on its website, but disclaims any obligation to do so.

OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this document or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Committee Specification or OASIS Standard, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.

The names "OASIS", "Emergency Data Exchange Language," "Emergency Data Exchange Language Distribution Element," "Emergency Data Exchange Language Hospital Availability Exchange," "Emergency Data Exchange Language Resource Messaging," "EDXL," "EDXL-DE," "EDXL-HAVE" and "EDXL-RM" are trademarks of OASIS, the owner and developer of this specification, and should be used only to refer to the organization and its official outputs. OASIS welcomes reference to, and implementation and use of, specifications, while reserving the right to enforce its marks against misleading uses. Please see <http://www.oasis-open.org/who/trademark.php> for above guidance.

Table of Contents

1	INTRODUCTION	8
1.1	Purpose	8
1.2	History	8
1.3	Structure of the EDXL Resource Message	9
1.4	Terminology.....	10
1.5	Normative References.....	10
1.6	Non-Normative References.....	11
2	DESIGN PRINCIPLES AND CONCEPTS (NON-NORMATIVE)	12
2.1	Requirements for Design.....	12
2.2	Distribution of EDXL-RM	13
2.2.1	EDXL DISTRIBUTION ELEMENT (EDXL-DE).....	13
2.2.2	EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION.....	13
2.3	Example Usage Scenarios	13
2.3.1	Safecom Explosion	14
2.3.2	Cedar Fire Incident	14
2.3.3	Hurricane	15
2.3.4	Pandemic Influenza	15
3	EDXL RESOURCE MESSAGING MODEL (NORMATIVE UNLESS OTHERWISE STATED)	16
3.1	Abstract Reference Model (Non-Normative)	16
3.2	Element Reference Model	18
3.3	Resource Message Types.....	18
3.4	RequestResource Message	25
3.4.1	Overview	25
3.4.2	Element Reference Model	25
3.4.3	RequestResource Message Rules	26
3.4.4	Message Flow.....	27
3.4.5	Message Example	27
3.5	ResponseToRequestResource Message	30
3.5.1	Overview	30
3.5.2	Element Reference Model	30
3.5.3	ResponseToRequestResource Message Rules.....	31
3.5.4	Message Flow.....	32
3.5.5	Message Example	32
3.6	RequisitionResource Message.....	35
3.6.1	Overview	35
3.6.2	Element Reference Model	35
3.6.3	RequisitionResource Message Rules.....	36
3.6.4	Message Flow.....	37
3.6.5	Message Example	37
3.7	CommitResource Message	40
3.7.1	Overview	40
3.7.2	Element Reference Model	40
3.7.3	CommitResource Message Rules	41
3.7.4	Message Flow.....	42
3.7.5	Message Example	42
3.8	RequestInformation Message	45
3.8.1	Overview	45

3.8.2 Element Reference Model	45
3.8.3 RequestInformation Message rules	46
3.8.4 Message Flow	47
3.8.5 Message Example	47
3.9 ResponseToRequestInformation Message	49
3.9.1 Overview	49
3.9.2 Element Reference Model	49
3.9.3 ResponseToRequestInformation Message Rules	50
3.9.4 Message Flow	51
3.9.5 Message Example	52
3.10 OfferUnsolicitedResource Message	55
3.10.1 Overview	55
3.10.2 Element Reference Model	55
3.10.3 OfferUnsolicitedResource Message Rules	56
3.10.4 Message Flow	57
3.10.5 Message Example	57
3.11 ReleaseResource Message	60
3.11.1 Overview	60
3.11.2 Element Reference Model	60
3.11.3 ReleaseResource Message Rules	61
3.11.4 Message Flow	62
3.11.5 Message Example	62
3.12 RequestReturn Message	65
3.12.1 Overview	65
3.12.2 Element Reference Model	65
3.12.3 RequestReturn Message Rules	66
3.12.4 Message Flow	67
3.12.5 Message Example	67
3.13 ResponseToRequestReturn Message	69
3.13.1 Overview	69
3.13.2 Element Reference Model	69
3.13.3 ResponseToRequestReturn Message Rules	70
3.13.4 Message Flow	71
3.13.5 Message Example	71
3.14 RequestQuote Message	73
3.14.1 Overview	73
3.14.2 Element Reference Model	73
3.14.3 RequestQuote Message Rules	74
3.14.4 Message Flow	75
3.14.5 Message Example	75
3.15 ResponseToRequestQuote Message	78
3.15.1 Overview	78
3.15.2 Element Reference Model	78
3.15.3 ResponseToRequestQuote Message Rules	79
3.15.4 Message Flow	80
3.15.5 Message Example	80
3.16 RequestResourceDeploymentStatus Message	83
3.16.1 Overview	83
3.16.2 Element Reference Model	83
3.16.3 RequestResourceDeploymentStatus Message Rules	84
3.16.4 Message Flow	85
3.16.5 Message Example	85
3.17 ReportResourceDeploymentStatus Message	87

3.17.1 Overview	87
3.17.2 Element Reference Model	87
3.17.3 ReportResourceDeploymentStatus Message Rules	88
3.17.4 Message Flow	89
3.17.5 Message Example	89
3.18 RequestExtendedDeploymentDuration	92
3.18.1 Overview	92
3.18.2 Element Reference Model	92
3.18.3 RequestExtendedDeploymentDuration Message Rules	93
3.18.4 Message Flow	94
3.18.5 Message Example	94
3.19 ResponseToRequestExtendedDeploymentDuration Message	96
3.19.1 Overview	96
3.19.2 Element Reference Model	96
3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules	97
3.19.4 Message Flow	98
3.19.5 Message Example	98
4 DATA DICTIONARY (NORMATIVE)	101
4.1.1 EDXLResourceMessage ElementReferenceType Type	101
4.1.2 IncidentInformation Element	104
4.1.3 MessageRecall Element	105
4.1.4 Funding Element	106
4.1.5 ResourceInformation Element	107
4.1.6 ResponseInformation Element	107
4.1.7 Resource Element	108
4.1.8 OwnershipInformation Element	112
4.1.9 ResourceStatus Element	114
4.1.10 AssignmentInformation Element	117
4.1.11 AssignmentInstructions Element	120
4.1.12 ScheduleInformation Element	122
4.1.13 Supporting Element Types	124
4.1.13.1 ContactInformationType	124
4.1.13.1.1 Radio Element	127
4.1.13.2 LocationType	127
4.1.13.2.1 Imported Type Definitions	128
4.1.13.3 ValueListType	131
5 CONFORMANCE	133
5.1 Conformance Targets	133
5.2 Conformance Levels	133
5.3 Conformance as an EDXL-RM Message	134
5.3.1 Level-1 EDXL-RM Message	134
5.3.2 Level-2 EDXL-RM Message	134
5.4 Conformance as an EDXL-RM Message Producer	135
5.4.1 Level-1 EDXL-RM Message Producer	135
5.4.2 Level-2 EDXL-RM Message Producer	135
A. XML SCHEMA FOR THE EDXL RESOURCE MESSAGING (NORMATIVE)	136
A.1 Resource Messaging Common Types	136
A.2 Resource Messaging Reference Schema	140
A.3 RequestResource Message Schema	142
A.4 ResponseToRequestResource Message Schema	144

A.5 RequisitionResource Message Schema.....	146
A.6 CommitResource Message Schema	147
A.7 RequestInformation Message Schema.....	149
A.8 ResponseToRequestInformation Message Schema	151
A.9 OfferUnsolicitedResource Message Schema	153
A.10 ReleaseResource Message Schema	155
A.11 RequestReturn Message Schema.....	157
A.12 ResponseToRequestReturn Message Schema	159
A.13 RequestQuote Message Schema	161
A.14 ResponseToRequestQuote Message Schema	162
A.15 RequestResourceDeploymentStatus Message Schema.....	164
A.16 ReportResourceDeploymentStatus Message Schema	166
A.17 Request Extended Deployment Duration Message Schema	169
A.18 ResponseToRequestExtendedDeploymentDuration Message Schema.....	171
A.19 Acknowledgements.....	173
B. REVISION HISTORY	174

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.

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

1.3 Structure of the EDXL Resource Message

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

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

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

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

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

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

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

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

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

- **Discovery**;
- **Ordering**; and
- **Deployment**.

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

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

1.4 Terminology

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

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

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

1.5 Normative References

- | | |
|-----------|---|
| [RFC2046] | N. Freed, <i>Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types</i> , http://www.ietf.org/rfc/rfc2046.txt , IETF RFC 2046, November 1996. |
| [RFC2119] | S. Bradner, <i>Key words for use in RFCs to Indicate Requirement Levels</i> , http://www.ietf.org/rfc/rfc2119.txt , IETF RFC 2119, March 1997. |
| [RFC3066] | H. Alvestrand, <i>Tags for the Identification of Languages</i> , http://www.ietf.org/rfc/rfc3066.txt , IETF RFC 3066, January 2001. |

136	[WGS 84]	National Geospatial Intelligence Agency, Department of Defense World Geodetic System 1984, http://earth-info.nga.mil/GandG/tr8350_2.html , NGA Technical Report TR8350.2, January 2000.
137		
138		
139	[XML 1.0]	T. Bray, <i>Extensible Markup Language (XML) 1.0 (Third Edition)</i> , http://www.w3.org/TR/REC-xml/ , W3C REC-XML-20040204, February 2004.
140		
141	[namespaces]	T. Bray, <i>Namespaces in XML</i> , http://www.w3.org/TR/REC-xml-names/ , W3C REC-xml-names-19990114, January 1999.
142		
143	[dateTime]	N. Freed, <i>XML Schema Part 2: Datatypes Second Edition</i> , http://www.w3.org/TR/xmlschema-2/#dateTime , W3C REC-xmlschema-2, October 2004.
144		
145		
146	[EDXL-HAVE]	Emergency Data Exchange Language Hospital Availability Exchange
147		http://www.oasis-
148		open.org/apps/org/workgroup/emergency/download.php/25719/emergency_edxl
149		_have-1.0-spec-pr03.pdf
150	[OGC 03-105r1]	<i>OpenGIS Geography Markup Language (GML) Implementation Specification</i> , http://portal.opengeospatial.org/files/?artifact_id=4700 , Version 3.1.1, 2003
151		
152	[OGC CRS]	Open Geospatial Consortium, Topic 2 - Spatial Referencing by
153		Coordinates (Topic 2) (CRS Abstract Specification),
154		https://portal.opengeospatial.org/files/?artifact_id=6716 , Version 3, 2004.
155	[OGC 04-092r4]	Open Geospatial Consortium, GML 3.1.1 schemas,
156		http://schemas.opengis.net/gml/3.1.1/ , 2004
157	OASIS CIQ	OASIS, Customer Information Quality (CIQ) Specifications Version 3.0, Name
158		(xNL), Address (xAL), and Party (xPIL), http://docs.oasis-
159		open.org/ciq/v3.0/specs/ , 15 June 2007
160		

161 1.6 Non-Normative References

162	[EDXL GFR]	<i>EDXL General Functional Requirements</i> , http://www.oasis-
163		open.org/committees/download.php/10031/EDXL%20General%20Functional
164		%20Requirements.doc , November 2004
165	[EDXL-DE IG]	<i>EDXL Distribution Element Implementer's Guide</i> , http://www.oasis-
166		open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.d
167		oc , August 2005
168	[EDXL-RM SRS]	<i>EDXL Resource Messaging Standard Requirements Supplement</i> , workgroup
169		http://www.oasis-
170		open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.
171		doc , October 19, 2005
172	[EDXL-RM SF]	<i>EDXL Resource Messaging Standard Format for Resource Messaging</i>
173		(candidate specification) http://www.oasis-
174		open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.d
175		oc , July 15, 2005
176	[ISO 4217]	ISO 4217:2001, <i>Codes for the representation of currencies and funds</i>
177	[ISO 4217 codes]	<i>ISO 4217 currency names and code elements</i> ,
178		http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_u
179		sed_standards_other/currency_codes/currency_codes_list-1.htm
180	[UCUM]	Gunther Schadow, Clement J. McDonald, <i>The Unified Code for Units of</i>
181		<i>Measure, Version 1.6</i> , http://aurora.regenstrief.org/UCUM/ucum.html ,
182		Regenstrief Institute for Health Care, 2005
183		

2 Design Principles and Concepts (non-normative)

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

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

2.1 Requirements for Design

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

EDXL Resource Messaging Standard Requirements Supplement, workgroup

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

In summary, the EDXL Resource Messaging specification should

1. Define a detailed message structure for the following specific EDXL Resource Message Types: (Note that requirements that are self-evident from Message Type names are not separately listed)
 - a. RequestResource
 - b. ResponseToRequestResource
 - c. RequisitionResource
 - d. CommitResource
 - e. RequestInformation
 - f. ResponseToRequestInformation
 - g. OfferUnsolicitedResource
 - h. ReleaseResource
 - i. RequestReturn
 - j. ResponseToRequestReturn
 - k. RequestQuote
 - l. ResponseToRequestQuote
 - m. RequestResourceDeploymentStatus
 - n. ReportResourceDeploymentStatus
 - o. RequestExtendedDeploymentDuration
 - p. ResponseToRequestExtendedDeploymentDuration
2. Explicitly specify use of EDXL-DE as the routing mechanism for the EDXL Resource Message
3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice of Resource demobilization and the ability to communicate information to provide for returning Resource
4. Provide ability to accept or decline in a ResponseToRequestResource that indicates availability of the requested Resource or to accept or decline to an OfferUnsolicitedResource

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

2.2 Distribution of EDXL-RM

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 messages. These Resource Messages are specifically designed as payloads of the EDXL-DE. Together EDXL-DE and EDXL-RM are intended to expedite activities associated with managing resources during all phases of Emergency Management. Routing and distribution information is found only in the EDXL-DE and not in the EDXL-RM.

2.2.1 EDXL DISTRIBUTION ELEMENT (EDXL-DE)

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

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

2.2.2 EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION

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

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

2.3 Example Usage Scenarios

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

2.3.1 SAFECOM Explosion

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

Full use case available: http://www.oasis-open.org/committees/download.php/26805/EDXL_use_example_SafecomExplosion%20060805.doc

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

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

2.3.2 Cedar Fire Incident

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

Full use case available: http://www.oasis-open.org/committees/download.php/26803/EDXL_use_example_Fire061005.doc

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

1. Final Draft_ 2003 SD Co Fire Safety Review-no pics.pdf http://www.oasis-open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire%20Safety%20Review-no%20pics.pdf
 2. Cedar Fire SDFD.pdf <http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf>
 3. City of SD City Mgr Rpt Fire 2003.pdf <http://www.oasis-open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf>
- Firestorm 2003 Case Study – Final.pdf <http://www.oasis-open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-%20Final.pdf>

2.3.3 Hurricane

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

Full use case available: http://www.oasis-open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc

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

2.3.4 Pandemic Influenza

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

Full use case available: http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc

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.

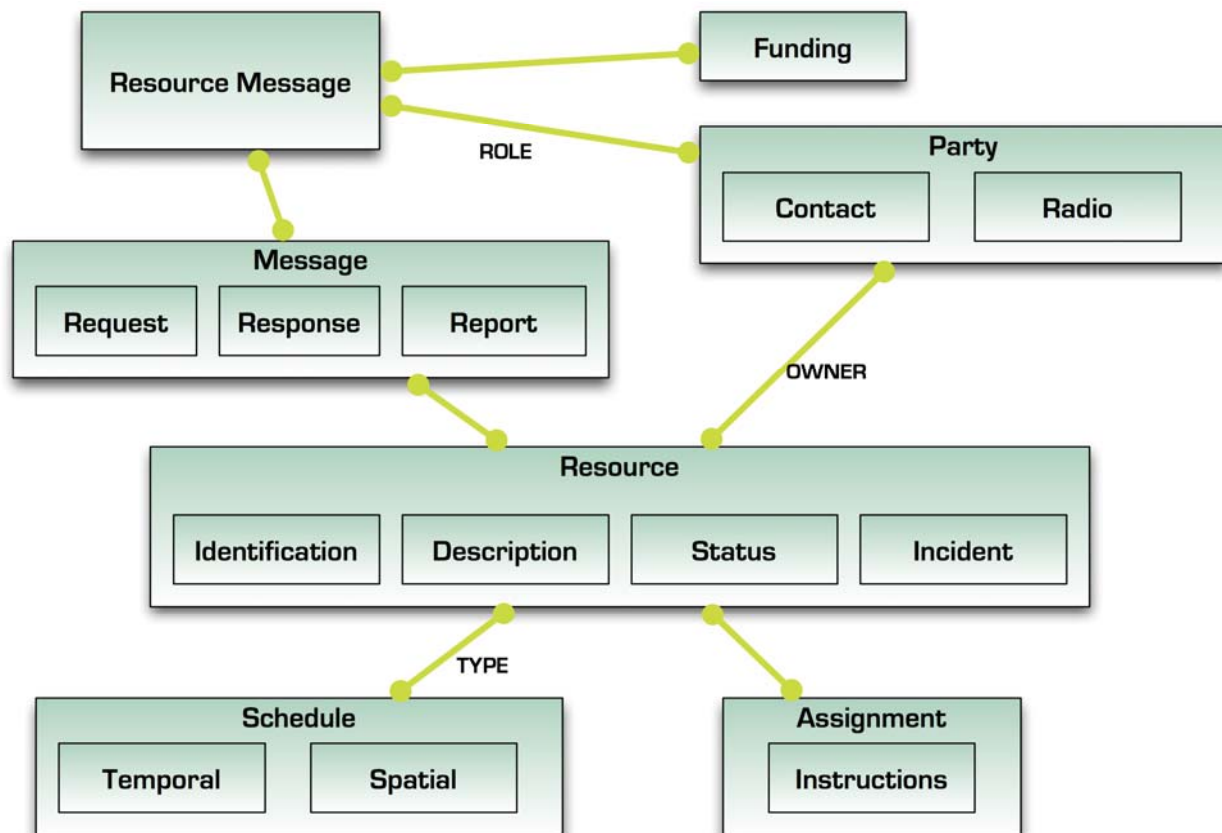


Figure 1: Resource Messaging – Abstract Reference Model

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

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

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

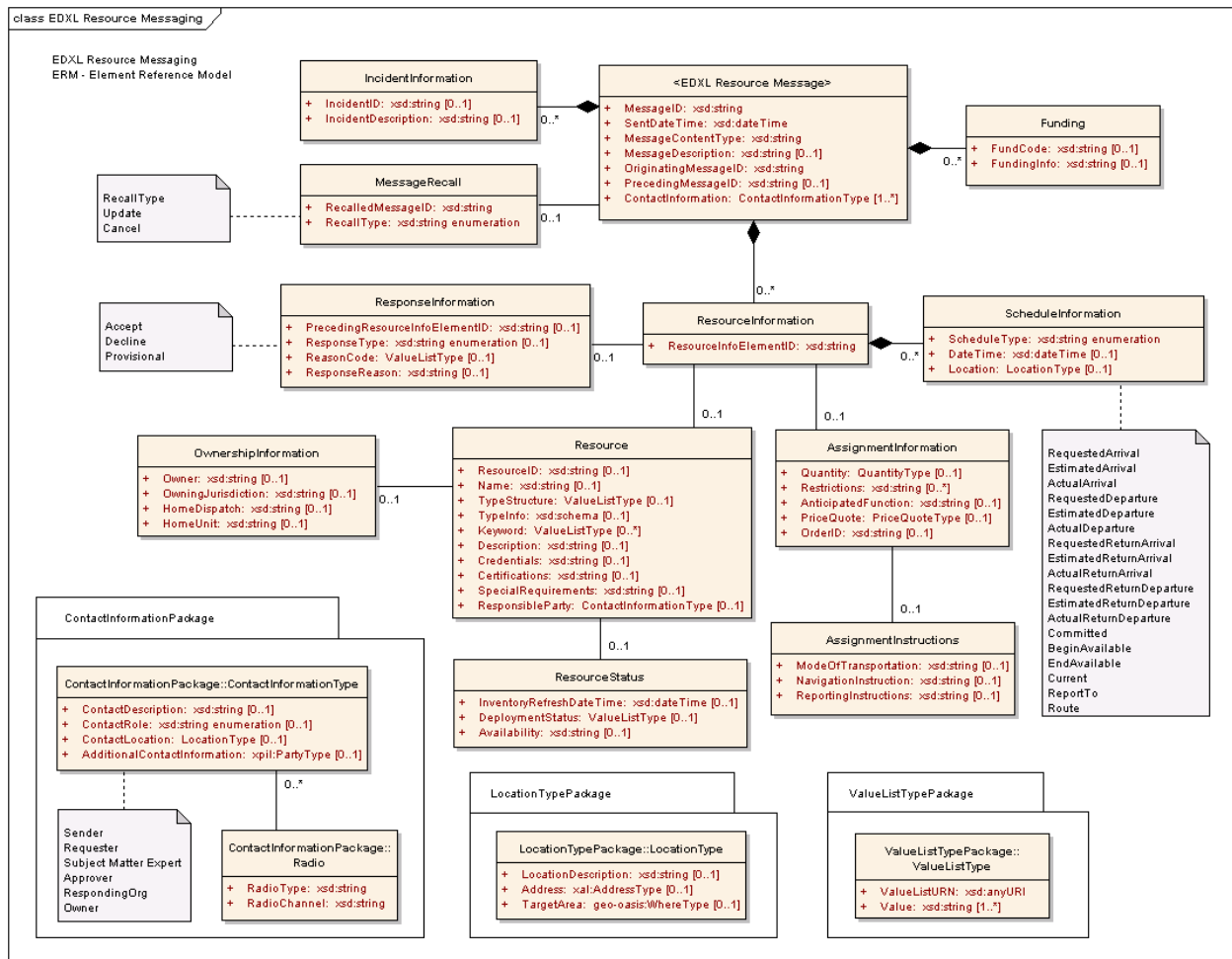


Figure 2: Resource Messaging – Element Reference Model

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

3.3 Resource Message Types

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

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

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

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

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

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.	Resource Consumer, Resource Supplier
ReportResourceDeploymentStatus	Message used to report on the current "status" of any resource.	Resource Consumer, Resource Supplier
RequestExtendedDeploymentDuration	A request initiated by the requester / receiver of resource, "I want to extend how long I need to keep this resource"	Resource Consumer
ResponseToRequestExtendedDeploymentDuration	Message used as the response to "RequestExtendedDeploymentDuration".	Resource Supplier

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

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

- Discovery,
- Ordering, and
- Deployment, as shown in Figure 3.

