

CAD To RMS Transfer

GJXDM Information Exchange Package
Documentation
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Table of Contents

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

8. FEEDBACK.....3

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	CAD To RMS Transfer Schema Package\jxdm\3.0.3\jxdm.xsd
Extension Schema	CAD To RMS Transfer Schema Package\ap.xsd
Document Schema	CAD To RMS Transfer Schema Package\CAD To RMS Transfer.xsd

4. Additional IEP Provisions

4.1. Additional Property Definitions

Document

Name	Description
CAD To RMS Transfer	

Document Sections

Name	Description
Associated Agency	Agency that owns the resource
Call For Service	
Caller	A person who calls an emergency number (e.g. 911) to request emergency services.
Message Header	
Originating Agency	Agency that originally took the call for service.
Resource	
Revision History	
Subject	
Unit Action	Details the actions taken by a responding resource
Vehicle	
Victim	
Witness	

Components

Name	Description
Additional Caller Details	
Address	
Agency Identifier	
CFS Details	
CFS Identifiers	
CFS Location	Where the requested resource is needed. Completed for Resource requests, returns, etc. Uses the Location message elements to specify the Location
Caller Contact	
Caller Name	
Case Identifiers	Populated if these numbers have been assigned by the CAD system. Each agency responding to an incident may have their own case identifiers. However, for a CAD to RMS transfer only that case number that is relevant to the receiving agency is passed.
Comment	
Contact	
Contact Name	
Disposition	

CAD To RMS Transfer Information Exchange Package Definition

Name	Description
Employer	
Intersection Street	Could be a common intersection of a street or an on/off ramp.
Location	
Location Coordinates	
Name	
Organization Identifiers	
Other Location Parameters	
Person Cautions	
Physical Characteristics	Identify scars, marks, tatoos and other distinguishing physical characteristics. This can include missing limbs, large ears, etc.
Physical Description	
Registration	Registration information for any form of conveyance. This would include airplanes, boats, automobiles, etc.
Residence Address	
Revision Details	
Transaction Defaults	Fields to be populated by the system.
Unit Action Details	Details about the actions taken by an emergency resouse responding to a call for service.
Unit Details	A unit responsible for handling a call for service.
Vehicle Identification	
Work Address	

Elements

Name	Description
Action Code	A code description a particular action taken by a responding emergency resource.
Action Comment	Text description of a particular action taken by a responding emergency resource.
Address Type	Block address, common place or intersection.
Age	The age of a person. If included as part of a range, the minimum age.
Agency Name	The official name of a justice-related agency
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)
Area Code	Number Plan Area
Associated Organization Name	The organization in which the caller is representing (e.g. Law Enforcement Agency, Poison Control, Suicide Hotline).
Badge Number	A law enforcement officer badge number.
Building Designation	The name or number of a building.
Building Usage Text	Describes the usage of the building, e.g. Gun Shop, Nuclear Power Plant

CAD To RMS Transfer Information Exchange Package Definition

Name	Description
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.
CMV Weight	
Call Method	Communications mechanism used in call for service (e.g. telephone, cell phone, radio, etc.)
Call Priority	The priority assigned to the call based on the type of call (burglary, shooting, etc.) and other additional information provided by the caller.
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.
Caller Type	e.g. Law Enforcement Officer, Victim, Witness, Suspect.
Capability Type Quantity	Quantity / number of items
Capability Unit Of Measure	Unit of Measure associated with the capability type quantity
Caution Text	
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.
Commercial Identifier	
Commercial Identifier Type	
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	
Date	
Date of Birth	
Datum	<p>Indicates the Lat/Long system, UTM and projection year. Need to research what NENA standard specifies for preferred Coordinate System to use.</p> <p>Specifies the map projection and coordinate system recommended for the display of logitude and latitude coordinates.</p>
Description Text	e.g. clothing
Disposition Code	
Disposition Date	

CAD To RMS Transfer Information Exchange Package Definition

Name	Description
Disposition Description	
Disposition Time	
E-Mail	
Exchange Date	
Exchange Time	
Expiration Date	
Eye Color Code	
Fire Severity Level	Indicates the severity of a fire and the corresponding response based on procedure. (e.g. three alarm fire)
First Name	
Floor Identifier	
Full Address Text	Unparsed address in full.
Full Name	
Hair Color Code	
Height Measure	
Last Name	
Latitude Degree	
Latitude Minute	
Latitude Second	
Location Description	e.g. may indicate mile marker.
Location Name	
Longitude Degree	
Longitude Minute	
Longitude Second	
Make Code	
Mark Description	
Mark Type	
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	
Model Code	
Model Year	
Moniker	e.g. street name, screen name
Municipality Name	
Name Prefix	
Name Suffix	
Name Type Code	Describes the kind of name (e.g. moniker, true name, aka, maiden name, etc.).
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	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.

