

Resource Availability Query

GJXDM Information Exchange Package
Documentation
Generated: September 15, 2006

Table of Contents

<u>TABLE OF CONTENTS</u>	2
<u>1. PURPOSE AND SCOPE</u>	4
1.1. Scope.....	4
1.2. Purpose:.....	4
<u>2. LIST OF ARTIFACTS</u>	4
<u>3. XML SCHEMAS</u>	4
<u>4. ADDITIONAL IEP PROVISIONS</u>	4
<u>4.1. Additional Property Definitions</u>	5
Document.....	5
Document Sections	5
Components	5
Elements	5
Document Local XML Types	8
Document Local XML Elements.....	9
<u>4.2. Minimal Properties Set</u>	11
<u>4.3. Additional Business Rules</u>	11
4.3.1. Description.....	11
4.3.2. Data Exchanges	11
<u>5. SAMPLES</u>	11
<u>6. DEVELOPMENT</u>	11
6.1. Participants	11
6.2. Process:.....	12
6.3. Development Artifacts:	12
6.3.1. Data Model Diagram	12
6.3.2. Source Documents	13
6.3.3. Revision History:.....	13
<u>7. TESTING AND CONFORMANCE</u>	13

8. FEEDBACK..... 13

1. Purpose and Scope

1.1. Scope

National

1.2. Purpose:

2. List of Artifacts

1. GJXDM Subschema
2. Extension Schema
3. Document Schema
4. XML Document Instance
5. Data Model Diagram
6. XMI Export
7. XML Mappings
8. GIEP Description

3. XML Schemas

GJXDM Version: 3.0.3

Schema Type	File Name
Subset Schema	Resource Availability Query Schema Package\jxdm\3.0.3\jxdm.xsd
Extension Schema	Resource Availability Query Schema Package\ap.xsd
Document Schema	Resource Availability Query Schema Package\Resource Availability Query.xsd

4. Additional IEP Provisions

4.1. Additional Property Definitions

Document

Name	Description
Resource Availability Query	This exchange is triggered when an agency issues a request to other agencies with a mutual aid agreements for available resources based on a particular skill or required equipment. A separate exchange is required to actually request that that unit be dispatched.

Document Sections

Name	Description
Call For Service	
Message Header	
Requesting Agency	An organization that requests emergency management resources from another agency - usually as part of a mutual aid agreement.
Requesting Person	A person authorized to either request emergency management resources or perform cross-system queries on the behalf of their organization
Resource Query	

Components

Name	Description
CFS Details	
CFS Location	Where the requested resource is needed. Completed for Resource requests, returns, etc. Uses the Location message elements to specify the Location
Comment	
Intersection Street	Could be a common intersection of a street or an on/off ramp.
Location Coordinates	
Name	
Organization Identifiers	
Other Location Parameters	
Request Details	
Transaction Defaults	Fields to be populated by the system.
Unit Details	A unit responsible for handling a call for service.

Elements

Name	Description
-------------	--------------------

Resource Availability Query Information Exchange Package Definition

Name	Description
Address Type	Block address, common place or intersection.
Agency ORI	A unique agency identifier as assigned by the NCIC system.
Altitude	The altitude measure of the location.
Altitude Reference Point	e.g. ground level, sea level.
Altitude Unit of Measure	The units of measure for the altitude (e.g. feet, miles, meters)
Building Designation	The name or number of a building.
CFS Date	The call for service date expressed in UDT.
CFS Description	A text description of the call for service.
CFS Status	Current or previous status of a call for service e.g., coming shortly, open, closed.
CFS Time	The call for service time expressed in UDT.
Call Method	Communications mechanism used in call for service (e.g. telephone, cell phone, radio, etc.)
Call Sub Type Text	Text indicating the sub-type of the call (e.g. Robbery Alarm, Fire Alarm, Intrusion Alarm).
Call Type Text	Call type. e.g., Alarm, Burglary, Fire, Accident.
Capability Type Quantity	Quantity / number of items
Capability Unit Of Measure	Unit of Measure associated with the capability type quantity
Cell ID	Text that specifically identifies a particular cell tower.
Cell Sector ID	Text that specifically identifies a particular cell sector.
Comment Date	The date a comment was added to a call for service record.
Comment Text	
Comment Time	The time a comment was added to a call for service record.
Common Place Name	e.g. Mall, Washington Monument, Arlington Cemetary, Central Park.
Coordinate Date	Date that the coordinates were recorded by the device in UTC.
Coordinate Time	Time that the coordinates were recorded by the device in UTC.
Country Code	
County Code	
Datum	Indicates the Lat/Long system, UTM and projection year. Need to research what NENA standard specifies for preferred Coordinate System to use. Specifies the map projection and coordinate system recommended for the display of logitude and latitude coordinates.
Exchange Date	
Exchange Time	
First Name	
Floor Identifier	
Full Address Text	Unparsed address in full.
Full Name	