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

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

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

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

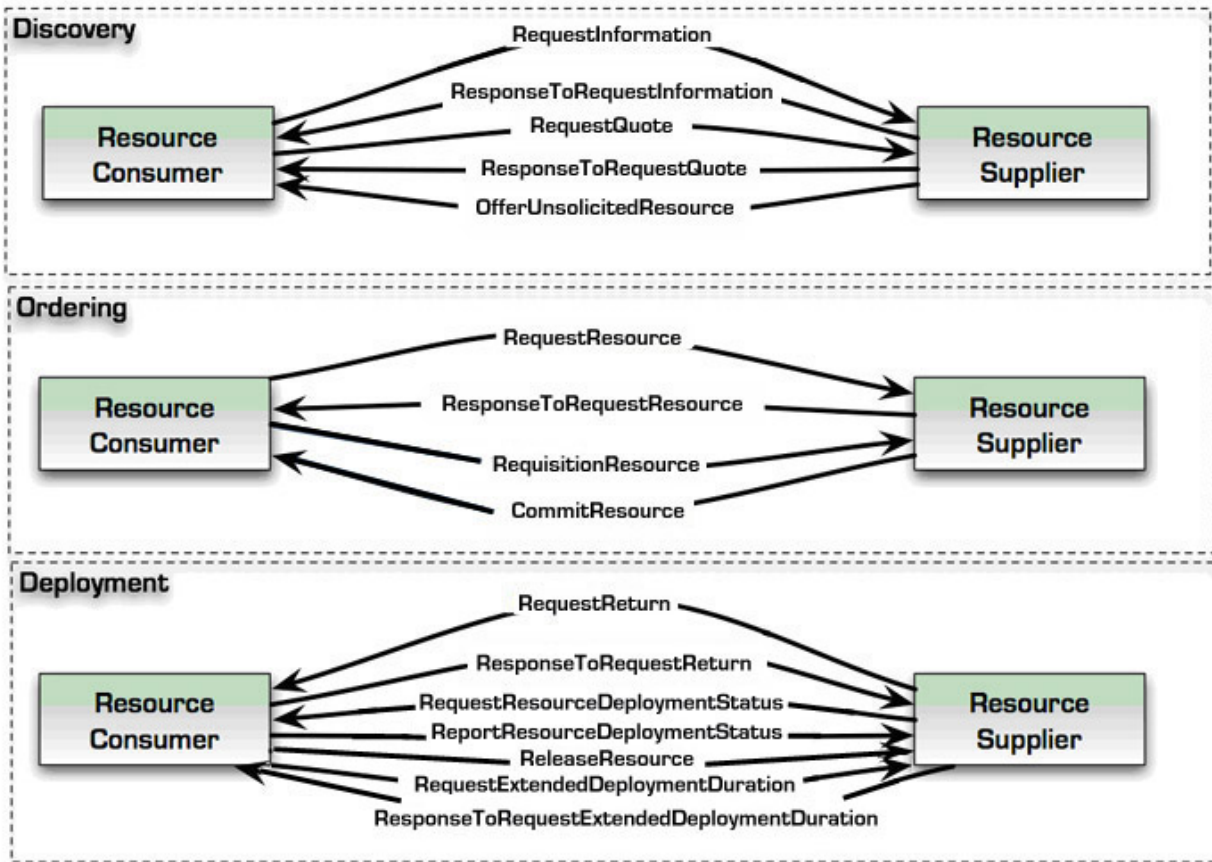


Figure 3: Resource Message Phases

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

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

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

430

431

Table 3: ScheduleTypes – Message Matrix

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

3.4 RequestResource Message

3.4.1 Overview

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

3.4.2 Element Reference Model

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

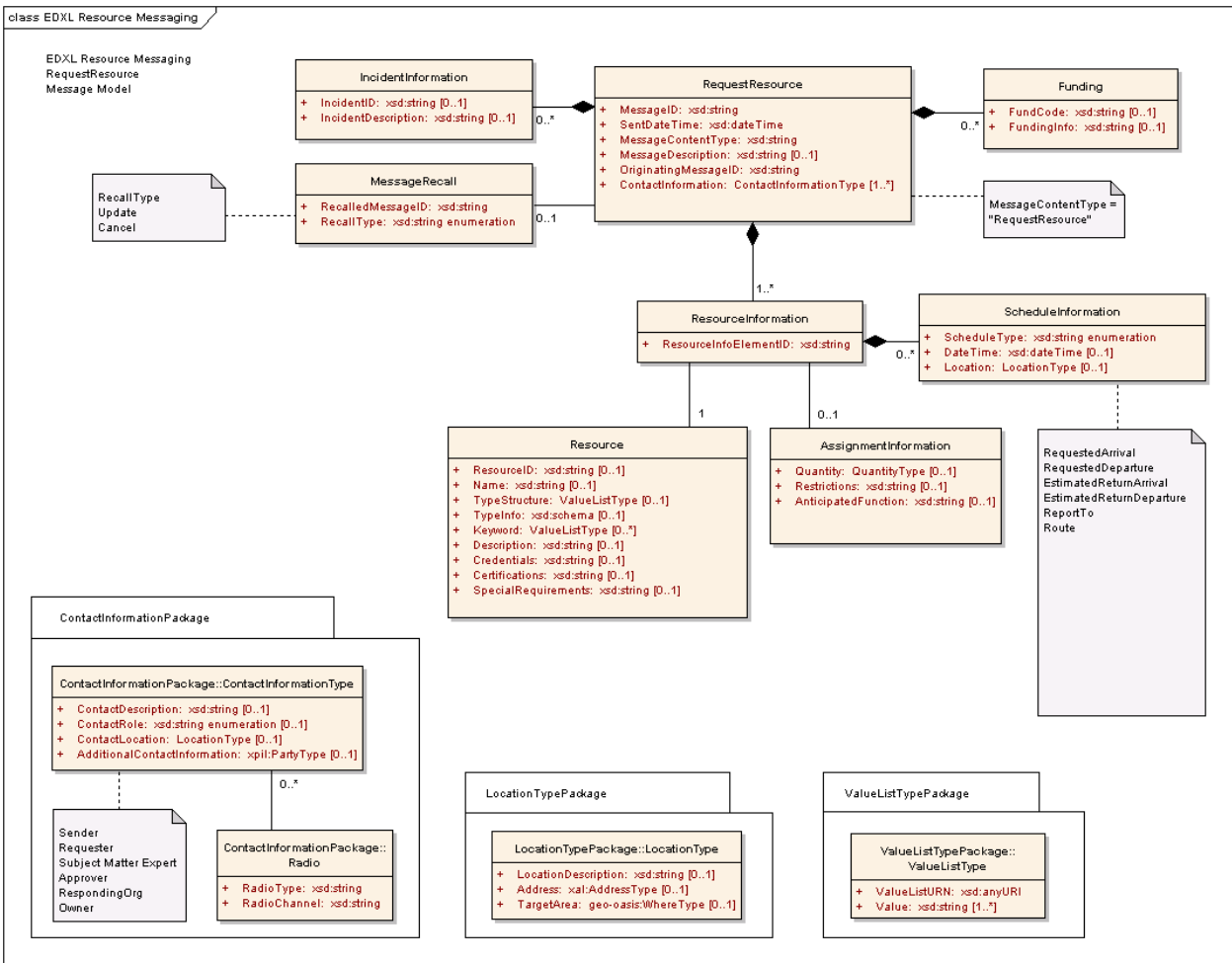


Figure 4: EDXL-RM ERM for RequestResource Message

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

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

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

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

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>

3.4.3 RequestResource Message Rules

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

- The RequestResource:MessageID, RequestResource:SentDateTime, RequestResource:MessageContentType, RequestResource:OriginatingMessageID, RequestResource:ContactInformation, and RequestResource:ResourceInformation elements MUST be present.
- The value of RequestResource:MessageContentType MUST be "RequestResource".
- If a RequestResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
- If the RequestResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a RequestResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name and/or Resource:TypeStructure MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType MUST be present and contain one of the following values:
 - "RequestedArrival", "RequestedDeparture", "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo", or "Route".

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

481 3.4.4 Message Flow

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

484 The potential responses to this message include:

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

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

488 3.4.5 Message Example

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

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

493

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

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

```

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

```

```

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

```

3.5 ResponseToRequestResource Message

3.5.1 Overview

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

3.5.2 Element Reference Model

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

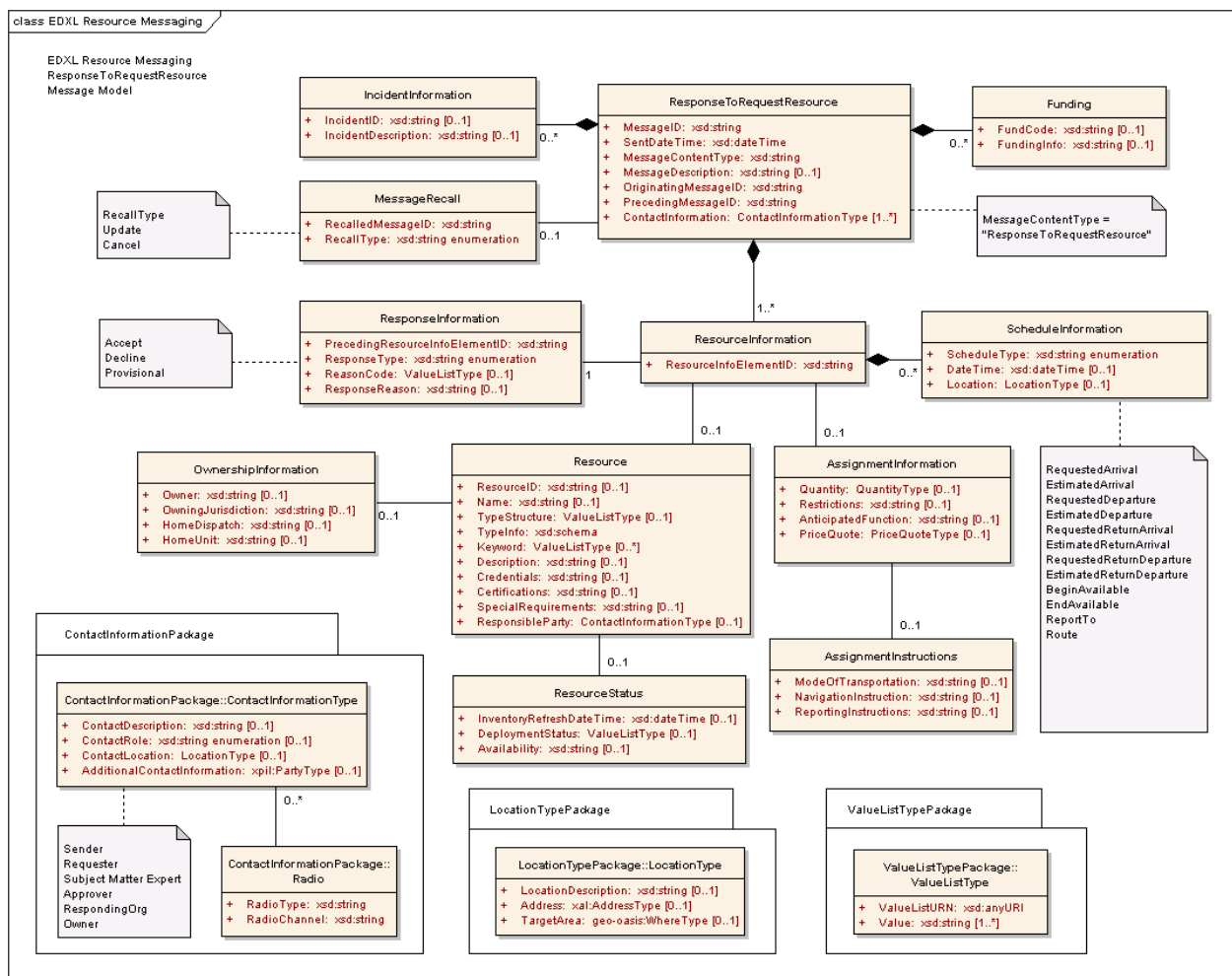


Figure 5: EDXL-RM ERM for ResponseToRequestResource Message

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

Table 4: ResponseToRequestResource Message Elements

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

3.5.3 ResponseToRequestResource Message Rules

The following rules apply to the above elements:

- The ResponseToRequestResource:MessageID, ResponseToRequestResource:SentDateTime, ResponseToRequestResource:MessageContentType, ResponseToRequestResource:OriginatingMessageID, ResponseToRequestResource:PrecedingMessageID, ResponseToRequestResource:ContactInformation, and ResponseToRequestResource:ResourceInformation elements MUST be present.
- The value of ResponseToRequestResource:MessageContentType MUST be "ResponseToRequestResource".
- If a ResponseToRequestResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
- If the ResponseToRequestResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a ResponseToRequestResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element MUST be present.
- If Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be present.
- If the ResourceInformation:AssignmentInformation element is present and the ResponseInformation:ResponseType contains a value of "Accept" or "Provisional", then the AssignmentInformation:Quantity element MUST be present.
- If ResourceInformation:ScheduleInformation is present then ScheduleInformation:ScheduleType MUST be present and contain one of the following values:
 - "EstimatedArrival", "EstimatedDeparture", "RequestedReturnDeparture", "RequestedReturnArrival", "BeginAvailable", "EndAvailable", "RequestedArrival", "RequestedDeparture", "EstimatedReturnArrival", "ReportTo" or "Route".

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

3.5.4 Message Flow

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

The potential responses to this message include:

- RequisitionResource (See Section 3.6).

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

3.5.5 Message Example

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

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

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

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

```

733     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
734     xmlns:gml="http://www.opengis.net/gml">
735 <MessageID>urn:au-qld-eoc:12334</MessageID>
736 <SentDateTime>2006-03-21T12:34:00+10:00</SentDateTime>
737 <MessageContentType>ResponseToRequestResource</MessageContentType>
738 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
739 <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
740 <IncidentInformation>
741   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
742 </IncidentInformation>
743 <ContactInformation>
744   <rm:ContactRole>Sender</rm:ContactRole>
745   <rm:AdditionalContactInformation>
746     <xpil:PartyName>
747       <xn1:PersonName>
748         <xn1:NameElement xn1:ElementType="FirstName">Charlotte</xn1:NameElement>
749         <xn1:NameElement xn1:ElementType="LastName">Ryan</xn1:NameElement>
750       </xn1:PersonName>
751       <xn1:OrganisationName>
752         <xn1:NameElement>EMA</xn1:NameElement>
753       </xn1:OrganisationName>
754     </xpil:PartyName>
755     <xpil:ContactNumbers>
756       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
757         <xpil:ContactNumberElement
758           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
759         <xpil:ContactNumberElement xpil:Type="AreaCode">2</xpil:ContactNumberElement>
760         <xpil:ContactNumberElement xpil:Type="LocalNumber">
761           9864
762           4321
763         </xpil:ContactNumberElement>
764       </xpil:ContactNumber>
765     </xpil:ContactNumbers>
766   </rm:AdditionalContactInformation>
767 </ContactInformation>
768 <ResourceInformation>
769   <ResourceInfoElementID>001</ResourceInfoElementID>
770   <ResponseInformation>
771     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
772     <rm:ResponseType>Provisional</rm:ResponseType>
773     <rm:ResponseReason>Earliest arrival date is 2006-03-25</rm:ResponseReason>
774   </ResponseInformation>
775   <ScheduleInformation>
776     <ScheduleType>EstimatedDeparture</ScheduleType>
777     <DateTime>2006-03-25T08:10:00</DateTime>
778     <Location>
779       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
780     </Location>
781   </ScheduleInformation>
782   <ScheduleInformation>
783     <ScheduleType>EstimatedArrival</ScheduleType>
784     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
785     <Location>
786       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
787     </Location>
788   </ScheduleInformation>
789   <ScheduleInformation>
790     <ScheduleType>EstimatedArrival</ScheduleType>
791     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
792     <Location>
793       <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
794       <rm:Address>
795         <xal:Country>
796           <xal:NameElement>Australia</xal:NameElement>
797         </xal:Country>
798         <xal:AdministrativeArea>
799           <xal:NameElement>QLD</xal:NameElement>
800         </xal:AdministrativeArea>
801         <xal:Locality>
802           <xal:NameElement>Innisfail</xal:NameElement>

```

```

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

```

3.6 RequisitionResource Message

3.6.1 Overview

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

3.6.2 Element Reference Model

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

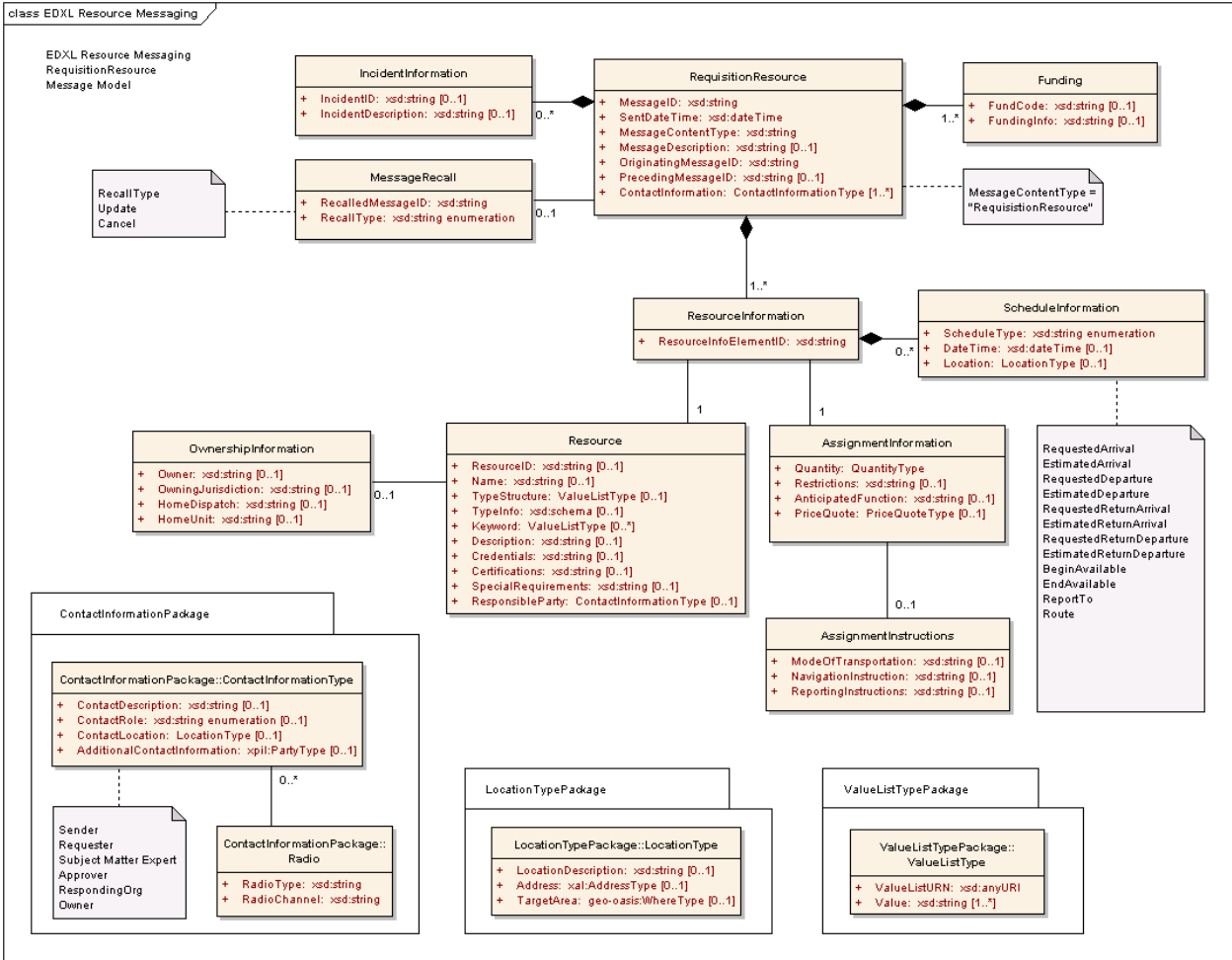


Figure 6: EDXL-RM ERM for RequisitionResource Message

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

Table 5: RequisitionResource Message Elements

Parent Element	Sub-Elements
RequisitionResource	MessageID , SentDateTime , MessageContentType [^] , MessageDescription, OriginatingMessageID , PrecedingMessageID, 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> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
AssignmentInformation	Quantity , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	ScheduleType [^] , <i>DateTime</i> , <i>Location</i>

3.6.3 RequisitionResource Message Rules

The following rules apply to the above elements:

- The RequisitionResource:MessageID, RequisitionResource:SentDateTime, RequisitionResource:MessageContentType, RequisitionResource:OriginatingMessageID, RequisitionResource:Funding, RequisitionResource:ContactInformation, and RequisitionResource:ResourceInformation elements MUST be present.
- The value of RequisitionResource:MessageContentType MUST be "RequisitionResource".
- If a RequisitionResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the RequisitionResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a RequisitionResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID, ResourceInformation:Resource and ResourceInformation:AssignmentInformation elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.

- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- The AssignmentInformation:Quantity element MUST be present.
- If ResourceInformation:ScheduleInformation is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
 - "RequestedArrival", "RequestedDeparture", "EstimatedArrival", "EstimatedDeparture", "RequestedReturnArrival", "EstimatedReturnArrival", "RequestedReturnDeparture", "EstimatedReturnDeparture", "BeginAvailable", "EndAvailable", "ReportTo", or "Route"

The schema for a RequisitionResource message can be found in Appendix A.5.

3.6.4 Message Flow

The RequisitionResource message is a message created and sent by the Resource Consumer to any number of Resource Suppliers.

The potential responses to this message include:

- CommitResource (See Section 3.7)
- This includes Accept, Decline and Provisional responses.

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

3.6.5 Message Example

Below is an example of a RequisitionResource Message, in which two resource requisitions are shown:

- Small Animal Sheltering Team (ResourceInfoElementID=001)
- Patrol and Surveillance Helicopters (ResourceInfoElementID=002).