CAD To RMS Transfer Information Exchange Package Definition

Name	Description
	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.
Organization Type	Examples include business, criminal organization, terrorist organization
Originating Agency CFS Number	A unique identifier of the Originating CFS.
P.O. Box	
Plate Issuing Authority	
Plate Number	May be complete or partial
Plate Type	e.g. temporary plates, manufacturer, tail number, dealer plates, hull number.
Postal Code	
Primary Color Description Text	
Property ID	Alphanumeric unique identifier
Property ID Type Code	Indicates the property id type. e.g. Serial Number, Owner applied number
RMS Incident Number	A number that may be generated by the CAD system. A seperate RMS incident number may be generated for each agency responding to the CFS.
Race Code	
Reference Number	e.g. warrant number, incident number, etc. A number that references another RMS Incident Number.
Requested Action	Action for first responder or other receiving organization (e.g. dispatch first responder, notification only).
Resource Capability Details	examples include: Employ explosive tools to conduct specific or general disruption Demolition Kit Bomb Technician Hand Tools
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	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

CAD To RMS Transfer Information Exchange Package Definition

Name	Description
	Resource Name of a certified list maintained by the Community of Interest (COI) for the value referenced. Facilitates link to ARMS structured managed list
Revision Comment	
Revision Date	
Revision Time	
Revision Type	What aspect of the CFS has changed (e.g. incident address, incident type).
Room Number Text	Free form text field describing a location e.g. apartment 218, Suite 312.
Sex	
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	
Subscriber ID	Last 4 digits of a phone number.
Telephone City Code	
Telephone Country Code	
Telephone Number Extension	
Telephone Number Type	Cell Phone, Fax, Land Line etc
Telephone Prefix	AKA NXX Refers to the exchange which is the three digits following the area code
Terminal ID	Uniquely identifies a computer terminal device.
Time	
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 ID	Identifier that uniquely identifies a unit.
Unit Status Date	
Vehicle Classification	
Vehicle Description	This may indicate the type of vehicle (e.g. airplane, truck, car, boat).
Vehicle Identification Number	
Vehicle Ownership Text	

Name	Description
Vehicle Secondary Color Code	
Vehicle Style Code	
Web Address	
Weight Measure	

Document Local XML Types

Name	Description
ARMSResourceComponentCapabilityDetailsType (SuperType)	
ARMSResourceComponentCapabilityMetricItem (SuperType)	
ARMSResourceComponentType (SuperType)	
ActivityType (ActivityType)	A structure that describes details about an activity or process that occurs
CFSCallerLocationType (LocationType)	
CellLocationServiceType (SuperType)	
DispositionType (DispositionType)	
EMContactRoleCodeSimpleType	
EMResourceType (OrganizationType)	
LocationType (LocationType)	
OrganizationType (OrganizationType)	
PersonType (PersonType)	
ResourceComponentCapabilityTypeCodeType (TextType)	
RevisionHistoryType (ActivityType)	
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

CAD To RMS Transfer Information Exchange Package Definition

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
CFSCallerLocation (CFSCallerLocationType)	Describes the location of a CFS caller with either a street address or geographic coordinates.
CFSCComment (ActivityType)	Comments about a particular call for service. Any number of comments may be associated with a call for service.
CFSCRequestedActionText (TextType)	Action for first responder or other receiving organization (e.g. dispatch first responder, notification only).
CallPriorityText (TextType)	The priority assigned to the call based on the type of call (burglary, shooting, etc.) and other additional information provided by the caller.
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.
CallerTypeText (TextType)	e.g. Law Enforcement Officer, Victim, Witness, Suspect.
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
Disposition (DispositionType)	A result or outcome that is the product of handling, processing, or finalizing a charge, case, activity or entity. Includes law enforcement, prosecutorial, and court dispositions.
DispositionTime	Time a disposition occurred
EMResource (EMResourceType)	
EMUnitAction (ActivityType)	Details about the actions taken by an emergency resource responding to a call for service.
FireSeverityText (TextType)	Indicates the severity of a fire and the corresponding response based on procedure. (e.g. three alarm fire)
OriginatingAgencyOrganization (OrganizationType)	Details about a unit which conducts some sort of business or operations.
RMSAlternateIdentifier (IDType)	e.g. warrant number, incident number, etc. A number that references another RMS Incident Number.
RMSIncidentIdentifier (IDType)	A number that may be generated by the CAD

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Business Element	XML Type	XML Element	Min Constraint	Max Constraint
	ype			

4.3. Additional Business Rules

4.3.1. Description

· Implimenters may want to filter the data based on the receiving agency, for example fire would not receive Law Enforcement Unit update information.

4.3.2. Data Exchanges

1. During the In-process state, at the Update CFS Record event, If CFS is closed the PSAP sends the CAD To RMS Transfer to the Records Management System for the Create Incident Record event in the Closed state.

5. Samples

6. Development

6.1. Participants

Aaron Gorell - URL Integration
 Dominique Caspers - URL Integration
 Suzette McLeod - IJIS Institute
 Christine Spoon (was Mgarner) - Sungard OSSI
 Neil Kurlander - Asynchrony Solutions
 Steve Barger - Intergraph Corporations
 Steve Hoggard- Spillman
 Tom Dewey - Advanced Justice Systems
 Vincent Tortoreillo - Enforsys, Inc.
 Dave Mulholland - Commander, IT & Communications United States Park Police
 D.C.
 Gary Vest - Chief of police, Powell (OH) Police Department
 Jim Slater - Chief Information Officer, Massachusetts Executive Office of Public
 Safety
 Mike Haslip - Chief of Police, Blaine (WA) Police Department
 Bill Cade - APCO
 Martin Moody - APCO
 Heather Ruzbasan - IACP
 Matt Snyder - IACP

6.2. Process:

This IEPD modeled during a series of sessions that focused on defining the scope of RMS 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 RMS group met once in Las Vegas, NM on April 11, 2006.

6.3. Development Artifacts:

6.3.1. Data Model Diagram

CAD To RMS Transfer Class Diagram



6.3.2. Source Documents

6.3.3. Revision History:

7. Testing and Conformance

8. Feedback