Resource Availability Query Information Exchange Package Definition

Name	Description
Last Name	
Latitude Degree	
Latitude Minute	
Latitude Second	
Location Description	e.g. may indicate mile marker.
Location Name	
Longitude Degree	
Longitude Minute	
Longitude Second	
Message ID	The local ID that matches the response to the request.
Message Key	Indicates the specific kind of service being requested. Usually agreed upon by the various interfaces.
Middle Name	
Municipality Name	
Name Suffix	
Operator ID	May be name, employee id, initials, or terminal id etc.
Organization ID	An alphanumeric identifier used to uniquely identify an organization, agency or court.
Organization Name	<p>The name of the dispatch requesting agency (typically an alarm central station) or the responding agency (typically a police or fire department or central dispatch point) or responder.</p> <p>Organization Name has to be unique across all requestors and responders if we want to use it as an identifier. Otherwise a separate Organization Id will have to be used.</p>
Organization Type	Examples include business, criminal organization, terrorist organization
P.O. Box	
Postal Code	
Request Comments	Additional information providing text details about the request for resources.
Requested Action	Action for first responder or other receiving organization (e.g. dispatch first responder, notification only).
Requested Quantity	The number of the equipment identified in other EMResource elements that has been requested.
Resource Capability Details	<p>examples include:</p> <p>Employ explosive tools to conduct specific or general disruption Demolition Kit Bomb Technician Hand Tools</p>
Resource Category Text	Category of resource, e.g. Firefighting, Law Enforcement
Resource Component Name	Equipment, Personnel, Vehicle, Aircraft

Resource Availability Query Information Exchange Package Definition

Name	Description
Resource Description Text	Free Text alternative to "Resource Keyword"
Resource Keyword	Any value from a discrete managed list, used to specify a resource, in the form: <ul style="list-style-type: none"> · resourcekeyword · valueListUrn · value · resourcekeyword <p>Where the content of valueListUrn is the Uniform Resource Name of a published list of values and definitions, and the content of value is a string denoting the value itself.</p>
Resource Kind Text	Equipment, Team
Resource URN Value	Automated Resource Management System FEMA resource typing structure. Uniform Resource Name of a certified list maintained by the Community of Interest (COI) for the value referenced. Facilitates link to ARMS structured managed list
Room Number Text	Free form text field describing a location e.g. apartment 218, Suite 312.
Special Requirements Text	A description of any special needs related to the requested resource (e.g. must carry protective gear)
Speed	Speed that the coordinates recording device was moving.
Speed Unit Of Measure	miles/hour km/hour ft/sec knots
State Code	
Street Name	The address of the site.
Street Number	
Street Post Directional	
Street Pre Directional	
Street Type	e.g. Ave., St., Blvd.
Subdivision Name	Formal or informal name given to a residential or commercial area. (e.g. Downtown Business District, LoDo)
Submission Date	
Submission Time	
Terminal ID	Uniquely identifies a computer terminal device.
Uncertainty Distance	A confidence measure derived from the number of cell sites, distance of the coordinates recorded from the cell site, accuracy of measurement of the coordinates and is typically expressed in meters.
Unit Status Date	

Document Local XML Types

Name	Description
ARMSResourceComponentCapabilityDetailsTy	

Resource Availability Query Information Exchange Package Definition

Name	Description
pe (SuperType)	
ARMSResourceComponentCapabilityMetricItem (SuperType)	
ARMSResourceComponentType (SuperType)	
ActivityType (ActivityType)	A structure that describes details about an activity or process that occurs
CellLocationServiceType (SuperType)	
EMContactRoleCodeSimpleType	
EMResourceType (OrganizationType)	
OrganizationType (OrganizationType)	
ResourceRequestPersonType (PersonType)	A structure containing elements relating to the person authorized to either request emergency management resources or perform cross-system queries on the behalf of their organization
ResourceComponentCapabilityTypeCodeType (TextType)	
ServiceCallType (ServiceCallType)	
ValueType (SuperType)	