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

```
<?xml version="1.0" encoding="UTF-8"?>
<RequisitionResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequisitionResource.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
  xmlns:gml="http://www.opengis.net/gml">
  <MessageID>urn:au-qlt-eoc:987654</MessageID>
  <SentDateTime>2006-03-21T12:39:00+10:00</SentDateTime>
  <MessageContentType>RequisitionResource</MessageContentType>
  <OriginatingMessageID>urn:au-qlt-eoc:12332</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <Funding>
    <rm:FundCode>HP4347</rm:FundCode>
  </Funding>
  <ContactInformation>
    <rm:ContactRole>Requester</rm:ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
          <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
```

```

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

```

```

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

```


3.7 CommitResource Message

3.7.1 Overview

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

3.7.2 Element Reference Model

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

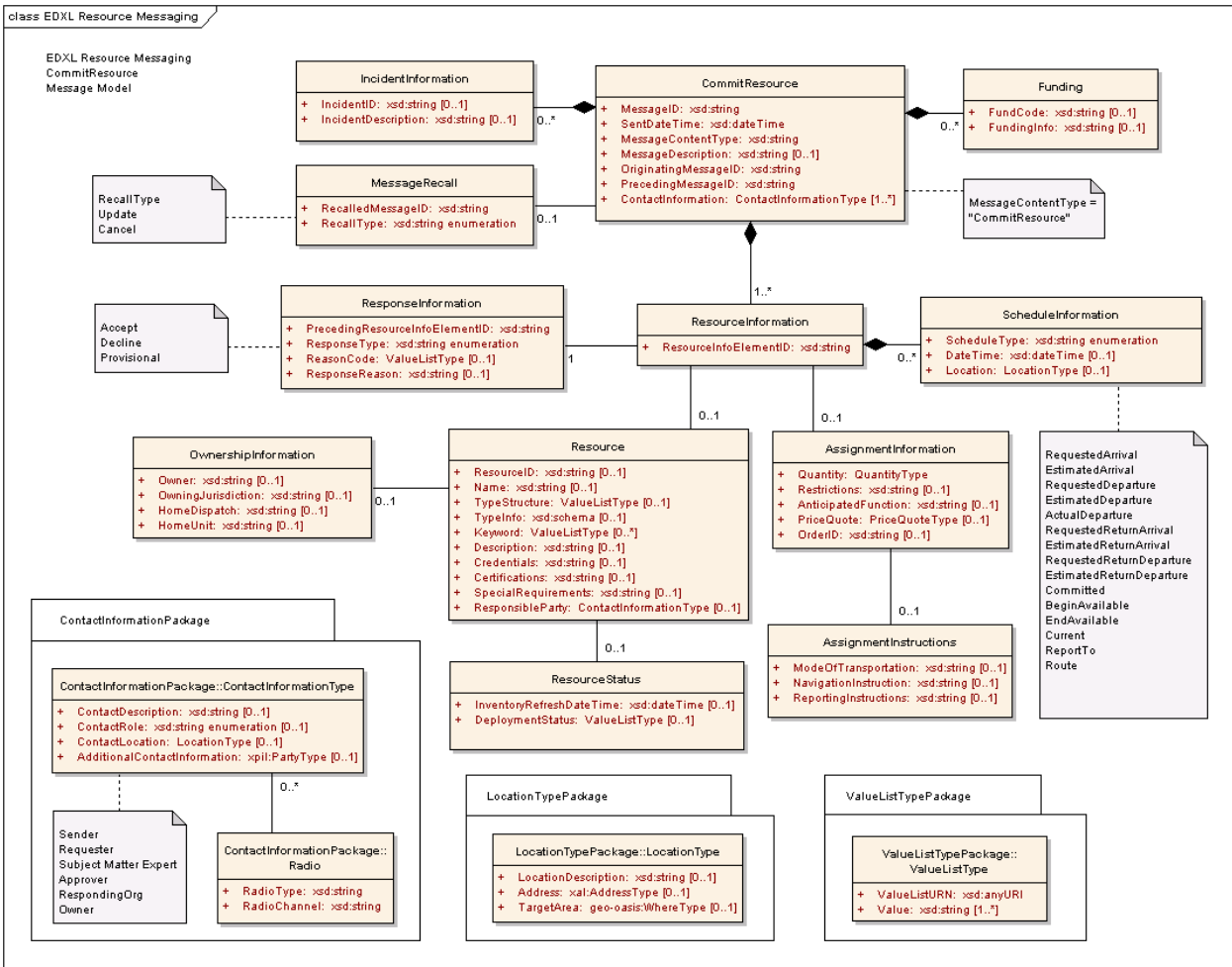


Figure 7: EDXL-RM ERM for CommitResource Message

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

Table 6: CommitResource Message Elements

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

3.7.3 CommitResource Message Rules

The following rules apply to the above elements:

- The CommitResource:MessageID, CommitResource:SentDateTime, CommitResource:MessageContentType, CommitResource:OriginatingMessageID, CommitResource:PrecedingMessageID, CommitResource:ContactInformation, and CommitResource:ResourceInformation elements MUST be present.
- The value of CommitResource:MessageContentType MUST be "CommitResource".
- If a CommitResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the CommitResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a CommitResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.

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

1099

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

1101 3.7.4 Message Flow

1102 The CommitResource message is sent by a Resource Supplier in response to either a RequestResource
1103 or RequisitionResource message sent by the Resource Consumer.

1104 The message may be canceled or updated through the CommitResource:MessageRecall element.

1105 3.7.5 Message Example

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

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

1111

1112

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

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

1183 </ResponseInformation>
1184 </ResourceInformation>
1185 </CommitResource>
1186

3.8 RequestInformation Message

3.8.1 Overview

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

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

3.8.2 Element Reference Model

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

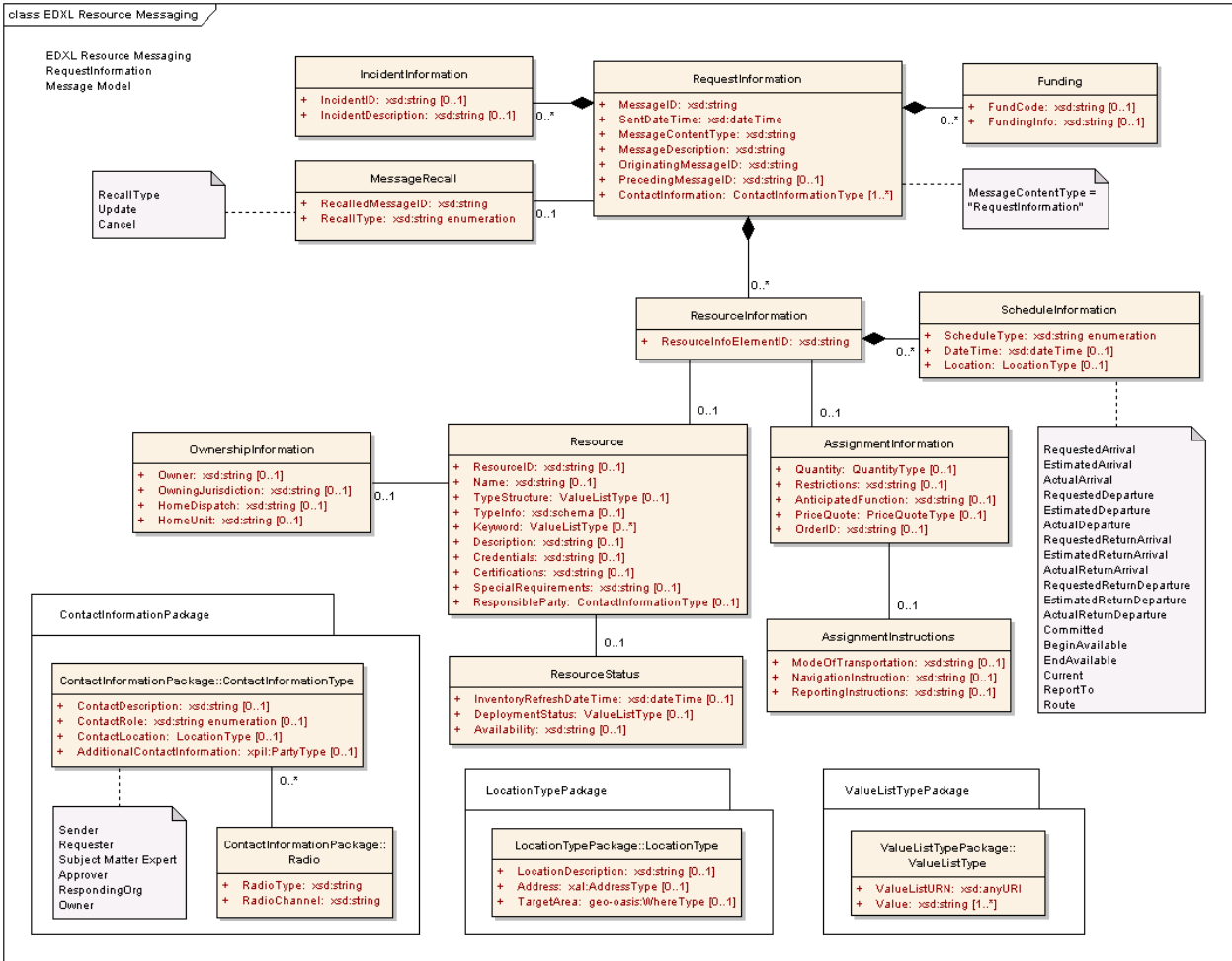


Figure 8: EDXL-RM ERM for RequestInformation Message

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

Table 7: RequestInformation Message Elements

Parent Element	Sub-Elements
RequestInformation	MessageID , SentDateTime , MessageContentType^ , MessageDescription , OriginatingMessageID , PrecedingMessageID, 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> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	ScheduleType^ , <i>DateTime</i> , <i>Location</i>

3.8.3 RequestInformation Message rules

The following rules apply to the above elements:

- The RequestInformation:MessageID, ResourceMessage:SentDateTime, ResourceMessage:MessageContentType, ResourceMessage:MessageDescription, ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements MUST be present.
- The value of RequestInformation:MessageContentType MUST be "RequestInformation".
- If a RequestInformation:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the ResourceMessage:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a RequestInformation:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- If a RequestInformation:ResourceInformation element is present, then the ResourceInformation:ResourceInfoElementID element MUST be present.

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

1240 3.8.4 Message Flow

1241 The RequestInformation message may be sent by the Resource Consumer to any number of Resource
1242 Suppliers, or may it may be sent vice versa. The RequestInformation message may follow earlier
1243 resource messages.

1244 The potential responses to this message include:

- 1245 • ResponseToRequestInformation (See Section 3.9)
- 1246 • ReportResourceDeploymentStatus
- 1247 • This includes Accept, Decline, and Provisional responses.

1248 The message may be canceled or updated through the RequestInformation:MessageRecall element.

1249 3.8.5 Message Example

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

1254

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

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



```

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

```

1313

3.9 ResponseToRequestInformation Message

3.9.1 Overview

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

3.9.2 Element Reference Model

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

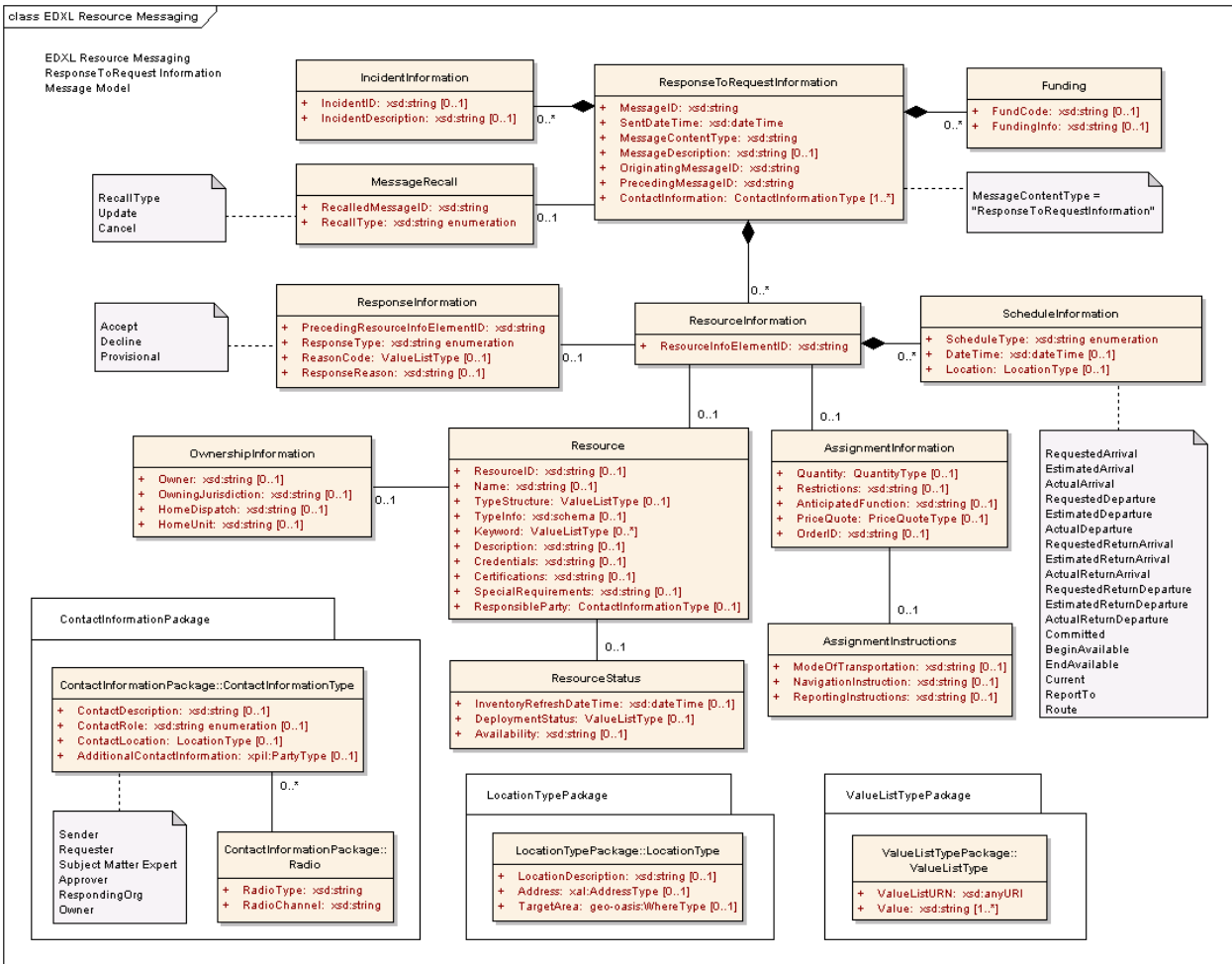


Figure 9: EDXL-RM ERM for ResponseToRequestInformation Message

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

1332

1333

Table 8: ResponseToRequestInformation Message Elements

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

1334

1335 **3.9.3 ResponseToRequestInformation Message Rules**

1336 The following rules apply to the above elements:

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

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

1340 ResponseToRequestInformation:OriginatingMessageID,
 1341 ResponseToRequestInformation:PrecedingMessageID, and
 1342 ResponseToRequestInformation:ContactInformation elements MUST be present.

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

1375

1376 The schema for a ResponseToRequestInformation message can be found in Appendix A.8.

1377 **3.9.4 Message Flow**

1378 The ResponseToRequestInformation message is sent by a Resource Supplier or Resource Consumer in
 1379 response to an original RequestInformation message.

1380 The potential responses to this message include:

- 1381 • RequisitionResource message from the Resource Consumer. (See Section 3.6)

1382 The message may be canceled or updated through the ResponseToRequestInformation:MessageRecall
 1383 element.

1384

3.9.5 Message Example

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

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

```
<?xml version="1.0" encoding="UTF-8"?>
<ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMResponseToRequestInformation.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
  xmlns:gml="http://www.opengis.net/gml">
  <MessageID>urn:au-qld-eoc:12346</MessageID>
  <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
  <MessageContentType>ResponseToRequestInformation</MessageContentType>
  <MessageDescription>
    Team consists of 5 overhead (2 person) crews with material handlers; 1
    overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and fleet
    services support. Each team is additionally equipped with digger derrick/pole
    trailer and auxiliary (material handler or 36' bucket).
  </MessageDescription>
  <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
  <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm:ContactRole>Sender</rm:ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
          <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
        </xnl:PersonName>
        <xnl:OrganisationName>
          <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
        </xnl:OrganisationName>
      </xpil:PartyName>
      <xpil:ContactNumbers>
        <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
          xpil:ContactHours="9:00AM - 5:00PM">
          <xpil:ContactNumberElement
            xpil:Type="CountryCode">61</xpil:ContactNumberElement>
          <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
          <xpil:ContactNumberElement xpil:Type="LocalNumber">
            3000
            1234
          </xpil:ContactNumberElement>
        </xpil:ContactNumber>
      </xpil:ContactNumbers>
      <xpil:ElectronicAddressIdentifiers>
        <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
      </xpil:ElectronicAddressIdentifier>
      </xpil:ElectronicAddressIdentifiers>
    </rm:AdditionalContactInformation>
  </ContactInformation>
</ResponseToRequestInformation>
```

```

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

```

```

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

```

1540

1541

3.10 OfferUnsolicitedResource Message

3.10.1 Overview

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

3.10.2 Element Reference Model

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

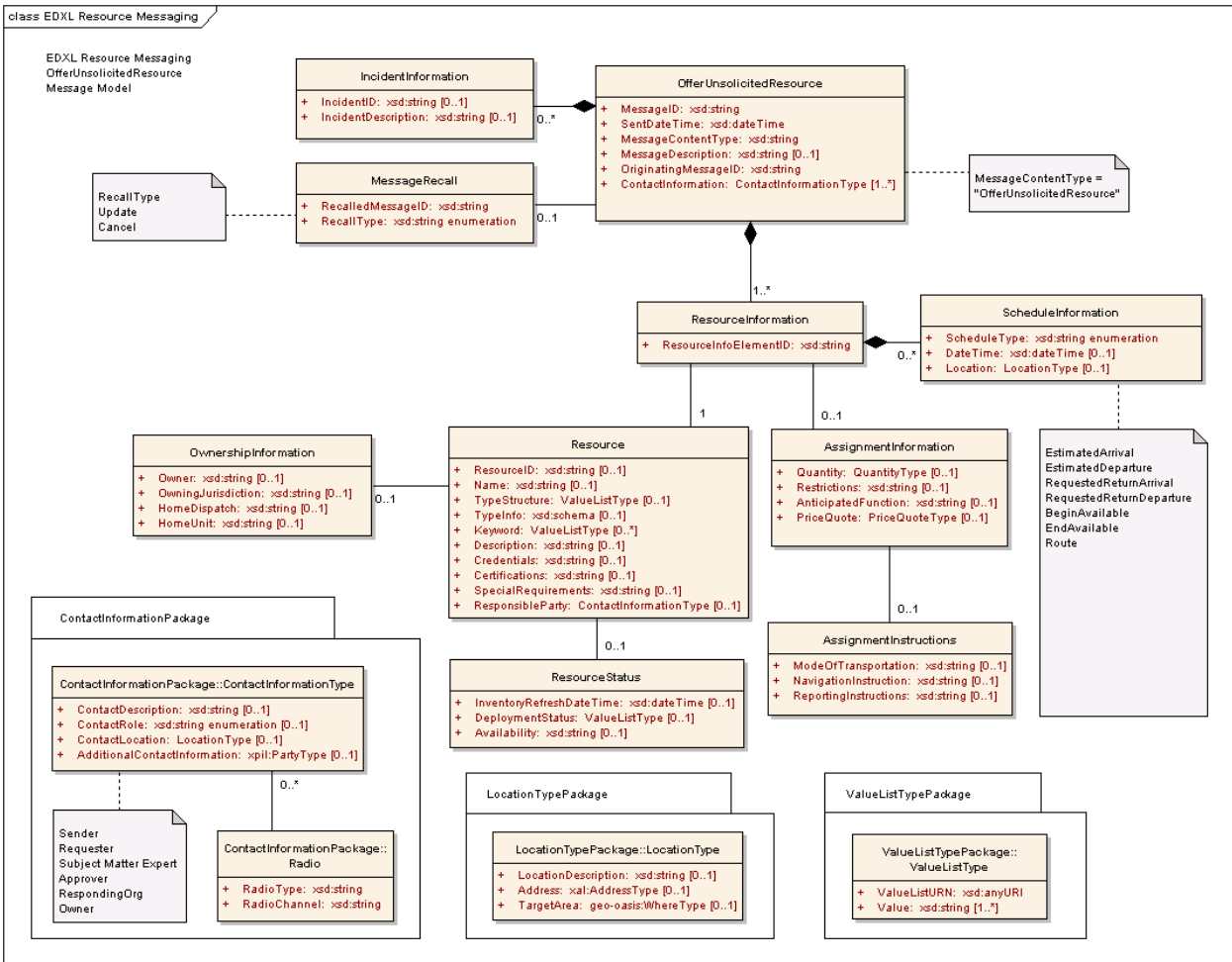


Figure 10: EDXL-RM ERM for OfferUnsolicitedResource Message

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

Table 9: OfferUnsolicitedResource Message Elements

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

3.10.3 OfferUnsolicitedResource Message Rules

The following rules apply to the above elements:

- The OfferUnsolicitedResource:MessageID, OfferUnsolicitedResource:SentDateTime, OfferUnsolicitedResource:MessageContentType, OfferUnsolicitedResource:OriginatingMessageID, OfferUnsolicitedResource:ContactInformation, and OfferUnsolicitedResource:ResourceInformation elements MUST be present.
- The value of OfferUnsolicitedResource:MessageContentType MUST be "OfferUnsolicitedResource".
- If an OfferUnsolicitedResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the OfferUnsolicitedResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- For each OfferUnsolicitedResource:ResourceInformation element, the ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.

