

Unit Status Update

GJXDM Information Exchange Package
Documentation
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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	Unit Status Update Schema Package\jxdm\3.0.3\jxdm.xsd
Extension Schema	Unit Status Update Schema Package\ap.xsd
Document Schema	Unit Status Update Schema Package\Unit Status Update.xsd

4. Additional IEP Provisions

4.1. Additional Property Definitions

Document

Name	Description
Unit Status Update	This exchange is triggered by an update of unit status in the CAD but may be limited by the frequency indicated in the subscription request (Request for Unit Status Update).

Document Sections

Name	Description
Associated Agency	Agency that owns the resource
Message Header	
Resource	

Components

Name	Description
Location Coordinates	
Organization Identifiers	
Transaction Defaults	Fields to be populated by the system.
Unit Details	A unit responsible for handling a call for service.

Elements

Name	Description
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)
Capability Type Quantity	Quantity / number of items
Capability Unit Of Measure	Unit of Measure associated with the capability type quantity
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.
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

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Name	Description
	system recommended for the display of longitude and latitude coordinates.
Exchange Date	
Exchange Time	
Latitude Degree	
Latitude Minute	
Latitude Second	
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.
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
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 Description Text	Free Text alternative to "Resource Keyword"
Resource Keyword	<p>Any value from a discrete managed list, used to specify a resource, in the form:</p> <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

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Name	Description
	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
Special Requirements Text	A description of any special needs related to the requested resource (e.g. must carry protective gear)
Submission Date	
Submission Time	
Unit ID	Identifier that uniquely identifies a unit.
Unit Status	On route, arrived, available, delayed, etc.
Unit Status Date	
Unit Status Time	

Document Local XML Types

Name	Description
ARMSResourceComponentCapabilityDetailsType (SuperType)	
ARMSResourceComponentCapabilityMetricItem (SuperType)	
ARMSResourceComponentType (SuperType)	
EMContactRoleCodeSimpleType	
EMResourceType (OrganizationType)	
OrganizationType (OrganizationType)	
ResourceComponentCapabilityTypeCodeType (TextType)	
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

Name	Description
	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
AssociatedAgency (OrganizationType)	Agency that owns the resource
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.
EMResource (EMResourceType)	
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.
ResourceID (IDType)	This identifier (if available) must follow the resource / resource description during the entire trail of messages about that resource. May be selected via the <Resource Keyword> if available.
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.
ResourceSpecialRequirementsText (TextType)	A description of any special needs related to the requested resource (e.g. must carry protective
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

4.3.2. Data Exchanges

1. During the In-process state, at the Notification event, If external agency requested to be updated of unit status & If unit status changes the First Responder sends the Unit Status Update to the External Agency for the Update Unit Status 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

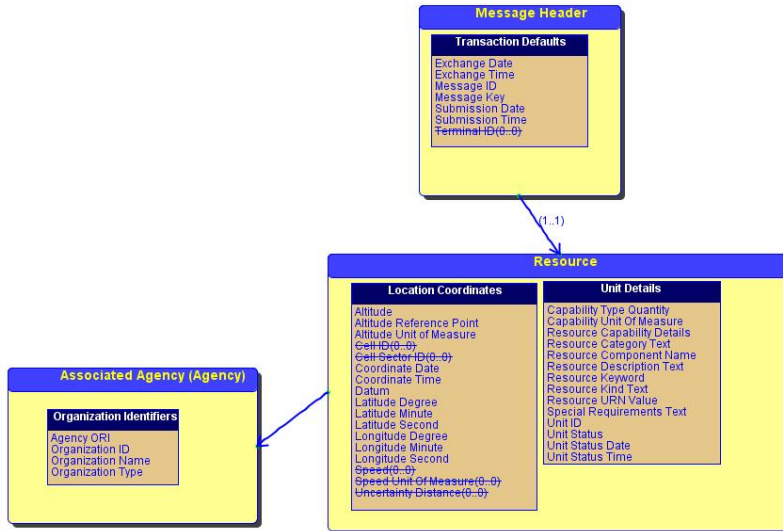
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documented using a domain model. The CAD group met twice: the first in Ashburn, VA on March 21, 2006 and the second in Denver on May 16, 2006.

6.3. Development Artifacts:

6.3.1. Data Model Diagram

Unit Status Update Class Diagram



6.3.2. Source Documents

6.3.3. Revision History:

7. Testing and Conformance

8. Feedback