Document Local XML Elements

Name	Description
ARMSResourceCategoryText (TextType)	Automated Resource Management System FEMA resource typing structure. See: http://www.fema.gov/nims/mutual_aid.shtm
ARMSResourceComponent (ARMSResourceComponentType)	
ARMSResourceComponentCapabilityDetails (ARMSResourceComponentCapabilityDetailsType)	
ARMSResourceComponentCapabilityMetricItem (ARMSResourceComponentCapabilityMetricItem)	
ARMSResourceComponentName (TextType)	Automated Resource Management System FEMA resource typing structure. See: http://www.fema.gov/nims/mutual_aid.shtm
ARMSResourceKindText (TextType)	Automated Resource Management System FEMA resource typing structure. See: http://www.fema.gov/nims/mutual_aid.shtm
ARMSURNValue (ValueType)	Automated Resource Management System FEMA resource typing structure. Uniform Resource Name of a certified list maintained by the Community of Interest (COI) for the value referenced. Facilitates link to ARMS structured managed list
CFSCComment (ActivityType)	Comments about a particular call for service. Any number of comments may be associated with a call for service.
CFSRRequestedActionText (TextType)	Action for first responder or other receiving organization (e.g. dispatch first responder, notification only).

Resource Availability Query Information Exchange Package Definition

Name	Description
CallSubTypeText (TextType)	Text indicating the sub-type of the call (e.g. Robbery Alarm, Fire Alarm, Intrusion Alarm).
CallTypeText (TextType)	Call type. e.g., Alarm, Burglary, Fire, Accident.
CapabilityTypeQuantity (QuantityType)	See: http://www.fema.gov/nims/mutual_aid.shtm - Quantity / number of items
CapabilityTypeUnitOfMeasureText (TextType)	See: http://www.fema.gov/nims/mutual_aid.shtm - Unit of Measure associated with the capability type quantity.
CellID (IDType)	
CellLocationService (CellLocationServiceType)	Provides information about the location of a cellular phone.
CellSectorID (IDType)	Identifies the sector of a cellular network
EMResource (EMResourceType)	
RecordedSpeedRate (RateType)	The speed rate of the target as measured by the GPS.
RequestCommentText (TextType)	Additional information providing text details about the request for resources.
RequestQuantityNumber	The number of the equipment identified in other EMResource elements that has been requested.
ResourceComponentCapabilityTypeCode (ResourceComponentCapabilityTypeCodeType)	Automated Resource Management System FEMA resource typing structure. See: http://www.fema.gov/nims/mutual_aid.shtm
ResourceDescriptionText (TextType)	Free Text alternative to "Resource Keyword" (or may be used in addition). Any description of resource or resource characteristics, situation requiring resource assistance, statement of mission resource must satisfy, or RFI text.
ResourceKeywordValue (ValueType)	Any value from a discrete managed list, used to specify a resource, in the form: <resourcekeyword> <valueListUrn>valueListUrn</valueListURN> <value>value</value> </resourcekeyword> where the content of valueListUrn is the Uniform Resource Name of a published list of values and definitions, and the content of value is a string denoting the value itself.
ResourceRequestPerson (ResourceRequestPersonType)	A person authorized to either request emergency management resources or perform cross-system queries on the behalf of their organization
ResourceRequestingOrganization (OrganizationType)	An organization that requests emergency management resources from another agency - usually as part of a mutual aid agreement.
ResourceSpecialRequirementsText (TextType)	A description of any special needs related to the requested resource (e.g. must carry protective
ServiceCall (ServiceCallType)	Details about a call for service received from a person alerting an authority of a situation. (ServiceCallType)

Name	Description
TerminalID (IDType)	Uniquely identifies a terminal device.
ValueText (TextType)	A Value from a certified list maintained by the Community of Interest (COI) for the referenced element.

4.2. Minimal Properties Set

4.3. Additional Business Rules

4.3.1. Description

· The request for available resources may not be tied to a call for service if the query is for pre-planning purposes.

4.3.2. Data Exchanges

1. During the In-process state, at the Request Resource Availability event, If requesting agency requires special skill or equipment & If special skill or equipment is not available in house the Requesting Agency sends the Resource Availability Query to the External Agency for the Determine Resource Availability event in the In-process state.