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

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

3.10.4 Message Flow

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

The potential responses to this message include:

- RequestInformation (See Section 3.8)
- RequisitionResource (See Section 3.6)

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

3.10.5 Message Example

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

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

```
<?xml version="1.0" encoding="UTF-8"?>
<OfferUnsolicitedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMOfferUnsolicitedResource.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
  <MessageID>urn:au-qld-eoc:84313</MessageID>
  <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
  <MessageContentType>OfferUnsolicitedResource</MessageContentType>
  <MessageDescription>
    We would like to donate 100 small and 100 large tarps for use by residents
    whose homes have been damaged by the cyclone.
  </MessageDescription>
  <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm:ContactRole>Owner</rm:ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
          <xnl:NameElement xnl:ElementType="LastName">Williams</xnl:NameElement>
        </xnl:PersonName>
        <xnl:OrganisationName>
          <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>
        </xnl:OrganisationName>
      </rm:AdditionalContactInformation>
    </rm:ContactInformation>
  </OfferUnsolicitedResource>
```

```

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

```

```

1699         <xal:NameElement>Cairns</xal:NameElement>
1700     </xal:Locality>
1701     <xal:Thoroughfare>
1702         <xal:NameElement>Spence St</xal:NameElement>
1703     </xal:Thoroughfare>
1704     <xal:PostCode>
1705         <xal:Identifier>4870</xal:Identifier>
1706     </xal:PostCode>
1707 </rm:Address>
1708 </Location>
1709 </ScheduleInformation>
1710 </ResourceInformation>
1711 <ResourceInformation>
1712     <ResourceInfoElementID>002</ResourceInfoElementID>
1713     <Resource>
1714         <TypeStructure>
1715             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1716             <rm:Value>Small tarpaulin</rm:Value>
1717         </TypeStructure>
1718         <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1719     </Resource>
1720     <AssignmentInformation>
1721         <Quantity>
1722             <rm:MeasuredQuantity>
1723                 <rm:Amount>100</rm:Amount>
1724             </rm:MeasuredQuantity>
1725         </Quantity>
1726         <AssignmentInstructions>
1727             <rm:ModeOfTransportation>
1728                 We have a truck available to deliver to Innisfail (or other
1729                 preferred location).
1730             </rm:ModeOfTransportation>
1731         </AssignmentInstructions>
1732     </AssignmentInformation>
1733     <ScheduleInformation>
1734         <ScheduleType>BeginAvailable</ScheduleType>
1735         <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1736         <Location>
1737             <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1738             <rm:Address>
1739                 <xal:Country>
1740                     <xal:NameElement>Australia</xal:NameElement>
1741                 </xal:Country>
1742                 <xal:AdministrativeArea>
1743                     <xal:NameElement>QLD</xal:NameElement>
1744                 </xal:AdministrativeArea>
1745                 <xal:Locality>
1746                     <xal:NameElement>Cairns</xal:NameElement>
1747                 </xal:Locality>
1748                 <xal:Thoroughfare>
1749                     <xal:NameElement>Spence St</xal:NameElement>
1750                 </xal:Thoroughfare>
1751                 <xal:PostCode>
1752                     <xal:Identifier>4870</xal:Identifier>
1753                 </xal:PostCode>
1754             </rm:Address>
1755         </Location>
1756     </ScheduleInformation>
1757 </ResourceInformation>
1758 </OfferUnsolicitedResource>

```

1759

3.11 ReleaseResource Message

3.11.1 Overview

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

3.11.2 Element Reference Model

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

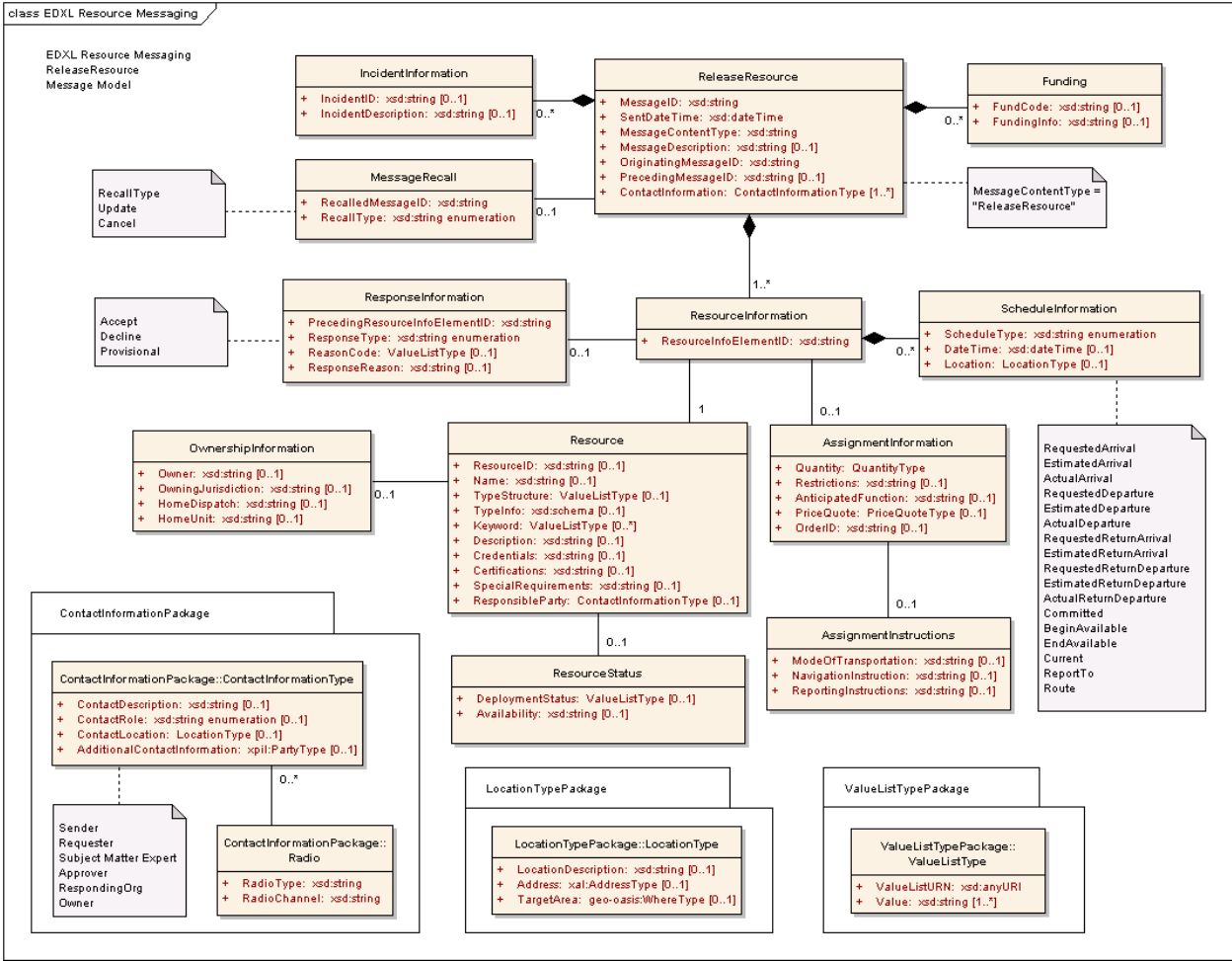


Figure 11: EDXL-RM ERM for ReleaseResource Message

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

Table 11: ReleaseResource Message Elements

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

3.11.3 ReleaseResource Message Rules

The following rules apply to the above elements:

- The ReleaseResource:MessageID, ReleaseResource:SentDateTime, ReleaseResource Message:MessageContentType, ReleaseResource:OriginatingMessageID, ReleaseResource:ContactInformation, and ReleaseResource:ResourceInformation elements MUST be present.
- The value of ReleaseResource:MessageContentType MUST be "ReleaseResource".
- If a ReleaseResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the ReleaseResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a ReleaseResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

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

1817 3.11.4 Message Flow

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

1821 The potential responses to this message include:

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

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

1828 3.11.5 Message Example

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

1831

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

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

```

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

```



```

1905     </xal:Country>
1906     <xal:AdministrativeArea>
1907         <xal:NameElement>QLD</xal:NameElement>
1908     </xal:AdministrativeArea>
1909     <xal:Locality>
1910         <xal:NameElement>Innisfail</xal:NameElement>
1911     </xal:Locality>
1912     <xal:Thoroughfare>
1913         <xal:NameElement>Downing St</xal:NameElement>
1914         <xal:Number>27</xal:Number>
1915     </xal:Thoroughfare>
1916     <xal:PostCode>
1917         <xal:Identifier>4860</xal:Identifier>
1918     </xal:PostCode>
1919 </rm:Address>
1920 </Location>
1921 </ScheduleInformation>
1922 <ScheduleInformation>
1923     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1924     <DateTime>2006-03-29T19:05:00+10:00</DateTime>
1925     <Location>
1926         <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1927     </Location>
1928 </ScheduleInformation>
1929 <ScheduleInformation>
1930     <ScheduleType>EstimatedReturnArrival</ScheduleType>
1931     <DateTime>2006-03-29T19:55:00+10:00</DateTime>
1932     <Location>
1933         <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1934     </Location>
1935 </ScheduleInformation>
1936 </ResourceInformation>
1937 </ReleaseResource>

```

1938

3.12 RequestReturn Message

3.12.1 Overview

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

3.12.2 Element Reference Model

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

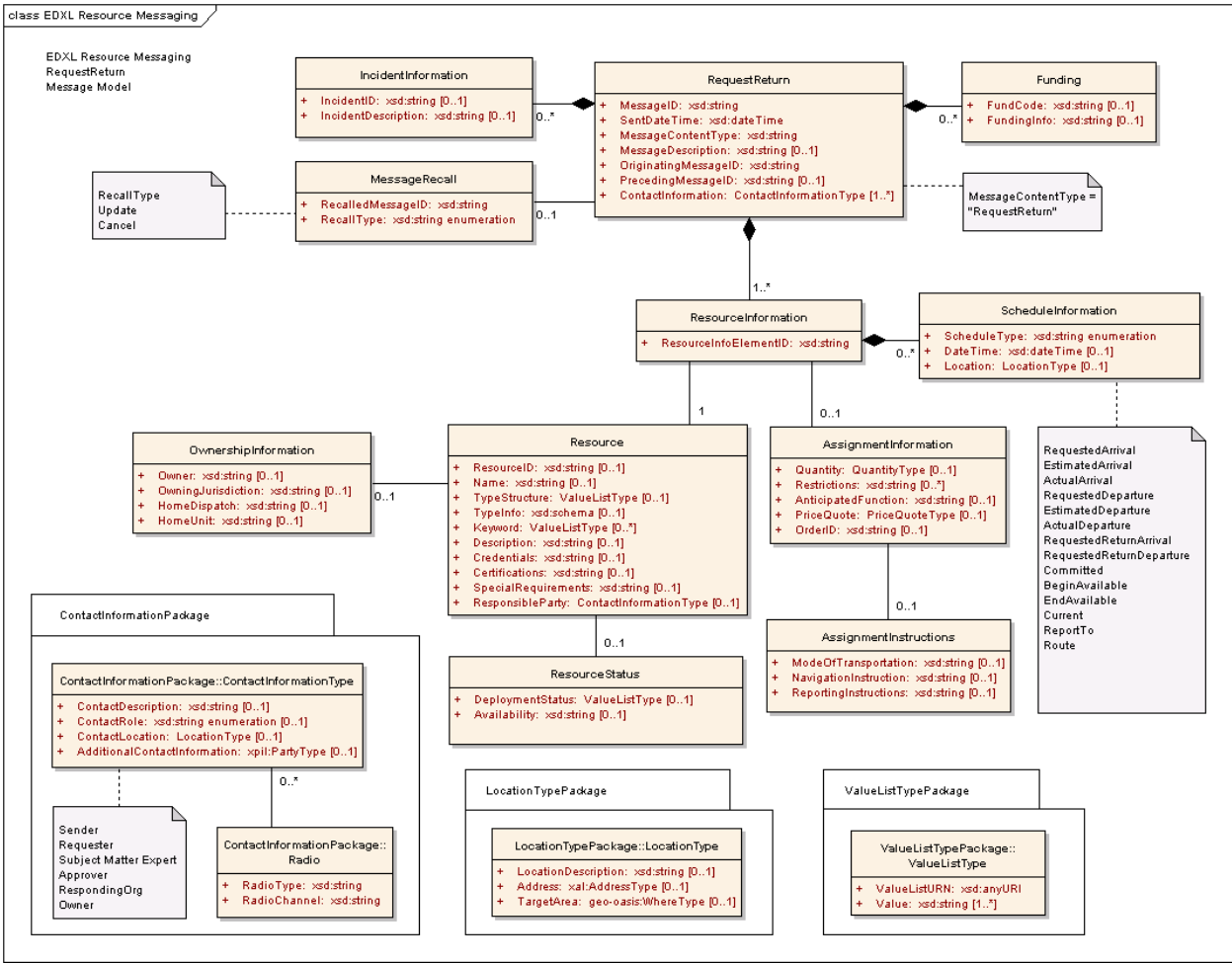


Figure 12: EDXL-RM ERM for RequestReturn Message

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

Table 12: RequestReturn Message Elements

Parent Element	Sub-Elements
RequestReturn	MessageID , SentDateTime , MessageContentType [^] , MessageDescription, OriginatingMessageID , PrecedingMessageID, 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> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	ScheduleType [^] , <i>DateTime</i> , <i>Location</i>

3.12.3 RequestReturn Message Rules

The following rules apply to the above elements:

- The RequestReturn:MessageID, ResourceMessage:SentDateTime, RequestReturn:MessageContentType, RequestReturn:OriginatingMessageID, RequestReturn:ContactInformation, and RequestReturn:ResourceInformation elements MUST be present.
- The value of RequestReturn:MessageContentType MUST be "RequestReturn".
- If a RequestReturn:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the RequestReturn:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a RequestReturn:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present for each ResourceInformation:Resource element present.

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

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

3.12.4 Message Flow

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

The potential responses to this message include:

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

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

3.12.5 Message Example

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

- Small Animal Sheltering Team (ResourceInfoElementID=001).

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

```
<?xml version="1.0" encoding="UTF-8"?>
<RequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequestReturn.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
  <MessageID>urn:au-qlt-eoc:997821</MessageID>
  <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
  <MessageContentType>RequestReturn</MessageContentType>
  <OriginatingMessageID>urn:au-qlt-eoc:12332</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm:ContactRole>Sender</rm:ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
          <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
        </xnl:PersonName>
        <xnl:OrganisationName>
          <xnl:NameElement>EMA</xnl:NameElement>
        </xnl:OrganisationName>
      </rm:AdditionalContactInformation>
    </rm:ContactInformation>
  </RequestReturn>
```

```

2025     </xnl:OrganisationName>
2026     </xpil:PartyName>
2027     </rm:AdditionalContactInformation>
2028 </ContactInformation>
2029 <ResourceInformation>
2030     <ResourceInfoElementID>001</ResourceInfoElementID>
2031     <Resource>
2032         <TypeStructure>
2033             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2034             <rm:Value>Small Animal Sheltering Team</rm:Value>
2035         </TypeStructure>
2036     </Resource>
2037     <AssignmentInformation>
2038         <Quantity>
2039             <rm:MeasuredQuantity>
2040                 <rm:Amount>1</rm:Amount>
2041             </rm:MeasuredQuantity>
2042         </Quantity>
2043     </AssignmentInformation>
2044     <ScheduleInformation>
2045         <ScheduleType>RequestedReturnArrival</ScheduleType>
2046         <DateTime>2006-03-29T20:00:00+10:00</DateTime>
2047         <Location>
2048             <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2049         </Location>
2050     </ScheduleInformation>
2051 </ResourceInformation>
2052 </RequestReturn>

```

2053

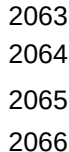
2054

2055

2056
2057
2058

2059

2060
2061
2062



2064
2065
2066

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

Table 13: ResponseToRequestReturn Message Elements

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

3.13.3 ResponseToRequestReturn Message Rules

The following rules apply to the above elements:

- The ResponseToRequestReturn:MessageID, ResponseToRequestReturn:SentDateTime, ResponseToRequestReturn:MessageContentType, ResponseToRequestReturn:OriginatingMessageID, ResponseToRequestReturn:PrecedingMessageID, ResponseToRequestReturn:ContactInformation, and ResponseToRequestReturn:ResourceInformation elements MUST be present.
- The value of ResponseToRequestReturn:MessageContentType MUST be "ResponseToRequestReturn".
- If a ResponseToRequestReturn:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the ResponseToRequestReturn:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

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

2112

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

2114 3.13.4 Message Flow

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

2117 The potential responses to this message include:

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

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

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

2125

2126 3.13.5 Message Example

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

2131

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

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

2172

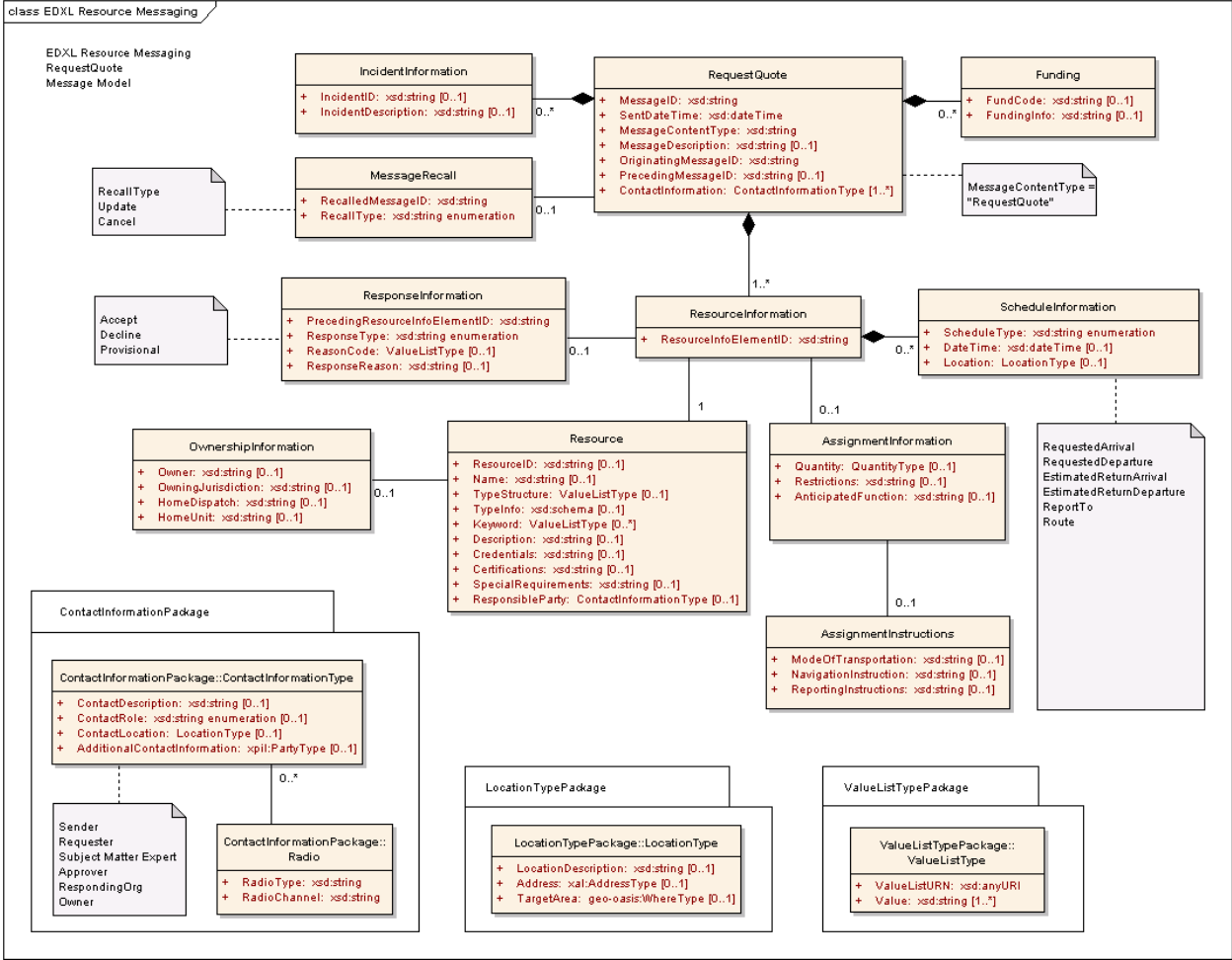
2173 **3.14 RequestQuote Message**

2174 **3.14.1 Overview**

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

2177 **3.14.2 Element Reference Model**

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



2180
2181 *Figure 14: EDXL-RM ERM for RequestQuote Message*
2182
2183

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

2185

2186 *Table 14: RequestQuote Message Elements*

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

2187

2188 3.14.3 RequestQuote Message Rules

2189 The following rules apply to the above elements:

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

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

2220

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

2222 3.14.4 Message Flow

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

2225 The potential responses to this message include:

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

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

2229

2230 3.14.5 Message Example

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

2233

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

```

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

```

```

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

```

```

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

```

2375

3.15 ResponseToRequestQuote Message

3.15.1 Overview

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

3.15.2 Element Reference Model

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

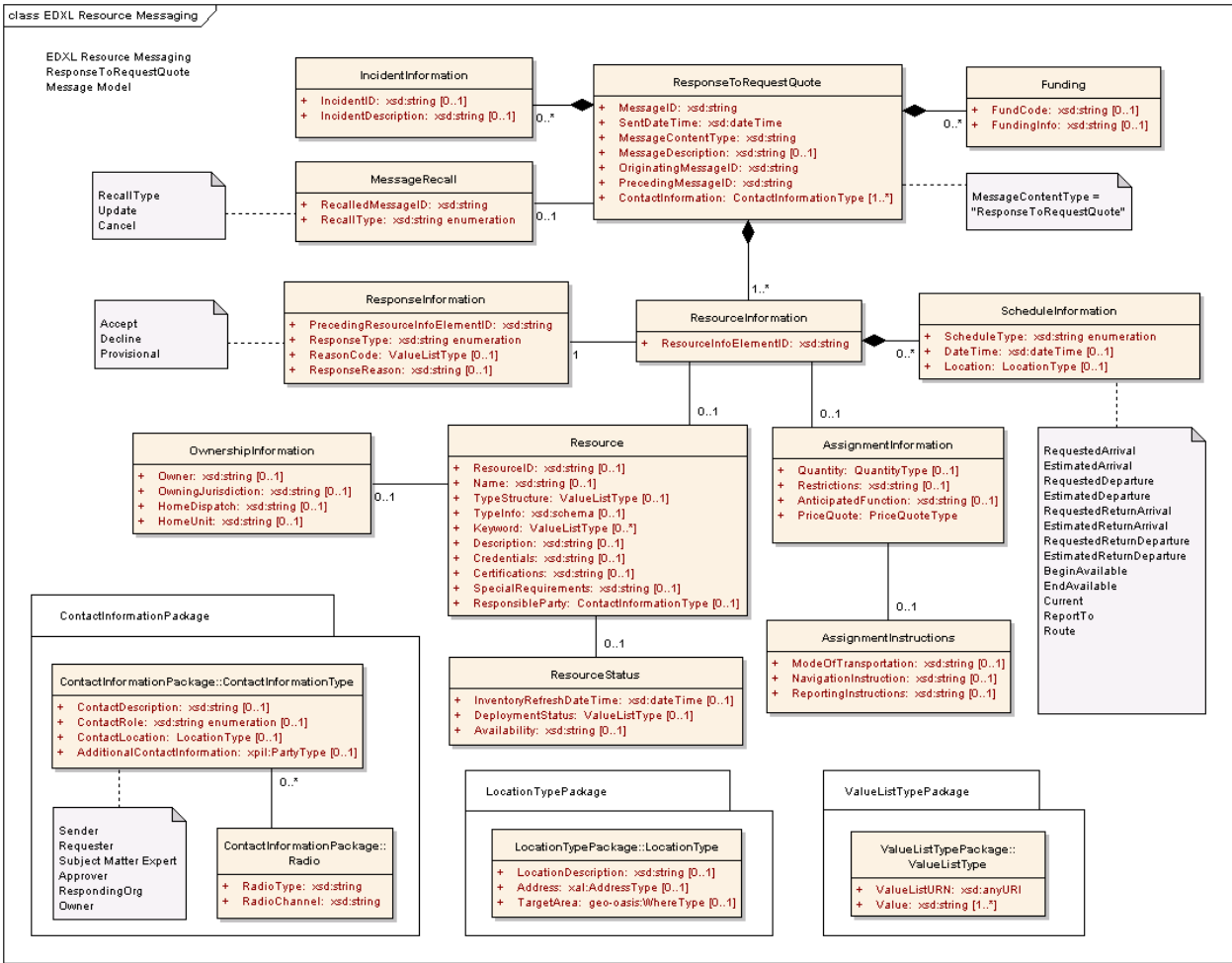


Figure 15: EDXL-RM ERM for ResponseToRequestQuote Message

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

2391

2392 *Table 15: ResponseToRequestQuote Message Elements*

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

2393

2394 3.15.3 ResponseToRequestQuote Message Rules

2395 The following rules apply to the above elements:

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

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

2435 3.15.4 Message Flow

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

2444 3.15.5 Message Example

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

2449
2450 [Note: The XML example shown in this section is informative only.]

```
2451 <?xml version="1.0" encoding="UTF-8"?>
2452 <ResponseToRequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2453     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```

```

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

```

```

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

```

2573

3.16 RequestResourceDeploymentStatus Message

3.16.1 Overview

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

3.16.2 Element Reference Model

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

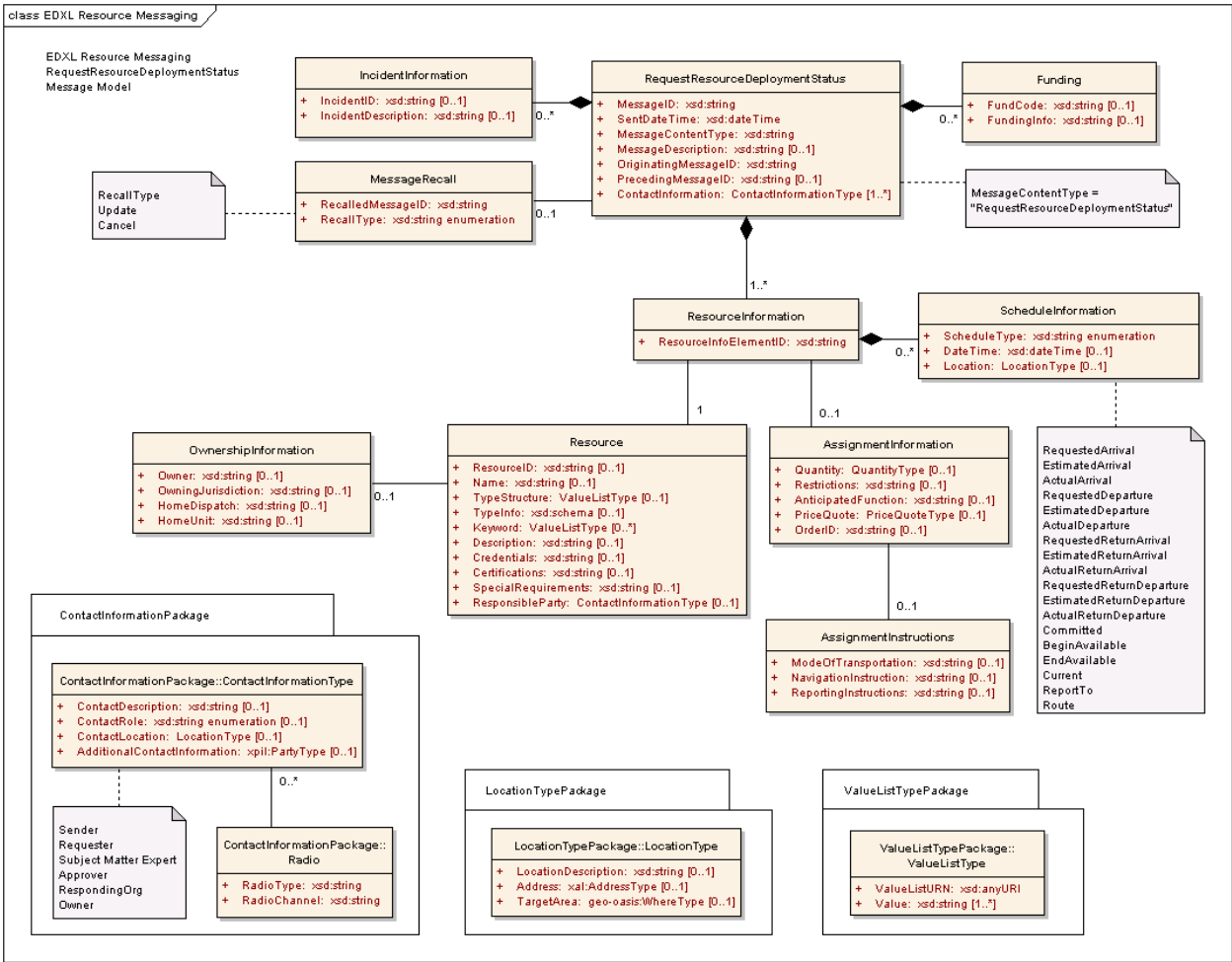


Figure 16: EDXL-RM ERM for RequestResourceDeploymentStatus Message

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

Table 16: RequestResourceDeploymentStatus Message Elements

Parent Element	Sub-Elements
RequestResourceDeploymentStatus	MessageID , SentDateTime , MessageContentType [^] , MessageDescription , OriginatingMessageID , PrecedingMessageID , 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> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	ScheduleType [^] , <i>DateTime</i> , <i>Location</i>

3.16.3 RequestResourceDeploymentStatus Message Rules

The following rules apply to the above elements:

- The RequestResourceDeploymentStatus:MessageID, RequestResourceDeploymentStatus:SentDateTime, RequestResourceDeploymentStatus:MessageContentType, RequestResourceDeploymentStatus:OriginatingMessageID, RequestResourceDeploymentStatus:ContactInformation, and RequestResourceDeploymentStatus:ResourceInformation elements MUST be present.
- The value of RequestResourceDeploymentStatus:MessageContentType MUST be "RequestResourceDeploymentStatus".
- If a RequestResourceDeploymentStatus:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the RequestResourceDeploymentStatus:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a RequestResourceDeploymentStatus:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.

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

2626 3.16.4 Message Flow

2627 The RequestResourceDeploymentStatus message can be sent from the Resource Supplier to the
2628 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2629 resource is requisitioned or committed.

2630 The potential responses to this message include:

- 2631 • ReportResourceDeploymentStatus (See Section 3.17)
- 2632 • This may include Accept, Decline, and Provisional responses.

2633 The message may be canceled or updated through the
2634 RequestResourceDeploymentStatus:MessageRecall element.

2635

2636 3.16.5 Message Example

2637 Below is an example RequestResourceDeploymentStatus message. This message requests the
2638 deployment status of the "Small Animal Sheltering Team"; it follows on from the example
2639 CommitResource message in Section 3.7.5, and precedes the ReleaseResource message in Section
2640 3.11.5 .

2641

2642 [Note: The XML example shown in this section is informative only.]

```

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

```

```

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

```

2705

3.17 ReportResourceDeploymentStatus Message

3.17.1 Overview

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

3.17.2 Element Reference Model

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

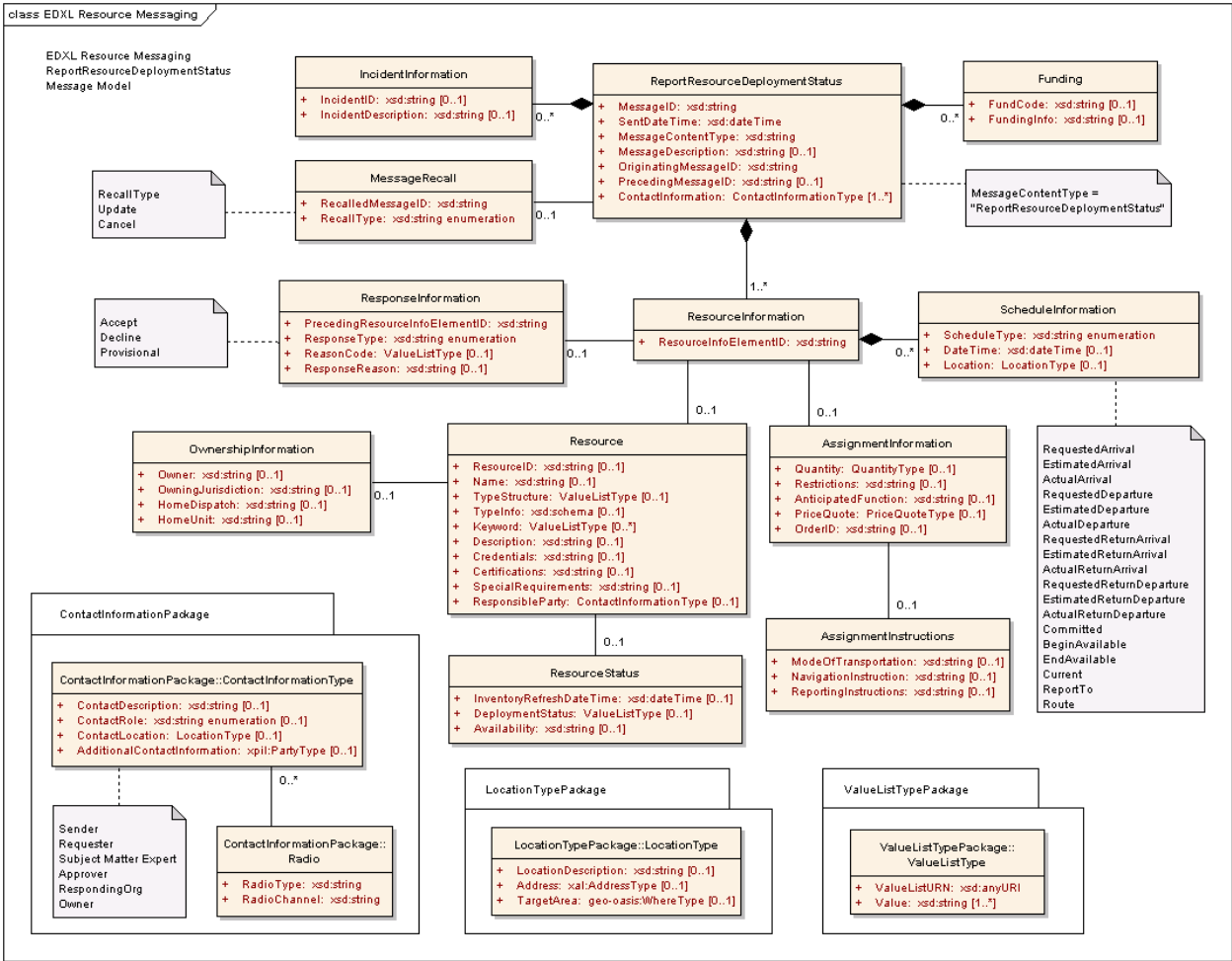


Figure 17: EDXL-RM ERM for ReportResourceDeploymentStatus Message

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

2720

2721 *Table 17: ReportResourceDeploymentStatus Message Elements*

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

2722

2723 3.17.3 ReportResourceDeploymentStatus Message Rules

2724 The following rules apply to the above elements:

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

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

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

2763 3.17.4 Message Flow

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

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

2770 3.17.5 Message Example

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

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

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

```

2787 <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>
2788 <IncidentInformation>
2789   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2790 </IncidentInformation>
2791 <ContactInformation>
2792   <rm:ContactRole>Sender</rm:ContactRole>
2793   <rm:AdditionalContactInformation>
2794     <xpil:PartyName>
2795       <xn1:PersonName>
2796         <xn1:NameElement xn1:ElementType="FirstName">Charlotte</xn1:NameElement>
2797         <xn1:NameElement xn1:ElementType="LastName">Ryan</xn1:NameElement>
2798       </xn1:PersonName>
2799       <xn1:OrganisationName>
2800         <xn1:NameElement>EMA</xn1:NameElement>
2801       </xn1:OrganisationName>
2802     </xpil:PartyName>
2803   </rm:AdditionalContactInformation>
2804 </ContactInformation>
2805 <ContactInformation>
2806   <rm:ContactRole>Requester</rm:ContactRole>
2807   <rm:AdditionalContactInformation>
2808     <xpil:PartyName>
2809       <xn1:PersonName>
2810         <xn1:NameElement xn1:ElementType="FirstName">Alex</xn1:NameElement>
2811         <xn1:NameElement xn1:ElementType="LastName">Jones</xn1:NameElement>
2812       </xn1:PersonName>
2813       <xn1:OrganisationName>
2814         <xn1:NameElement>Dept of Emergency Services</xn1:NameElement>
2815       </xn1:OrganisationName>
2816     </xpil:PartyName>
2817   </rm:AdditionalContactInformation>
2818 </ContactInformation>
2819 <ResourceInformation>
2820   <ResourceInfoElementID>001</ResourceInfoElementID>
2821   <ResponseInformation>
2822     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2823     <rm:ResponseType>Accept</rm:ResponseType>
2824   </ResponseInformation>
2825   <Resource>
2826     <TypeStructure>
2827       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2828       <rm:Value>Small Animal Sheltering Team</rm:Value>
2829     </TypeStructure>
2830     <ResourceStatus>
2831       <DeploymentStatus>
2832         <rm:ValueListURN>urn:x-hazard:vocab:deploymentStatusTypes</rm:ValueListURN>
2833         <rm:Value>In Transit</rm:Value>
2834       </DeploymentStatus>
2835     </ResourceStatus>
2836   </Resource>
2837   <AssignmentInformation>
2838     <Quantity>
2839       <rm:MeasuredQuantity>
2840         <rm:Amount>1</rm:Amount>
2841       </rm:MeasuredQuantity>
2842     </Quantity>
2843   </AssignmentInformation>
2844   <ScheduleInformation>
2845     <ScheduleType>ActualDeparture</ScheduleType>
2846     <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2847     <Location>
2848       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2849     </Location>
2850   </ScheduleInformation>
2851   <ScheduleInformation>
2852     <ScheduleType>ActualArrival</ScheduleType>
2853     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2854     <Location>
2855       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2856     </Location>

```

```
2857     </ScheduleInformation>
2858     <ScheduleInformation>
2859         <ScheduleType>EstimatedArrival</ScheduleType>
2860         <DateTime>2006-03-25T09:40:00+10:00</DateTime>
2861         <Location>
2862             <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2863         </Location>
2864     </ScheduleInformation>
2865 </ResourceInformation>
2866 </ReportResourceDeploymentStatus>
```

2867

3.18 RequestExtendedDeploymentDuration

3.18.1 Overview

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

3.18.2 Element Reference Model

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

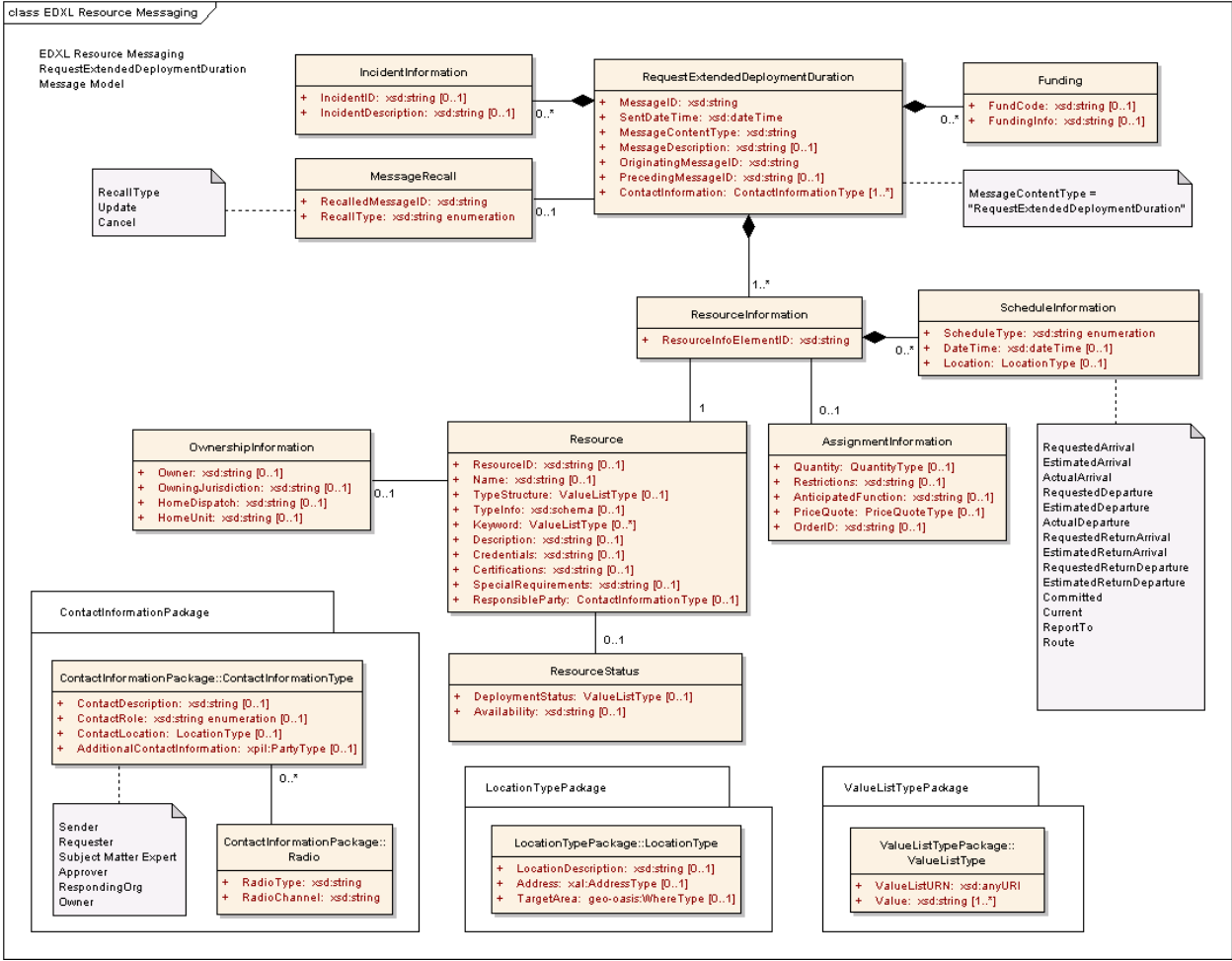


Figure 18: EDXL-RM ERM for RequestExtendedDeploymentDuration Message

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

2882

2883 *Table 18: RequestExtendedDeploymentDuration Message Elements*

Parent Element	Sub-Elements
RequestExtendedDeploymentDuration	MessageID , SentDateTime , MessageContentType^ , MessageDescription , OriginatingMessageID , PrecedingMessageID , IncidentInformation* , MessageRecall , Funding* , ContactInformation* , ResourceInformation*
IncidentInformation	<i>IncidentID</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> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restriction</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i>
ScheduleInformation	ScheduleType^ , <i>DateTime</i> , <i>Location</i>

2884

2885 3.18.3 RequestExtendedDeploymentDuration Message Rules

2886 The following rules apply to the above elements:

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

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

2919 3.18.4 Message Flow

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

2928 3.18.5 Message Example

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

```

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

```

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

```

2988

2989

3.19 ResponseToRequestExtendedDeploymentDuration Message

3.19.1 Overview

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

3.19.2 Element Reference Model

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

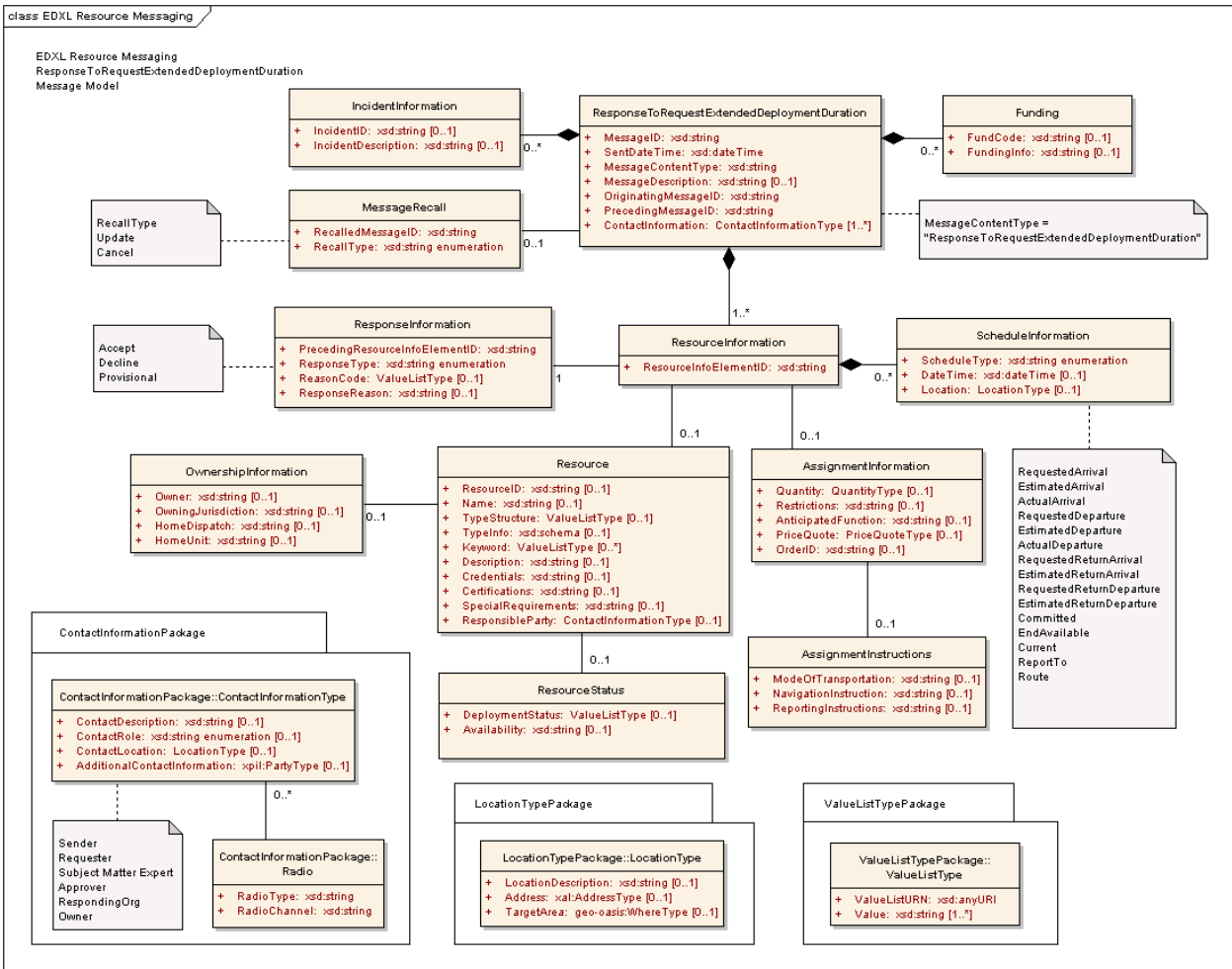


Figure 19: EDXL-RM ERM for ResponseToRequestExtendedDeploymentDuration Message

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

3004

3005 *Table 19: Response to RequestExtendedDeploymentDuration Message Elements*

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

3006

3007 3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules

3008 The following rules apply to the above elements:

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

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

3050
3051 The schema for a ResponseToRequestExtendedDeploymentDuration message can be found in Appendix
3052 A.18.