5. Samples

6. Development

6.1. Participants

Martin Moody-APCO-APCO
 Aaron Gorell-URL Integration-Consultant
 Dominique Caspers-URL Integration-Consultant
 Suzette McLeod-IJIS Institute-IJIS
 Alan Harker-Spillman-Industry
 ChengLu Meng-Tritech-Industry
 Neil Kurlander-Asynchrony Solutions-Industry
 Pedro Quintero-Sungard OSSI-Industry
 Tom Dewey-Advanced Justice Systems-Industry
 Dan Murray-IT management Section Commander, Arlington (VA) Police Department-LEITSC
 Dave Mulholland-US Park Police-LEITSC

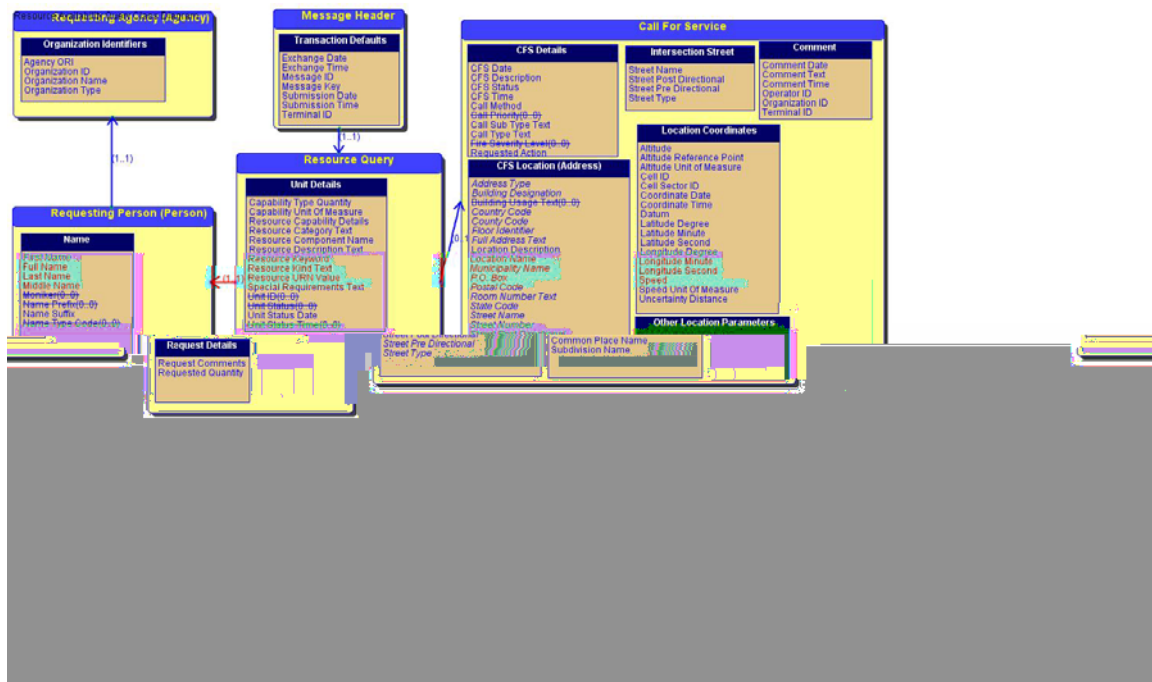
Dina Jones-CAD Manager, Storycounty (IA) Sheriffs Department-LEITSC
 Heather Ruzbasan-IACP-LEITSC
 Matt Snyder-IACP-LEITSC
 Judy Harrison-Intergraph Corporations-IJIS
 Len Bullard-Intergraph Corporations-IJIS
 Bruce Kelling-Bask Entrprises-Industry

6.2. Process:

This IEPD modeled during a series of sessions that focused on defining the scope of CAD related exchanges using the JIEM Exchange Modeling process. This discussion was followed-up with identification of the elements that would be required for each document identified during exchange modeling. These data requirements were documented using a domain model. The CAD group met twice: the first in Ashburn, VA on March 21, 2006 and the second in Denver on May 16, 2006.

6.3. Development Artifacts:

6.3.1. Data Model Diagram



6.3.2. Source Documents

6.3.3. Revision History:

7. Testing and Conformance

8. Feedback