3053 **3.19.4 Message Flow**

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

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

3058

3059 **3.19.5 Message Example**

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

3063

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

```

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

```

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

3142

4 Data Dictionary (NORMATIVE)

3143

4.1.1 EDXLResourceMessage ElementReferenceType Type

Element	MessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	Each EDXL resource message contains an identifier that uniquely identifies the resource message.
Comments	The EDXL Distribution Element contains the "Distribution ID", which identifies the "container" for the distribution message information.
Requirements Supported	20

3144

Element	SentDateTime
Type	DateTimeType [xsd:dateTime]
Usage	REQUIRED , MUST be used once and only once
Definition	The system stamped date and time the resource message was sent. (1) The date and time is represented in [dateTime] format (e. g., "2002-05-24T16:49:00-07:00" for 24 May 2002 at 16: 49 PDT). (2) Alphabetic time zone designators such as "Z" MUST NOT be used. The time zone for UTC MUST be represented as "-00:00" or "+00:00.
Comments	Original requirement = ICS "Request Date/Time"
Requirements Supported	21

3145

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

Definition	Specifies the purpose / type of resource content / payload being sent within the Resource Messaging – Element Reference Model
Constraints	- Value MUST be one of the following: 1. RequestResource 2. ResponseToRequestResource 3. RequisitionResource 4. CommitResource 5. RequestInformation 6. ResponseToRequestInformation 7. OfferUnsolicitedResource 8. ReleaseResource 9. RequestReturn 10. ResponseToRequestReturn 11. RequestQuote 12. ResponseToRequestQuote 13. RequestResourceDeploymentStatus 14. ReportResourceDeploymentStatus 15. RequestExtendedDeploymentDuration 16. ResponseToRequestExtendedDeploymentDuration
Requirements Supported	2,3,4,5,6,7,8,9,10,11,12,17

3146

Element	MessageDescription
Type	MessageDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Text field used to specify the information requested in a request for information and the response to a request for information. May also be used to include additional information in other message types.
Constraints	- Conditional Usage: - o Required: ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestInformation" - o Optional: ▪ Otherwise
Requirements	20

Supported	
-----------	--

3147

Element	OriginatingMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	Each EDXL resource message contains a MessageID that uniquely identifies the resource message. OriginatingMessageID identifies the MessageID of the first message in a message sequence to which the message belongs. If the message is itself the originating message in a new sequence, OriginatingMessageID will have the same value as the MessageID element. In some other cases, the OriginatingMessageID element will have the same value as the PrecedingMessageID element. The OriginatingMessageID value essentially forms a unique identifier for a group of related messages, linking them together so that the relationship between the messages is made explicit and unambiguous (and threads of messages can be tracked by resource management software).
Comments	This MessageID is an EDXL-RM MessageID, not an EDXL-Distribution Element MessageID.
Requirements Supported	20

3148

Element	PrecedingMessageID
Type	MessageIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	The PrecedingMessageID identifies the message that immediately preceded the current message in the message sequence. This MessageID is an EDXL-RM MessageID not and EDXL-Distribution Element MessageID.
Constraints	- Conditional Usage: - Required: <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn"

	▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" o Optional: ▪ <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" o Not Applicable: ▪ Otherwise
--	---

3149

Element	ContactInformation
Type	ContactInformationType [XML structure]
Usage	REQUIRED , MUST be used at least once
Definition	The contact associated with the resource message.
Comments	• Refer to Section 4.1.13.1 for ContactInformationType • There may be more than one contact given – message sender, requester, subject matter expert, approver, owner, etc.

3150 4.1.2 IncidentInformation Element

Element	IncidentID
Type	IncidentIDType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	The name or other identifier of the incident to which the current message refers.
Constraints	• If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription

	MUST be present
Requirements Supported	19

3151

Element	IncidentDescription
Type	IncidentDescriptionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A free form description of the incident to which the current message refers.
Constraints	If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present
Requirements Supported	19

3152 4.1.3 MessageRecall Element

Element	RecalledMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , MUST be used once and only once.
Definition	The identifier of the previously sent message that is to be recalled. MessageRecall is used to replace a previously sent message by updating or canceling it.
Comments	The MessageRecall element is Optional.
Requirements Supported	14, 15

3153

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

	updated or cancelled.
Constraints	- Value MUST be one of the following: - Update - Cancel
Comments	The MessageRecall element is Optional.
Requirements Supported	14,15

3154 4.1.4 Funding Element

Element	FundCode
Type	FundCodeType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Identifies the funds that will pay for the resource
Constraints	- 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	- Identified in support of NIMS Resource Management Guide NIC-GDL0004 - This field may be used as a comma separated list of fund codes (e.g. "HP4347,RT45S")
Requirements Supported	18, 24

3155

Element	FundingInfo
Type	FundingInfoType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Provides additional information on the funds that will pay for the resource
Constraints	- A textual description of funding sources or distribution - The Funding element MUST be present in a Requisition Resource message. - If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present

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

3156 4.1.5 ResourceInformation Element

Element	ResourceInfoElementID
Type	ResourceInfoElementIDType[xsd:string]
Usage	REQUIRED , MUST be used once and only once.
Definition	This element identifies the instance of ResourceInformation within the message. It does not identify the Resource.
Comments	- The purpose of this element is to uniquely identify the ResourceInformation element in future messages that refer to this message. - The Resource is identified by a combination of one or more of ResourceID, Name and/or ResourceTypeStructure.

3157 4.1.6 ResponseInformation Element

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

3158

Element	ResponseType
Type	ResponseTypeType [xsd:string enumeration]
Usage	REQUIRED , MUST be used once and only once
Definition	Used to accept, decline, or provisionally accept a Request or Unsolicited Offer.
Constraints	- Value MUST be one of the following: - Accept - Decline - Provisional
Comments	The "ResponseReason" element is associated with a "Provisional" or

	"Decline" value.
Requirements Supported	6,29

3159

Element	ReasonCode
Type	ValueListType[XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Code from a managed list that offers an explanation for a declined or provisional response to a Request or Unsolicited Offer.
Constraints	If the ResponseInformation:ResponseType element has a value of "Provisional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
Requirements Supported	6,29

3160

Element	ResponseReason
Type	ResponseReasonType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Explanation for a declined or provisional response to a Request, Response, Unsolicited Offer, or a Request Return.
Constraints	If the ResponseInformation:ResponseType element has a value of "Provisional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation: ResponseReason elements MUST be present.
Requirements Supported	6,29

3161 4.1.7 Resource Element

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

Definition	This identifier (if available) is used to identify and track a resource.
Constraints	At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.
Requirements Supported	3,16,26

3162

Element	Name
Type	ResourceNameType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A name or title of the resource used for identification and tracking.
Constraints	At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.
Requirements Supported	3,16,18,26

3163

Element	TypeStructure
Type	ValueListType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Uniform Resource Name (URN) paired with a string “keyword” value such as <pre><TypeStructure> <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN> <rm:Value>Debris Management Team</rm:Value> </TypeStructure></pre> for a certified list of resources maintained by the Community of Interest (for the value referenced.)
Constraints	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	Refer to Section 4.1.13.3 for ValueListType
Requirements Supported	3,16,25, 26

3164

Element	TypeInfo
Type	TypeInfoType [sequence of xsd:any]
Usage	OPTIONAL , MAY be used once and only once
Definition	The resource type as defined by either a Keyword structure or a valid schema.
Comments	This element contains one or more child elements whose names and types depend on the value of the TypeStructure element.
Requirements Supported	3,16,25,26

3165

Element	Keyword
Type	ValueListType [XML structure]
Usage	OPTIONAL , MAY be used one or more times
Definition	Any value from a discrete managed list, used to specify a keyword.
Comments	- Allows reference to a separate schema for enumerations. Example: ValueListURN= "http://www.dhs.gov/NiemEquipmentResources" and Value="Portable Radio", or ValueListURN= "http://www.eic.org/Package" and Value="DMAT – burn" - A Type Structure is assumed to have an enumerated, allowed list. - A Keyword is not restricted to a particular enumeration, a Keyword can be any word or string.
Requirements Supported	3,16,25,26

3166

Element	Description
Type	DescriptionType [xsd:string]

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

3167

Element	Credentials
Type	CredentialsType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Statements of resource qualifications showing that a person or role has a right to exercise official power
Comments	Multiple credentials may be included as a comma-separated list. Example 1: "Splinting, bandaging, oxygen administration" Example 2: "A practitioner credentialed by a State to function as an EMT by a State Emergency Medical Services (EMS) system."

3168

Element	Certifications
Type	CertificationsType [xsd:string]
Usage	OPTIONAL , MAY be used once and only once
Definition	Statements of recognition that a resource has met special requirements or qualifications within a field
Comments	Multiple certifications may be included as a comma-separated list. Example 1: "ALS; Advanced First Aid & CPR, BLS; Advanced First Aid & CPR" Example 2: "Pilot – Commercial (instrument) or higher certificate and complete unit certification program", "Pilot – Private Pilot (instrument) or higher certificate and complete unit certification program" Example 3: "Trained to the HazMat First Responder Operational Level (NFPA 472); Comply with organization; Operations Level for support personnel as outlined in NFPA 1670"

3169

Element	SpecialRequirements
Type	SpecialRequirementsType [xsd:string]

Usage	OPTIONAL , MAY be used once and only once
Definition	A description of any special needs related to the requested resource (e.g. must carry protective equipment)
Comments	Not intended to carry certifications or capabilities.
Requirements Supported	3,7,16,27

3170

Element	ResponsibleParty
Type	ContactInformationType [XML Structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Contact Info for person currently responsible for resource
Comments	- Conditional Usage: - Not Applicable: <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" - Optional, otherwise
Requirements Supported	3,7,16,27

3171 4.1.8 OwnershipInformation Element

Element	Owner
Type	OwnerType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	The name of an agency or supplier that owns the resource (which may not be the home unit or dispatch). Also referred to as home agency.
Constraints	At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.
Requirements	3,16,18

Supported	
-----------	--

3172

Element	OwningJurisdiction
Type	OwningJurisdictionType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	A geopolitical area in which an organization, person, or object has a specific range of authority for specified resources.
Constraints	At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.
Comments	Can be a code
Requirements Supported	3, 16, 18

3173

Element	HomeDispatch
Type	HomeDispatchType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Resource home agency dispatch center name. This identifies the dispatch unit that has primary responsibility for maintaining information on the resource (e.g., Ft. Collins Dispatch Center, Rocky Mountain Area Coordination Center).
Comments	- Conditional Usage: - Not Applicable: <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" - Optional, otherwise
Requirements Supported	18

3174

Element	HomeUnit
Type	HomeUnitType [xsd:string]

Usage	CONDITIONAL , MAY be used once and only once
Definition	The unit (office, district, organization, etc.) from which the resource typically works or is used (e.g., Manti-LaSalle National Forest/Sanpete District). When released from an assignment, the location to which the resource is released will usually be determined by the home unit.
Comments	▪ Conditional Usage: - o Not Applicable: ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestResource" - o Optional, otherwise
Requirements Supported	18

3175 4.1.9 ResourceStatus Element

Element	InventoryRefreshDateTime
Type	DateTimeType[xsd:dateTime]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Date and time that resource inventory counts were last updated
Comments	▪ Conditional Usage: - o Optional: ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "CommitResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ReportResourceDeploymentStatus" - o Not Applicable, otherwise
Requirements Supported	2,12

3176

Element	DeploymentStatus
Type	ValueListType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Any value from a discrete managed list, used to specify the general state of a resource if known.
Comments	▪ Conditional Usage: - o Required ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestReturn" - o Optional: ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "CommitResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ReleaseResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestReturn" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestExtendedDeploymentDuration" - o Not Applicable, otherwise • Allows reference to a separate schema for enumerations. Example: ValueListURN="http://www.dhs.gov/NIMSResourceStatus" and Value="Available". Example values include: - o atBase-Available - o enroute-Unavailable - o on-scene-Unavailable - o returning-Unavailable - o Resource Maintenance - o Out of Service

	- o Depleted - o Available - o Committed - o In Transit - o At incident (ROSS) - o Assigned - o In Camp - o Reassignment - o Return Transit - o Returned - o Demobilized
Requirements Supported	18

3177

Element	Availability
Type	AvailabilityType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Text to describe availability and limitations on availability. Resource availability refers to resource that it is present or ready for immediate use, or otherwise accessible or obtainable, or is qualified or willing to do something or to assume a responsibility.
Comments	▪ Conditional Usage: - o Required ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestReturn" - o Optional: ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ReleaseResource" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestReturn" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestQuote"

	▪ <i>EDXLResourceMessage</i>:MessageContentType = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage</i>:MessageContentType = "ResponseToRequestExtendedDeploymentDuration" o Not Applicable, otherwise
Requirements Supported	3,16

3178

3179 4.1.10 AssignmentInformation Element

Element	Quantity
Type	QuantityType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Description of amount of resource needed in both quantity and units of measure (if applicable).
Comments	• This element carries quantity information expressed in one of two ways: - o informally, as one or more lines of text (the QuantityText element); or - o formally, as an element (the MeasuredQuantity element) containing an amount (required) and a unit of measure (optional). 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). 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. 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. 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): 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
Constraints	• Value MUST be non-negative. • Conditional Usage:

	- o Required ▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Accept" ▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Conditional" ▪ EDXLResourceMessage:MessageContentType = "RequisitionResource" ▪ EDXLResourceMessage:MessageContentType = "CommitResource" ▪ EDXLResourceMessage:MessageContentType = "ReleaseResource" - o Optional, otherwise.
Requirements Supported	3,16,18,26

3180

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

3181

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

3182

Element	PriceQuote
----------------	------------

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	- This element carries price information expressed in one of two ways: - 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). 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). The use of the first alternative (the QuantityText element) is not recommended when the second alternative (the MeasuredQuantity element) can be used. 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. 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]: urn:oasis:names:tc:emergency:EDXL:RM:1.0:iso4217:a - Completed in response to a “RequestQuote” - Conditional Usage: - Required <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestQuote” - May be indeterminate, i.e. “current market value.” - Not Applicable <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” <i>EDXLResourceMessage:MessageContentType</i> = “RequestQuote” - Optional, otherwise
Requirements Supported	10,30

3183

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

Definition	Reference to the external system number or ID assigned by the ordering system or personnel meeting the request for resources that has been made.
Comments	- There is no assurance of uniqueness between various external systems. - Conditional Usage: - Optional <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" <i>EDXLResourceMessage:MessageContentType</i> = "RequestResourceDeploymentStatus" <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" - Not Applicable, otherwise
Requirements Supported	18,30

3184 4.1.11 AssignmentInstructions Element

Element	ModeOfTransportation
Type	ModeOfTransportationType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Method or mode used to transport the resource to or from the incident.
Comments	- Conditional Usage: - Not Applicable <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" <i>EDXLResourceMessage:MessageContentType</i> =

	“RequestExtendedDeploymentDuration” o Optional, otherwise
Requirements Supported	18,30

3185

Element	NavigationInstructions
Type	NavigationInstructionsType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	Instructions that define how to get to the “ReportTo” location.
Comments	• Conditional Usage: - o Not Applicable ▪ <i>EDXLResourceMessage</i>:MessageContentType = “RequestResource” ▪ <i>EDXLResourceMessage</i>:MessageContentType = “RequestExtendedDeploymentDuration” - o Optional, otherwise
Requirements Supported	28

3186

Element	ReportingInstructions
Type	ReportingInstructionsType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	A text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role.
Comments	• Conditional Usage: - o Not Applicable ▪ <i>EDXLResourceMessage</i>:MessageContentType = “RequestResource” ▪ <i>EDXLResourceMessage</i>:MessageContentType = “RequestExtendedDeploymentDuration” - o Optional, otherwise

Requirements Supported	30
------------------------	----

3187 4.1.12 ScheduleInformation Element

Element	ScheduleType
Type	ScheduleTypeType [xsd:string]
Usage	REQUIRED , MUST be used once and only once
Definition	A scheduled event that occurs at a particular time and/or at a particular location.
Constraints	- Value MUST be one of the following: - RequestedArrival - 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 - EstimatedArrival - Date and time the resource is expected to arrive at its "ReportTo" location. - ActualArrival - Date and time when the resource arrives at its "ReportTo" location. - RequestedDeparture - Date and time when the resource is requested to Depart from its current location for transit to a "ReportTo" location. - EstimatedDeparture - Date and time when the resource is estimated to Depart from its current location for transit to a "ReportTo" location. - ActualDeparture - Date and time when the resource Departs from its current location for transit to a "ReportTo" location. - RequestedReturnArrival - Date and time the resource is requested to arrive from its deployment at its "OwningJurisdiction". - EstimatedReturnArrival - Date and time the resource is expected to arrive from its deployment at its "OwningJurisdiction". - ActualReturnArrival - Date and time the resource arrives from its deployment at its "OwningJurisdiction". - RequestedReturnDeparture - Date and time the resource is requested to Depart from its deployment

	for transit to its "OwningJurisdiction". 11. EstimatedReturnDeparture ▪ Date and time the resource is expected to Depart from its deployment for transit to its "OwningJurisdiction". 12. ActualReturnDeparture ▪ Date and time the resource Departs from its deployment for transit to its "OwningJurisdiction". 13. Committed ▪ Confirmation from Resource Supplier that resource has been allocated to Resource Consumer, usually in response to a "RequisitionResource" message. ▪ May be part of an "OriginatingMessage". 14. BeginAvailable ▪ Date and time the resource will become available for allocation. 15. EndAvailable ▪ Date and time the resource will cease to be available for deployment. 16. Current ▪ Location of resource at date and time of message. 17. ReportTo ▪ Location of place where resource is to be delivered. ▪ May include a text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role. 18. Route ▪ Information specifying the course of transit of resource from.Resource Supplier to Resource Consumer.
Requirements Supported	2, 11, 12, 28, 30

3188

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

3189

Element	Location
----------------	----------

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.

4.1.13 Supporting Element Types

4.1.13.1 ContactInformationType

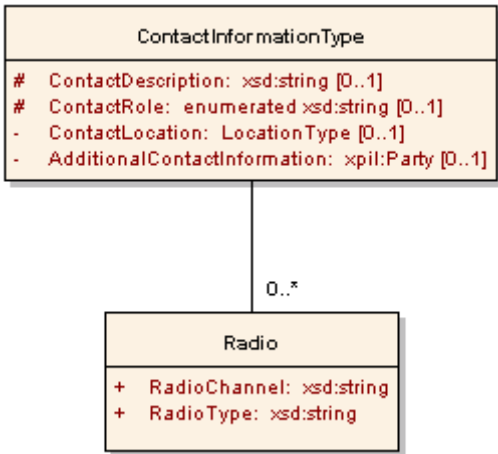


Figure 20: ContactInformationType Structure

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	If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present.
Comments	- The ContactDescription element is free text information identifying a contact that acts as an alternative to the ContactRole element for roles that are not covered by the ContactRole enumeration. The identifying information should be as specific as possible but can be suitably flexible (e.g. "Accounts Payable Clerk"). - The element contains information associated with the contact role that is easily understood by humans but that is not necessarily usable by automation

	systems.
Requirements Supported	18,23,24

3195

Element	ContactRole
Type	ContactRoleType [xsd:string enumeration]]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	Role of the contact associated with the resource message.
Constraints	▪ 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: 1. "Sender" (who sent the message) 2. "Requester" (authorization for the message / request) 3. "SubjectMatterExpert" (answer questions or provide details) 4. "Approver" 5. "RespondingOrg" (who responded to the message) 6. "Owner"
Requirements Supported	18,23,24

3196

Element	ContactLocation
Type	LocationType [XML Structure]
Usage	OPTIONAL , MAY be used once and only once.
Definition	The geophysical location of the contact.
Constraints	• 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	• Information on the structure of LocationType can be found in Section 4.1.13.2.
Requirements	18,23,24

Supported	
-----------	--

3197

Element	AdditionalContactInformation
Type	AdditionalContactInformationType [xpil:PartyType]
Usage	OPTIONAL , MAY be used once and only once.
Definition	Any other contact information including name and other Party information.
Comments	- The AdditionalContactInformation element is an xpil:PartyType structure that includes an xal:AddressType. - If the optional AdditionalContactInformation element is included, the physical postal address should be included in the AdditionalContactInformation xal:Address element. Otherwise, it may be included in the ContactLocation element. - The CIQ xpil:PartyType can specify person name, Organization name, contact phone numbers, email addresses, street addresses, etc. suitable for use in any country. This is the element that should be used to capture most of the contact information. - Example: <pre> <rm:AdditionalContactInformation> <xnl:PartyName> <xnl:PersonName> <xnl:NameElement xnl:ElementType="FirstName">Joe </xnl:NameElement> <xnl:NameElement xnl:ElementType="LastName">Williams </xnl:NameElement> </xnl:PersonName> <xnl:OrganizationName> <xnl:NameElement>Hardware Megastore Cairns </xnl:NameElement> </xnl:OrganizationName> </xnl:PartyName> <xpil:Addresses> <xal:Address> <xal:Country> <xal:Name>Australia</xal:Name> </xal:Country> <xal:AdministrativeArea> <xal:Name>QLD</xal:Name> </xal:AdministrativeArea> <xal:Locality> <xal:Name>Cairns</xal:Name> </xal:Locality> <xal:Thoroughfare> <xal:NameElement>Spence St</xal:NameElement> </xal:Thoroughfare> <xal:PostCode> <xal:Identifier>4870</xal:Identifier> </xal:PostCode> </xal:Address> </xpil:Addresses> <xpil:ContactNumbers> <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="8:00AM - 6:00PM"> <xpil:ContactNumberElement xpil:ElementType="CountryCode">61 </pre>

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

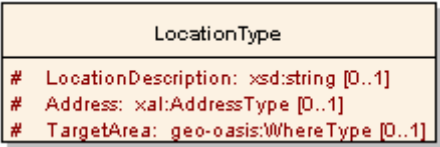
3198 **4.1.13.1.1 Radio Element**

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

3199

Element	RadioChannel
Type	RadioChannelType [xsd:string]]
Usage	REQUIRED , MUST be used once and only once
Definition	Contact radio channel of the person or organization referred to in ContactRole
Comments	“Channel” and “Frequency” are synonyms for purposes of this standard
Requirements Supported	18,23

3200 **4.1.13.2 LocationType**



3201

3202

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	At least one of the LocationDescription, Address or TargetArea elements MUST be present.

3203

Element	Address
Type	xal:AddressType
Usage	CONDITIONAL , MAY be used once and only once.
Definition	A CIQ structure containing address details in an internationally-applicable format (See Section 1.5)
Constraints	- At least one of the Description, Address or TargetArea elements MUST be present. - An example of a CIQ AddressType can be found in section 3.10.5

3204

Element	TargetArea
Type	geo-oasis:WhereType
Usage	CONDITIONAL , MAY be used once and only once.
Definition	The container element for GML-based geospatial information. This element uses the EDXL-HAVE geo-oasis schema. It allows the target Area to be defined by a choice that includes:
Constraints	At least one of the LocationDescription, Address or TargetArea elements MUST be present.
Comments	More detailed definitions for geo-oasis:WhereType and its components can be found in the geo-oasis schema. Specific usage of those types for EDXL-RM are found in section 4.1.13.2.1.

3205

4.1.13.2.1 Imported Type Definitions

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

Definition	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: • 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 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
Comments	• EDXL-RM uses the geo-oasis schema that is specified as an element of EDXL-HAVE, Both EDXL-RM and EDXL-HAVE require the use of the WGS84 coordinate reference system.

3206

Type	geo-oasis:WhereType using gml:Point
Usage	Where TargetAreaType is best represented as a WGS84 point.
Definition	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: <pre><gml:Point> <gml:pos>45.256 -71.92</gml:pos> </gml:Point></pre> More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.
Constraints	• WGS84 MUST be used for EDXL-RM.
Requirements Supported	

3207

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

	<pre> <gml:LineString> <gml:posList> 45.256 -110.45 46.46 -109.48 43.84 -109.86 </gml:posList> </gml:LineString> </pre> More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.
Constraints	WGS84 MUST be used for EDXL-RM.
Requirements Supported	

3208

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	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: <pre> <gml:CircleByCenterPoint> <gml:pos> 45.256 -110.45 </gml:pos> <gml:radius> 10 </gml:radius> </gml:CircleByCenterPoint> </pre> More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.
Constraints	- WGS84 MUST be used for EDXL-RM. - For EDXL-RM the unit of measure MUST be kilometers.

3209

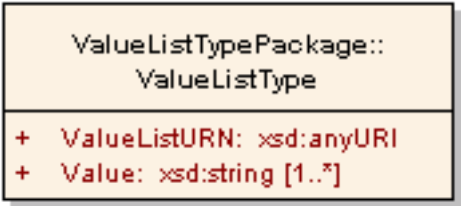
Type	geo-oasis:WhereType using gml:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS84 points representing an actual area of concern.
Definition	The use of gml:Polygon within TargetArea provides a ring of points (first and last point are the same) represented by a specific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

	<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> More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.
Constraints	▪ WGS84 MUST be used for EDXL-RM. ▪ For EDXL-RM gml:posList layout MUST be used.
Requirements Supported	

3210

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	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: <pre> <gml:Envelope> <gml:lowerCorner>42.943 -71.032</gml:lowerCorner> <gml:upperCorner>43.039 -69.856</gml:upperCorner> </gml:Envelope> </pre> More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.
Constraints	• WGS84 MUST be used for EDXL-RM.

3211 4.1.13.3 ValueListType



3212

3213

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

3214

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.

5 Conformance

5.1 Conformance Targets

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

- EDXL-RM Message; and
- EDXL-RM Message Producer.

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.

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.

5.2 Conformance Levels

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

- Level-1 EDXL-RM Message; and
- Level-2 EDXL-RM Message.

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.

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

- Level-1 EDXL-RM Message Producer; and
- Level-2 EDXL-RM Message Producer.

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.

5.3 Conformance as an EDXL-RM Message

5.3.1 Level-1 EDXL-RM Message

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

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

NOTE The Information Exchange Package Documentation (IEPD) process, specified within the United States National Information Exchange Model (available on www.niem.gov), can be used by a Community of Interest when specifying new types of resource messages conforming to Level 1.

5.3.2 Level-2 EDXL-RM Message

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

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

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

3304 5.4 Conformance as an EDXL-RM Message Producer

3305 5.4.1 Level-1 EDXL-RM Message Producer

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

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

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

3322 5.4.2 Level-2 EDXL-RM Message Producer

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

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

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

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

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/>.

A.1 Resource Messaging Common Types

```
<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>
```

```

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

```

```

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

```

```

3531     <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0" maxOccurs="1"/>
3532   </xsd:sequence>
3533 </xsd:complexType>
3534 <xsd:simpleType name="OwnerType">
3535   <xsd:restriction base="xsd:string"/>
3536 </xsd:simpleType>
3537 <xsd:simpleType name="OwningJurisdictionType">
3538   <xsd:restriction base="xsd:string"/>
3539 </xsd:simpleType>
3540 <xsd:simpleType name="HomeDispatchType">
3541   <xsd:restriction base="xsd:string"/>
3542 </xsd:simpleType>
3543 <xsd:simpleType name="HomeUnitType">
3544   <xsd:restriction base="xsd:string"/>
3545 </xsd:simpleType>
3546 <xsd:simpleType name="AvailabilityType">
3547   <xsd:restriction base="xsd:string"/>
3548 </xsd:simpleType>
3549 <xsd:simpleType name="QuantityTypeOld">
3550   <xsd:restriction base="xsd:string"/>
3551 </xsd:simpleType>
3552 <xsd:complexType name="QuantityType">
3553   <xsd:choice>
3554     <xsd:element name="QuantityText" type="xsd:string" maxOccurs="unbounded"/>
3555     <xsd:element name="MeasuredQuantity">
3556       <xsd:complexType>
3557         <xsd:sequence>
3558           <xsd:element name="Amount" type="xsd:double"/>
3559           <xsd:element name="UnitOfMeasure" type="ValueListType" minOccurs="0"/>
3560         </xsd:sequence>
3561       </xsd:complexType>
3562     </xsd:element>
3563   </xsd:choice>
3564 </xsd:complexType>
3565 <xsd:simpleType name="RestrictionsType">
3566   <xsd:restriction base="xsd:string"/>
3567 </xsd:simpleType>
3568 <xsd:simpleType name="AnticipatedFunctionType">
3569   <xsd:restriction base="xsd:string"/>
3570 </xsd:simpleType>
3571 <xsd:complexType name="PriceQuoteType">
3572   <xsd:complexContent>
3573     <xsd:extension base="QuantityType"/>
3574   </xsd:complexContent>
3575 </xsd:complexType>
3576 <xsd:simpleType name="OrderIDType">
3577   <xsd:restriction base="xsd:string"/>
3578 </xsd:simpleType>
3579 <xsd:complexType name="AssignmentInstructionsType">
3580   <xsd:sequence>
3581     <xsd:element name="ModeOfTransportation" type="ModeOfTransportationType"
3582       minOccurs="0"
3583       maxOccurs="1"/>
3584     <xsd:element name="NavigationInstructions" type="NavigationInstructionsType"
3585       minOccurs="0" maxOccurs="1"/>
3586     <xsd:element name="ReportingInstructions" type="ReportingInstructionsType"
3587       minOccurs="0"
3588       maxOccurs="1"/>
3589   </xsd:sequence>
3590 </xsd:complexType>
3591 <xsd:simpleType name="ModeOfTransportationType">
3592   <xsd:restriction base="xsd:string"/>
3593 </xsd:simpleType>
3594 <xsd:simpleType name="NavigationInstructionsType">
3595   <xsd:restriction base="xsd:string"/>
3596 </xsd:simpleType>
3597 <xsd:simpleType name="ReportingInstructionsType">
3598   <xsd:restriction base="xsd:string"/>
3599 </xsd:simpleType>
3600 <xsd:simpleType name="ScheduleTypeType">
3601   <xsd:restriction base="xsd:string">

```

```

3602     <xsd:enumeration value="RequestedArrival"/>
3603     <xsd:enumeration value="EstimatedArrival"/>
3604     <xsd:enumeration value="ActualArrival"/>
3605     <xsd:enumeration value="RequestedDeparture"/>
3606     <xsd:enumeration value="EstimatedDeparture"/>
3607     <xsd:enumeration value="ActualDeparture"/>
3608     <xsd:enumeration value="EstimatedReturnDeparture"/>
3609     <xsd:enumeration value="EstimatedReturnArrival"/>
3610     <xsd:enumeration value="ActualReturnArrival"/>
3611     <xsd:enumeration value="RequestedReturnDeparture"/>
3612     <xsd:enumeration value="RequestedReturnArrival"/>
3613     <xsd:enumeration value="ActualReturnDeparture"/>
3614     <xsd:enumeration value="BeginAvailable"/>
3615     <xsd:enumeration value="EndAvailable"/>
3616     <xsd:enumeration value="Committed"/>
3617     <xsd:enumeration value="Current"/>
3618     <xsd:enumeration value="ReportTo"/>
3619     <xsd:enumeration value="Route"/>
3620   </xsd:restriction>
3621 </xsd:simpleType>
3622 <xsd:complexType name="LocationType">
3623   <xsd:sequence>
3624     <!-- One (or more) of the LocationDescription, Address and TargetArea elements is
3625           required -->
3626     <xsd:element name="LocationDescription" type="LocationDescriptionType"
3627       minOccurs="0"
3628       maxOccurs="1"/>
3629     <xsd:element name="Address" type="xal:AddressType" minOccurs="0" maxOccurs="1"/>
3630     <xsd:element name="TargetArea" type="geo-oasis:WhereType" minOccurs="0"
3631       maxOccurs="1"/>
3632   </xsd:sequence>
3633 </xsd:complexType>
3634 <xsd:simpleType name="LocationDescriptionType">
3635   <xsd:restriction base="xsd:string"/>
3636 </xsd:simpleType>
3637 <xsd:complexType name="ValueListType">
3638   <xsd:sequence>
3639     <xsd:element name="ValueListURN" type="ValueListURNType"/>
3640     <xsd:element name="Value" type="ValueType" maxOccurs="unbounded"/>
3641   </xsd:sequence>
3642 </xsd:complexType>
3643 <xsd:simpleType name="ValueListURNType">
3644   <xsd:restriction base="xsd:anyURI"/>
3645 </xsd:simpleType>
3646 <xsd:simpleType name="ValueType">
3647   <xsd:restriction base="xsd:string"/>
3648 </xsd:simpleType>
3649 </xsd:schema>

```

A.2 Resource Messaging Reference Schema

```

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

```

```

3669 <element name="MessageDescription" type="rm:MessageDescriptionType"
3670 minOccurs="0" maxOccurs="1"/>
3671 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3672 <element name="PrecedingMessageID" type="rm:MessageIDType"
3673 minOccurs="0" maxOccurs="1"/>
3674 <element name="IncidentInformation" type="rm:IncidentInformationType"
3675 minOccurs="0" maxOccurs="unbounded"/>
3676 <element name="MessageRecall" type="rm:MessageRecallType"
3677 minOccurs="0" maxOccurs="1"/>
3678 <element name="Funding" type="rm:FundingType" minOccurs="0"
3679 maxOccurs="unbounded"/>
3680 <element name="ContactInformation" type="rm:ContactInformationType"
3681 minOccurs="1" maxOccurs="unbounded"/>
3682 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
3683 <complexType>
3684 <sequence>
3685 <element name="ResourceInfoElementID"
3686 type="rm:ResourceInfoElementIDType"/>
3687 <element name="ResponseInformation" type="rm:ResponseInformationType"
3688 minOccurs="0" maxOccurs="1"/>
3689 <element name="Resource" minOccurs="0" maxOccurs="1">
3690 <complexType>
3691 <sequence>
3692 <!-- One (or more) of first three elements is required -->
3693 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3694 maxOccurs="1"/>
3695 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3696 maxOccurs="1"/>
3697 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3698 maxOccurs="1"/>
3699 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3700 maxOccurs="1"/>
3701 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3702 maxOccurs="unbounded"/>
3703 <element name="Description" type="rm:DescriptionType" minOccurs="0"
3704 maxOccurs="1"/>
3705 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3706 maxOccurs="1"/>
3707 <element name="Certifications" type="rm:CertificationsType"
3708 minOccurs="0" maxOccurs="1"/>
3709 <element name="SpecialRequirements"
3710 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3711 <element name="ResponsibleParty" type="rm:ContactInformationType"
3712 minOccurs="0" maxOccurs="1"/>
3713 <element name="OwnershipInformation"
3714 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3715 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3716 <complexType>
3717 <sequence>
3718 <element name="InventoryRefreshDateTime"
3719 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3720 <element name="DeploymentStatus" type="rm:ValueListType"
3721 minOccurs="0" maxOccurs="1"/>
3722 <element name="Availability" type="rm:AvailabilityType"
3723 minOccurs="0" maxOccurs="1"/>
3724 </sequence>
3725 </complexType>
3726 </element>
3727 </sequence>
3728 </complexType>
3729 </element>
3730 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3731 <complexType>
3732 <sequence>
3733 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3734 maxOccurs="1"/>
3735 <element name="Restrictions" type="rm:RestrictionsType"
3736 minOccurs="0" maxOccurs="1"/>
3737 <element name="AnticipatedFunction"
3738 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3739 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

3740         maxOccurs="1"/>
3741         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
3742         maxOccurs="1"/>
3743         <element name="AssignmentInstructions"
3744         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3745     </sequence>
3746 </complexType>
3747 </element>
3748 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3749     <complexType>
3750     <sequence>
3751         <element name="ScheduleType" type="rm:ScheduleTypeType"/>
3752         <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3753         maxOccurs="1"/>
3754         <element name="Location" type="rm:LocationType" minOccurs="0"
3755         maxOccurs="1"/>
3756     </sequence>
3757 </complexType>
3758 </element>
3759 </sequence>
3760 </complexType>
3761 </element>
3762 </sequence>
3763 </complexType>
3764 </schema>

```

A.3 RequestResource Message Schema

```

3765
3766 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3767         xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3768         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3769         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3770         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3771         elementFormDefault="qualified"
3772         <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3773         schemaLocation="EDXL-RMCommonTypes.xsd"/>
3774         <!-- This schema describes the structure of
3775         EDXL-RM "RequestResource" messages. -->
3776         <element name="RequestResource">
3777             <complexType>
3778             <sequence>
3779                 <element name="MessageID" type="rm:MessageIDType"/>
3780                 <element name="SentDateTime" type="rm:DateTimeType"/>
3781                 <element name="MessageContentType">
3782                     <simpleType>
3783                     <restriction base="rm:MessageContentTypeType">
3784                         <enumeration value="RequestResource"/>
3785                     </restriction>
3786                     </simpleType>
3787                 </element>
3788
3789                 <element name="MessageDescription" type="rm:MessageDescriptionType" minOccurs="0"
3790                 maxOccurs="1"/>
3791                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3792                 <element name="IncidentInformation" type="rm:IncidentInformationType"
3793                 minOccurs="0" maxOccurs="unbounded"/>
3794                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3795                 maxOccurs="1"/>
3796                 <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3797                     <complexType>
3798                     <sequence>
3799                         <!-- One(or both) of the FundCode and FundingInfo elements is required -->
3800                         <element name="FundCode" type="rm:FundCodeType" minOccurs="0"
3801                         maxOccurs="1"/>
3802                         <element name="FundingInfo" type="rm:FundingInfoType" minOccurs="0"
3803                         maxOccurs="1"/>
3804                     </sequence>
3805                     </complexType>
3806                 </element>

```

```

3807 <element name="ContactInformation" type="rm:ContactInformationType"
3808 minOccurs="1" maxOccurs="unbounded"/>
3809 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3810 <complexType>
3811 <sequence>
3812 <element name="ResourceInfoElementID"
3813 type="rm:ResourceInfoElementIDType"/>
3814 <element name="Resource">
3815 <complexType>
3816 <sequence>
3817 <!-- One (or more) of first three elements is required -->
3818 <element name="ResourceID" type="rm:ResourceIDType"
3819 minOccurs="0" maxOccurs="1"/>
3820 <element name="Name" type="rm:ResourceNameType"
3821 minOccurs="0" maxOccurs="1"/>
3822 <element name="TypeStructure" type="rm:ValueListType"
3823 minOccurs="0" maxOccurs="1"/>
3824 <element name="TypeInfo" type="rm:TypeInfoType"
3825 minOccurs="0" maxOccurs="1"/>
3826 <element name="Keyword" type="rm:ValueListType"
3827 minOccurs="0" maxOccurs="unbounded"/>
3828 <element name="Description" type="rm:DescriptionType"
3829 minOccurs="0" maxOccurs="1"/>
3830 <element name="Credentials" type="rm:CredentialsType"
3831 minOccurs="0" maxOccurs="1"/>
3832 <element name="Certifications" type="rm:CertificationsType"
3833 minOccurs="0" maxOccurs="1"/>
3834 <element name="SpecialRequirements"
3835 type="rm:SpecialRequirementsType" minOccurs="0"
3836 maxOccurs="1"/>
3837 </sequence>
3838 </complexType>
3839 </element>
3840 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3841 <complexType>
3842 <sequence>
3843 <element name="Quantity" type="rm:QuantityType"
3844 minOccurs="0" maxOccurs="1"/>
3845 <element name="Restrictions" type="rm:RestrictionsType"
3846 minOccurs="0" maxOccurs="1"/>
3847 <element name="AnticipatedFunction"
3848 type="rm:AnticipatedFunctionType" minOccurs="0"
3849 maxOccurs="1"/>
3850 </sequence>
3851 </complexType>
3852 </element>
3853 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3854 <complexType>
3855 <sequence>
3856 <element name="ScheduleType">
3857 <simpleType>
3858 <restriction base="rm:ScheduleTypeType">
3859 <enumeration value="RequestedArrival"/>
3860 <enumeration value="RequestedDeparture"/>
3861 <enumeration value="EstimatedReturnDeparture"/>
3862 <enumeration value="EstimatedReturnArrival"/>
3863 <enumeration value="ReportTo"/>
3864 <enumeration value="Route"/>
3865 </restriction>
3866 </simpleType>
3867 </element>
3868 <element name="DateTime" type="rm:DateTimeType"
3869 minOccurs="0" maxOccurs="1"/>
3870 <element name="Location" type="rm:LocationType"
3871 minOccurs="0" maxOccurs="1"/>
3872 </sequence>
3873 </complexType>
3874 </element>
3875 </sequence>
3876 </complexType>
3877 </element>

```



```
3878     </sequence>
3879   </complexType>
3880 </element>
3881 </schema>
```

A.4 ResponseToRequestResource Message Schema

```
3883 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3884   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3885   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3886   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3887   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3888   elementFormDefault="qualified"
3889   attributeFormDefault="unqualified">
3890   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3891     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3892   <!-- This schema describes the structure of
3893     EDXL-RM "ResponseToRequestResource"
3894     messages. -->
3895   <element name="ResponseToRequestResource">
3896     <complexType>
3897       <sequence>
3898         <element name="MessageID" type="rm:MessageIDType"/>
3899         <element name="SentDateTime" type="rm:DateTimeType"/>
3900         <element name="MessageContentType">
3901           <simpleType>
3902             <restriction base="rm:MessageContentTypeType">
3903               <enumeration value="ResponseToRequestResource"/>
3904             </restriction>
3905           </simpleType>
3906         </element>
3907         <element name="MessageDescription" type="rm:MessageDescriptionType"
3908           minOccurs="0" maxOccurs="1"/>
3909         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3910         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
3911         <element name="IncidentInformation" type="rm:IncidentInformationType"
3912           minOccurs="0" maxOccurs="unbounded"/>
3913         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3914           maxOccurs="1"/>
3915         <element name="Funding" type="rm:FundingType" minOccurs="0"
3916           maxOccurs="unbounded"/>
3917         <element name="ContactInformation" type="rm:ContactInformationType"
3918           minOccurs="1" maxOccurs="unbounded"/>
3919         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3920           <complexType>
3921             <sequence>
3922               <element name="ResourceInfoElementID"
3923                 type="rm:ResourceInfoElementIDType"/>
3924               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
3925               <element name="Resource" minOccurs="0" maxOccurs="1">
3926                 <complexType>
3927                   <sequence>
3928                     <!-- One (or more) of first three elements is required -->
3929                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3930                       maxOccurs="1"/>
3931                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3932                       maxOccurs="1"/>
3933                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3934                       maxOccurs="1"/>
3935                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3936                       maxOccurs="1"/>
3937                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3938                       maxOccurs="unbounded"/>
3939                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
3940                       maxOccurs="1"/>
3941                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3942                       maxOccurs="1"/>
3943                     <element name="Certifications" type="rm:CertificationsType"
3944                       minOccurs="0" maxOccurs="1"/>
```

```

3945      <element name="SpecialRequirements"
3946        type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3947      <element name="ResponsibleParty" type="rm:ContactInformationType"
3948        minOccurs="0" maxOccurs="1"/>
3949      <element name="OwnershipInformation"
3950        type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3951      <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3952        <complexType>
3953          <sequence>
3954            <element name="InventoryRefreshDateTime"
3955              type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3956            <element name="DeploymentStatus" type="rm:ValueListType"
3957              minOccurs="0" maxOccurs="1"/>
3958            <element name="Availability" type="rm:AvailabilityType"
3959              minOccurs="0" maxOccurs="1"/>
3960          </sequence>
3961        </complexType>
3962      </element>
3963    </sequence>
3964  </complexType>
3965 </element>
3966 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3967   <complexType>
3968     <sequence>
3969       <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3970         maxOccurs="1"/>
3971       <element name="Restrictions" type="rm:RestrictionsType"
3972         minOccurs="0" maxOccurs="1"/>
3973       <element name="AnticipatedFunction"
3974         type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3975       <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3976         maxOccurs="1"/>
3977       <element name="AssignmentInstructions"
3978         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3979     </sequence>
3980   </complexType>
3981 </element>
3982 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3983   <complexType>
3984     <sequence>
3985       <element name="ScheduleType">
3986         <simpleType>
3987           <restriction base="rm:ScheduleTypeType">
3988             <enumeration value="EstimatedArrival"/>
3989             <enumeration value="EstimatedDeparture"/>
3990             <enumeration value="RequestedReturnDeparture"/>
3991             <enumeration value="RequestedReturnArrival"/>
3992             <enumeration value="BeginAvailable"/>
3993             <enumeration value="EndAvailable"/>
3994             <enumeration value="RequestedArrival"/>
3995             <enumeration value="RequestedDeparture"/>
3996             <enumeration value="EstimatedReturnDeparture"/>
3997             <enumeration value="ReportTo"/>
3998             <enumeration value="Route"/>
3999           </restriction>
4000         </simpleType>
4001       </element>
4002       <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4003         maxOccurs="1"/>
4004       <element name="Location" type="rm:LocationType" minOccurs="0"
4005         maxOccurs="1"/>
4006     </sequence>
4007   </complexType>
4008 </element>
4009 </sequence>
4010 </complexType>
4011 </element>
4012 </sequence>
4013 </complexType>
4014 </element>

```

4015 </schema>

4016 A.5 RequisitionResource Message Schema

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

```

4082         <element name="OwnershipInformation"
4083             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4084     </sequence>
4085 </complexType>
4086 </element>
4087 <element name="AssignmentInformation">
4088     <complexType>
4089         <sequence>
4090             <element name="Quantity" type="rm:QuantityType"/>
4091             <element name="Restrictions" type="rm:RestrictionsType"
4092                 minOccurs="0" maxOccurs="1"/>
4093             <element name="AnticipatedFunction"
4094                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4095             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4096                 maxOccurs="1"/>
4097             <element name="AssignmentInstructions"
4098                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4099         </sequence>
4100     </complexType>
4101 </element>
4102 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4103     <complexType>
4104         <sequence>
4105             <element name="ScheduleType">
4106                 <simpleType>
4107                     <restriction base="rm:ScheduleTypeType">
4108                         <enumeration value="EstimatedArrival"/>
4109                         <enumeration value="EstimatedDeparture"/>
4110                         <enumeration value="EstimatedReturnDeparture"/>
4111                         <enumeration value="EstimatedReturnArrival"/>
4112                         <enumeration value="ReportTo"/>
4113                         <enumeration value="RequestedArrival"/>
4114                         <enumeration value="RequestedDeparture"/>
4115                         <enumeration value="Route"/>
4116                     </restriction>
4117                 </simpleType>
4118             </element>
4119             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4120                 maxOccurs="1"/>
4121             <element name="Location" type="rm:LocationType" minOccurs="0"
4122                 maxOccurs="1"/>
4123         </sequence>
4124     </complexType>
4125 </element>
4126 </sequence>
4127 </complexType>
4128 </element>
4129 </sequence>
4130 </complexType>
4131 </element>
4132 </schema>

```

4133 A.6 CommitResource Message Schema

```

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

```

```

4149 <element name="SentDateTime" type="rm:DateTimeType"/>
4150 <element name="MessageContentType">
4151 <simpleType>
4152 <restriction base="rm:MessageContentTypeType">
4153 <enumeration value="CommitResource"/>
4154 </restriction>
4155 </simpleType>
4156 </element>
4157 <element name="MessageDescription" type="rm:MessageDescriptionType"
4158 minOccurs="0" maxOccurs="1"/>
4159 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4160 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4161 <element name="IncidentInformation" type="rm:IncidentInformationType"
4162 minOccurs="0" maxOccurs="unbounded"/>
4163 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4164 maxOccurs="1"/>
4165 <element name="Funding" type="rm:FundingType" minOccurs="0"
4166 maxOccurs="unbounded"/>
4167 <element name="ContactInformation" type="rm:ContactInformationType"
4168 minOccurs="1" maxOccurs="unbounded"/>
4169 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4170 <complexType>
4171 <sequence>
4172 <element name="ResourceInfoElementID"
4173 type="rm:ResourceInfoElementType"/>
4174 <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4175 <element name="Resource" minOccurs="0" maxOccurs="1">
4176 <complexType>
4177 <sequence>
4178 <!-- One (or more) of first three elements is required -->
4179 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4180 maxOccurs="1"/>
4181 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4182 maxOccurs="1"/>
4183 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4184 maxOccurs="1"/>
4185 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4186 maxOccurs="1"/>
4187 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4188 maxOccurs="unbounded"/>
4189 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4190 maxOccurs="1"/>
4191 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4192 maxOccurs="1"/>
4193 <element name="Certifications" type="rm:CertificationsType"
4194 minOccurs="0" maxOccurs="1"/>
4195 <element name="SpecialRequirements"
4196 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4197 <element name="ResponsibleParty" type="rm:ContactInformationType"
4198 minOccurs="0" maxOccurs="1"/>
4199 <element name="OwnershipInformation"
4200 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4201 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4202 <complexType>
4203 <sequence>
4204 <element name="InventoryRefreshDateTime"
4205 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4206 <element name="DeploymentStatus" type="rm:ValueListType"
4207 minOccurs="0" maxOccurs="1"/>
4208 </sequence>
4209 </complexType>
4210 </element>
4211 </sequence>
4212 </complexType>
4213 </element>
4214 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4215 <complexType>
4216 <sequence>
4217 <element name="Quantity" type="rm:QuantityType"/>
4218 <element name="Restrictions" type="rm:RestrictionsType"
4219 minOccurs="0" maxOccurs="1"/>

```

```

4220         <element name="AnticipatedFunction"
4221             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4222         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4223             maxOccurs="1"/>
4224         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4225             maxOccurs="1"/>
4226         <element name="AssignmentInstructions"
4227             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4228     </sequence>
4229 </complexType>
4230 </element>
4231 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4232     <complexType>
4233         <sequence>
4234             <element name="ScheduleType">
4235                 <simpleType>
4236                     <restriction base="rm:ScheduleTypeType">
4237                         <enumeration value="ActualDeparture"/>
4238                         <enumeration value="Committed"/>
4239                         <enumeration value="RequestedArrival"/>
4240                         <enumeration value="RequestedDeparture"/>
4241                         <enumeration value="EstimatedReturnDeparture"/>
4242                         <enumeration value="RequestedReturnArrival"/>
4243                         <enumeration value="EstimatedReturnArrival"/>
4244                         <enumeration value="ReportTo"/>
4245                         <enumeration value="EstimatedArrival"/>
4246                         <enumeration value="EstimatedDeparture"/>
4247                         <enumeration value="RequestedReturnDeparture"/>
4248                         <enumeration value="BeginAvailable"/>
4249                         <enumeration value="EndAvailable"/>
4250                         <enumeration value="Current"/>
4251                         <enumeration value="Route"/>
4252                     </restriction>
4253                 </simpleType>
4254             </element>
4255             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4256                 maxOccurs="1"/>
4257             <element name="Location" type="rm:LocationType" minOccurs="0"
4258                 maxOccurs="1"/>
4259         </sequence>
4260     </complexType>
4261 </element>
4262 </sequence>
4263 </complexType>
4264 </element>
4265 </sequence>
4266 </complexType>
4267 </element>
4268 </schema>

```

4269 A.7 RequestInformation Message Schema

```

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

```

```

4287         <simpleType>
4288             <restriction base="rm:MessageContentTypeType">
4289                 <enumeration value="RequestInformation"/>
4290             </restriction>
4291         </simpleType>
4292     </element>
4293     <element name="MessageDescription" type="rm:MessageDescriptionType"/>
4294     <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4295     <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4296         maxOccurs="1"/>
4297     <element name="IncidentInformation" type="rm:IncidentInformationType"
4298         minOccurs="0" maxOccurs="unbounded"/>
4299     <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4300         maxOccurs="1"/>
4301     <element name="Funding" type="rm:FundingType" minOccurs="0"
4302         maxOccurs="unbounded"/>
4303     <element name="ContactInformation" type="rm:ContactInformationType"
4304         minOccurs="1" maxOccurs="unbounded"/>
4305     <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4306         <complexType>
4307             <sequence>
4308                 <element name="ResourceInfoElementID"
4309                     type="rm:ResourceInfoElementIDType"/>
4310                 <element name="Resource" minOccurs="0" maxOccurs="1">
4311                     <complexType>
4312                         <sequence>
4313                             <!-- One (or more) of first three elements is required -->
4314                             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4315                                 maxOccurs="1"/>
4316                             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4317                                 maxOccurs="1"/>
4318                             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4319                                 maxOccurs="1"/>
4320                             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4321                                 maxOccurs="1"/>
4322                             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4323                                 maxOccurs="unbounded"/>
4324                             <element name="Description" type="rm:DescriptionType" minOccurs="0"
4325                                 maxOccurs="1"/>
4326                             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4327                                 maxOccurs="1"/>
4328                             <element name="Certifications" type="rm:CertificationsType"
4329                                 minOccurs="0" maxOccurs="1"/>
4330                             <element name="SpecialRequirements"
4331                                 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4332                             <element name="ResponsibleParty" type="rm:ContactInformationType"
4333                                 minOccurs="0" maxOccurs="1"/>
4334                             <element name="OwnershipInformation"
4335                                 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4336                             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4337                                 <complexType>
4338                                     <sequence>
4339                                         <element name="InventoryRefreshDateTime"
4340                                             type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4341                                         <element name="DeploymentStatus" type="rm:ValueListType"
4342                                             minOccurs="0" maxOccurs="1"/>
4343                                         <element name="Availability" type="rm:AvailabilityType"
4344                                             minOccurs="0" maxOccurs="1"/>
4345                                     </sequence>
4346                                 </complexType>
4347                             </element>
4348                         </sequence>
4349                     </complexType>
4350                 </element>
4351                 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4352                     <complexType>
4353                         <sequence>
4354                             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4355                                 maxOccurs="1"/>
4356                             <element name="Restrictions" type="rm:RestrictionsType"
4357                                 minOccurs="0" maxOccurs="1"/>

```

```

4358         <element name="AnticipatedFunction"
4359             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4360         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4361             maxOccurs="1"/>
4362         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4363             maxOccurs="1"/>
4364         <element name="AssignmentInstructions"
4365             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4366     </sequence>
4367 </complexType>
4368 </element>
4369 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4370     <complexType>
4371         <sequence>
4372             <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4373             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4374                 maxOccurs="1"/>
4375             <element name="Location" type="rm:LocationType" minOccurs="0"
4376                 maxOccurs="1"/>
4377         </sequence>
4378     </complexType>
4379 </element>
4380 </sequence>
4381 </complexType>
4382 </element>
4383 </sequence>
4384 </complexType>
4385 </element>
4386 </schema>

```

4387 A.8 ResponseToRequestInformation Message Schema

```

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

```



```

4425 <sequence>
4426 <element name="ResourceInfoElementID"
4427 type="rm:ResourceInfoElementIDType"/>
4428 <element name="ResponseInformation" type="rm:ResponseInformationType"
4429 minOccurs="0" maxOccurs="1"/>
4430 <element name="Resource" minOccurs="0" maxOccurs="1">
4431 <complexType>
4432 <sequence>
4433 <!-- One (or more) of first three elements is required -->
4434 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4435 maxOccurs="1"/>
4436 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4437 maxOccurs="1"/>
4438 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4439 maxOccurs="1"/>
4440 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4441 maxOccurs="1"/>
4442 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4443 maxOccurs="unbounded"/>
4444 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4445 maxOccurs="1"/>
4446 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4447 maxOccurs="1"/>
4448 <element name="Certifications" type="rm:CertificationsType"
4449 minOccurs="0" maxOccurs="1"/>
4450 <element name="SpecialRequirements"
4451 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4452 <element name="ResponsibleParty" type="rm:ContactInformationType"
4453 minOccurs="0" maxOccurs="1"/>
4454 <element name="OwnershipInformation"
4455 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4456 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4457 <complexType>
4458 <sequence>
4459 <element name="InventoryRefreshDateTime"
4460 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4461 <element name="DeploymentStatus" type="rm:ValueListType"
4462 minOccurs="0" maxOccurs="1"/>
4463 <element name="Availability" type="rm:AvailabilityType"
4464 minOccurs="0" maxOccurs="1"/>
4465 </sequence>
4466 </complexType>
4467 </element>
4468 </sequence>
4469 </complexType>
4470 </element>
4471 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4472 <complexType>
4473 <sequence>
4474 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4475 maxOccurs="1"/>
4476 <element name="Restrictions" type="rm:RestrictionsType"
4477 minOccurs="0" maxOccurs="1"/>
4478 <element name="AnticipatedFunction"
4479 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4480 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4481 maxOccurs="1"/>
4482 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4483 maxOccurs="1"/>
4484 <element name="AssignmentInstructions"
4485 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4486 </sequence>
4487 </complexType>
4488 </element>
4489 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4490 <complexType>
4491 <sequence>
4492 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4493 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4494 maxOccurs="1"/>
4495 <element name="Location" type="rm:LocationType" minOccurs="0"

```

```

4496         maxOccurs="1"/>
4497     </sequence>
4498 </complexType>
4499 </element>
4500 </sequence>
4501 </complexType>
4502 </element>
4503 </sequence>
4504 </complexType>
4505 </element>
4506 </schema>

```

4507 A.9 OfferUnsolicitedResource Message Schema

```

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

```

```

4563     <element name="Certifications" type="rm:CertificationsType"
4564         minOccurs="0" maxOccurs="1"/>
4565     <element name="SpecialRequirements"
4566         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4567     <element name="ResponsibleParty" type="rm:ContactInformationType"
4568         minOccurs="0" maxOccurs="1"/>
4569     <element name="OwnershipInformation"
4570         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4571     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4572         <complexType>
4573             <sequence>
4574                 <element name="InventoryRefreshDateTime"
4575                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4576                 <element name="DeploymentStatus" type="rm:ValueListType"
4577                     minOccurs="0" maxOccurs="1"/>
4578                 <element name="Availability" type="rm:AvailabilityType"
4579                     minOccurs="0" maxOccurs="1"/>
4580             </sequence>
4581         </complexType>
4582     </element>
4583 </sequence>
4584 </complexType>
4585 </element>
4586 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4587     <complexType>
4588         <sequence>
4589             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4590                 maxOccurs="1"/>
4591             <element name="Restrictions" type="rm:RestrictionsType"
4592                 minOccurs="0" maxOccurs="1"/>
4593             <element name="AnticipatedFunction"
4594                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4595             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4596                 maxOccurs="1"/>
4597             <element name="AssignmentInstructions"
4598                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4599         </sequence>
4600     </complexType>
4601 </element>
4602 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4603     <complexType>
4604         <sequence>
4605             <element name="ScheduleType">
4606                 <simpleType>
4607                     <restriction base="rm:ScheduleTypeType">
4608                         <enumeration value="EstimatedArrival"/>
4609                         <enumeration value="EstimatedDeparture"/>
4610                         <enumeration value="RequestedReturnDeparture"/>
4611                         <enumeration value="RequestedReturnArrival"/>
4612                         <enumeration value="BeginAvailable"/>
4613                         <enumeration value="EndAvailable"/>
4614                         <enumeration value="Route"/>
4615                     </restriction>
4616                 </simpleType>
4617             </element>
4618             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4619                 maxOccurs="1"/>
4620             <element name="Location" type="rm:LocationType" minOccurs="0"
4621                 maxOccurs="1"/>
4622         </sequence>
4623     </complexType>
4624 </element>
4625 </sequence>
4626 </complexType>
4627 </element>
4628 </sequence>
4629 </complexType>
4630 </element>
4631 </schema>

```

4632 A.10 ReleaseResource Message Schema

```

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

```

```

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

```

4771 </schema>

4772 A.11 RequestReturn Message Schema

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

```

```

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

```

4907 A.12 ResponseToRequestReturn Message Schema

```

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

```



```

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

```

5044 A.13 RequestQuote Message Schema

```

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

```

```

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

```

5160 A.14 ResponseToRequestQuote Message Schema

```

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

```

```

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

```

```

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

```

5293 A.15 RequestResourceDeploymentStatus Message Schema

```

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

```

```

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

```

```

5387         <restriction base="rm:ScheduleTypeType">
5388             <enumeration value="RequestedArrival"/>
5389             <enumeration value="EstimatedArrival"/>
5390             <enumeration value="ActualArrival"/>
5391             <enumeration value="RequestedDeparture"/>
5392             <enumeration value="EstimatedDeparture"/>
5393             <enumeration value="ActualDeparture"/>
5394             <enumeration value="RequestedReturnDeparture"/>
5395             <enumeration value="EstimatedReturnDeparture"/>
5396             <enumeration value="ActualReturnDeparture"/>
5397             <enumeration value="RequestedReturnArrival"/>
5398             <enumeration value="EstimatedReturnArrival"/>
5399             <enumeration value="ActualReturnArrival"/>
5400             <enumeration value="BeginAvailable"/>
5401             <enumeration value="EndAvailable"/>
5402             <enumeration value="Committed"/>
5403             <enumeration value="ReportTo"/>
5404             <enumeration value="Route"/>
5405         </restriction>
5406     </simpleType>
5407 </element>
5408 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5409     maxOccurs="1"/>
5410 <element name="Location" type="rm:LocationType" minOccurs="0"
5411     maxOccurs="1"/>
5412 </sequence>
5413 </complexType>
5414 </element>
5415 </sequence>
5416 </complexType>
5417 </element>
5418 </sequence>
5419 </complexType>
5420 </element>
5421 </schema>

```

5422 A.16 ReportResourceDeploymentStatus Message Schema

```

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

```

```

5454     maxOccurs="1"/>
5455     <element name="Funding" type="rm:FundingType" minOccurs="0"
5456       maxOccurs="unbounded"/>
5457     <element name="ContactInformation" type="rm:ContactInformationType"
5458       minOccurs="1" maxOccurs="unbounded"/>
5459     <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5460       <complexType>
5461         <sequence>
5462           <element name="ResourceInfoElementID"
5463             type="rm:ResourceInfoElementIDType"/>
5464           <element name="ResponseInformation" type="rm:ResponseInformationType"
5465             minOccurs="0" maxOccurs="1"/>
5466           <element name="Resource" minOccurs="0" maxOccurs="1">
5467             <complexType>
5468               <sequence>
5469                 <!-- One (or more) of first three elements is required -->
5470                 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5471                   maxOccurs="1"/>
5472                 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5473                   maxOccurs="1"/>
5474                 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5475                   maxOccurs="1"/>
5476                 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5477                   maxOccurs="1"/>
5478                 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5479                   maxOccurs="unbounded"/>
5480                 <element name="Description" type="rm:DescriptionType" minOccurs="0"
5481                   maxOccurs="1"/>
5482                 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5483                   maxOccurs="1"/>
5484                 <element name="Certifications" type="rm:CertificationsType"
5485                   minOccurs="0" maxOccurs="1"/>
5486                 <element name="SpecialRequirements"
5487                   type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5488                 <element name="ResponsibleParty" type="rm:ContactInformationType"
5489                   minOccurs="0" maxOccurs="1"/>
5490                 <element name="OwnershipInformation"
5491                   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5492                 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5493                   <complexType>
5494                     <sequence>
5495                       <element name="InventoryRefreshDateTime"
5496                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5497                       <element name="DeploymentStatus" type="rm:ValueListType"
5498                         minOccurs="0" maxOccurs="1"/>
5499                       <element name="Availability" type="rm:AvailabilityType"
5500                         minOccurs="0" maxOccurs="1"/>
5501                     </sequence>
5502                   </complexType>
5503                 </element>
5504               </sequence>
5505             </complexType>
5506           </element>
5507           <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5508             <complexType>
5509               <sequence>
5510                 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5511                   maxOccurs="1"/>
5512                 <element name="Restrictions" type="rm:RestrictionsType"
5513                   minOccurs="0" maxOccurs="1"/>
5514                 <element name="AnticipatedFunction"
5515                   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5516                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5517                   maxOccurs="1"/>
5518                 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5519                   maxOccurs="1"/>
5520                 <element name="AssignmentInstructions"
5521                   type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5522               </sequence>
5523             </complexType>
5524           </element>

```



```

5525         <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5526             <complexType>
5527                 <sequence>
5528                     <element name="ScheduleType">
5529                         <simpleType>
5530                             <restriction base="rm:ScheduleTypeType">
5531                                 <enumeration value="RequestedArrival"/>
5532                                 <enumeration value="EstimatedArrival"/>
5533                                 <enumeration value="ActualArrival"/>
5534                                 <enumeration value="RequestedDeparture"/>
5535                                 <enumeration value="EstimatedDeparture"/>
5536                                 <enumeration value="ActualDeparture"/>
5537                                 <enumeration value="RequestedReturnDeparture"/>
5538                                 <enumeration value="EstimatedReturnDeparture"/>
5539                                 <enumeration value="ActualReturnDeparture"/>
5540                                 <enumeration value="RequestedReturnArrival"/>
5541                                 <enumeration value="EstimatedReturnArrival"/>
5542                                 <enumeration value="ActualReturnArrival"/>
5543                                 <enumeration value="BeginAvailable"/>
5544                                 <enumeration value="EndAvailable"/>
5545                                 <enumeration value="Committed"/>
5546                                 <enumeration value="Current"/>
5547                                 <enumeration value="ReportTo"/>
5548                                 <enumeration value="Route"/>
5549                             </restriction>
5550                         </simpleType>
5551                     </element>
5552                     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5553                         maxOccurs="1"/>
5554                     <element name="Location" type="rm:LocationType" minOccurs="0"
5555                         maxOccurs="1"/>
5556                 </sequence>
5557             </complexType>
5558         </element>
5559     </sequence>
5560 </complexType>
5561 </element>
5562 </sequence>
5563 </complexType>
5564 </element>
5565 </schema>

```

5566

5567 A.17 Request Extended Deployment Duration Message Schema

```

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

```

```

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

```

A.18 ResponseToRequestExtendedDeploymentDuration Message Schema

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

```

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

```

A.19 Acknowledgements

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

Participants:

Dr. Patti Aymond, Individual
Art Botterell, Individual
Rex Brooks, Individual
Kurt Buehler, Associate Member
Mr. Mark Carlson, Conneva, Inc.
Eliot Christian, US Department of the Interior
Mr. David Danko, ESRI
Mr. Sukumar Dwarkanath, Associate Member
David Ellis, Individual
Jack Fox, US Department of Homeland Security
Tim Grapes, Evolution Technologies Inc.
Gary Ham, Individual
Adam Hocek, Associate Member
Dr. Renato Iannella, NICTA
Mrs. Elysa Jones, Warning Systems, Inc.
Mr. David Kehrlein, ESRI
Mr. Jeff Kyser, Warning Systems, Inc.
Ron Lake, Galdos Systems Inc.
Mr. Tom Merkle, Lockheed Martin
Mr. Enoch Moses, ManTech Enterprise Integration Center (e-IC)
Michelle Raymond, Associate Member
Dr. Carl Reed, Open Geospatial Consortium, Inc. (OGC)
Ms. Julia Ridgely, Individual
Dr. Karen Robinson, NICTA
Mr. Anthony Sangha, Raining Data Corporation
Mr. Josh Shows, ESI Acquisition, Inc.
Aviv Siegel, Athoc, Inc.
Mr. Bryan Small, ESI Acquisition, Inc.
Dr. Aaron Temin, Individual
Lee Tincher, Evolution Technologies Inc.
Mr. Tom Wall, Evolution Technologies Inc.
Ms. Sylvia Webb, Individual

B. Revision History

[optional; should not be included in OASIS Standards]

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