APCO NENA 2.105.1-2017

NG9-1-1 Emergency Incident Data Document (EIDD)

Standard written by the Association of Public-Safety Communications Officials (APCO) International Standards Development Committee (SDC) –The Emergency Incident Data Document (EIDD) Workgroup. Standard approved by the SDC on October 1, 2016 and received final approval by the American National Standards Institute (ANSI) on January 3, 2017.

Abstract: The Emergency Incident Data Document (EIDD) provides a standardized, industry-neutral National Information Exchange Model (NIEM) conformant (XML-based) specifications for exchanging emergency incident information to agencies and regions that implement NG9-1-1 and Internet Protocol (IP) based emergency communications systems. Emergency incident information exchanges supported by the EIDD include exchanges between disparate manufacturers' systems located within one or more public safety agencies and with other incident stakeholders.

Keywords: CAD (Computer Aided Dispatch) to CAD, CAD to RMS (Records Management System), EIDD, Emergency Incident Data Document, Incident Data Exchange, Next Generation 9-1-1 (NG9-1-1), Functional Element (FE), NIEM, Automatic Aid, public safety

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Executive Overview*

Evolution and background

The concept of the EIDD originated during discussions of the joint NENA/APCO NG9-1-1 Public Safety Answering Point (PSAP) WG. The first meeting of the Emergency Incident Data Object WG was held on January 11, 2010. The Emergency Incident Data Object was renamed the EIDD and became a separate working group, originally within the NENA's Agency Systems Committee, and more recently under APCO's SDC. From its beginning, the EIDD was a joint APCO and NENA development effort.

Purpose

The EIDD was originally developed to support interoperable data exchanges within and between i3-conformant public safety communication centers. The initial goal of the EIDD was to replace the serial interface (ALI spill) between the Customer Premise Equipment (CPE) and CAD. The EIDD has evolved from these humble beginnings to support a full complement of interoperable emergency incident data exchanges between geographically dispersed FEs as well as between a variety of other public safety systems (CAD to CAD, CAD to RMS, CAD to mobile data, etc.). Undoubtedly, as the EIDD further evolves and its existence becomes more widely known, it will be used to support an even greater variety of public safety related data exchanges.

Usage

The EIDD provides a standard for exchanging emergency incident related information. The EIDD represents the state of an emergency incident as known by a functional element or a single agency. An EIDD should be generated and exchanged among interested systems and stakeholders anytime that a significant change occurs in the incident's state. For example, among other possible triggers, an EIDD is generated and distributed anytime a 9-1-1 call is answered, a call taker enters notes about an incident, an emergency incident's location is established or changed, an incident is classified or reclassified (structure fire, vehicle accident with injuries, assault, etc.), emergency responders are dispatched, emergency responders arrive on scene, and when an emergency incident is closed with a final disposition.

The EIDD provides information about the current state of an incident. It does not provide historical information about the incident. The Logging Service (see NENA-STA-010) is used to obtain historical information about an incident.

An EIDD is usually associated with an active emergency incident. To support mutual and automatic aid, an EIDD can be used to report changes in an emergency responder's state without that EIDD being associated with an incident.

EIDDs may contain sensitive and confidential information and should never be exchanged with another entity without first authenticating that entity and establishing its priviliges (see NENA-STA-010, section 6.5: Authorization and Data Rights Management) to view the information contained in the EIDD. EIDDs may be filtered to remove sensitive and confidential information based on the authenticated privileges of the entity receiving the EIDD.

Acronyms and Abbreviations*

The following Acronyms are used in this document:

Acronym	Description
ANS	American National Standard
ANSI	American National Standards Institute
APCO	Association of Public-Safety Communications Officials
CAD	Computer Aided Dispatch
CPE	Customer Premise Equipment
CSAA	Central Station Alarm Association
E9-1-1	Enhanced 9-1-1
EIDD	Emergency Incident Data Document
ESInet	Emergency Services IP Network
FE	Functional Element
IEPD	Information Exchange Package Document
IMR	Interactive Media Response
IP	Internet Protocol
MDC	Mobile Digital Communications
NENA	National Emergency Number Association
NIEM	National Information Exchange Model
NG9-1-1	Next Generation 9-1-1
NRS	NENA Registry System
RMS	Records Management System
SDC	Standards Development Committee
SIP	Session Initiation Protocol
TBD	To Be Developed
TCP	Transmission Control Protocol
TLS	Transport Layer Security
URL	Uniform Resource Locator
WG	Work Group

The following Terms and Definitions are used in this document:

Term	Definition
Additional Data	Data that further describes the nature of how the call was placed, the person(s) associated with the device placing the call, or the location the call was placed from.
Additional Data Repository (ADR)	A data storage facility for Additional Data. The ADR dereferences a URI passed in a Call-Info header and returns an Additional Data object block.
Emergency Incident Data Document (EIDD)	A standard format and content definition for exchanging emergency incident related data.
Information Exchange Package Document (IEPD)	In NIEM, an IEPD, or exchange specification, is a collection of mutually supportive artifacts (including XML schema) that define the content of a specific information exchange.
Report Number	A number associated with an emergency incident that once generated indicates that a follow up report or investigation will be associated with the incident. May also be known as: case number, fire incident number, department report numbers and other variations depending on the types of service agencies involved and local customs. Typically, the report number is sequential within a year and also identifies the agency for which it is issued. Within an agency, the report number is globally unique. More than one report number may be associated with a single incident.

Chapter 1   Introduction*

1.1.   Scope

There are many FEs within an NG9-1-1 system that are used to process emergency calls. Some of these FEs may be within a specific agency, in another agency or elsewhere in an Emergency Services IP Network (ESInet). In many cases, an emergency call is related to, or results in the creation of an "incident" as defined in NENA-STA-010 [3.1]. As public safety communication center personnel process emergency calls for service and their associated incidents, new information about the incidents is obtained. There are many sources available to communication center personnel for obtaining new incident information during call handling, incident creation, dispatch, incident monitoring, and post incident analysis processes. Newly gathered information, as well as changes in incident status, must often be passed on to other FEs, other involved agencies, and frequently to non-emergency entities authorized to receive emergency incident information. As agencies and regions move forward with implementing NG9-1-1 and IP based emergency communications systems, it is critical that they adhere to a standardized, industry neutral format for exchanging emergency incident information between disparate manufacturers' systems located within one or more public safety agencies, and with other incident stakeholders. The EIDD provides this capability.

The NENA/APCO EIDD ANS provides a vendor-neutral method for sharing emergency incident information between and among authorized entities and systems. The EIDD ANS is structured as a NIEM-conformant Information Exchange Package Document (IEPD). The EIDD IEPD describes the specific information exchanged between senders and receivers of EIDDs. It includes the EIDD XML Schema, a mapping spreadsheet, sample XML instances, other IEPD artifacts, and this document, which contains the business rules defining the contents of EIDDs. This document describes the data components included in the EIDD ANS, their relationships to each other, the data elements contained within each data component, and where applicable, the initial values for registries that control the available values for appropriate data elements.

1.2.   Purpose

The EIDD ANS defines the specific incident elements, their attributes, allowable values, and data structures in a NIEM-conformant XML schema and associated documents and files (artifacts). The elements exchanging the data defined in the EIDD may be physically or virtually connected to each other. The FEs may belong to one or more disparate manufacturers' systems located within the same public safety agency or within different agencies.

Figure 1.1 EIDD Structure

Figure 1.1 displays the logical organization of the different data components that comprise the EIDD. It provides an overview of how EIDDs are structured. This diagram may change over time as the EIDD ANS is revised and or updated with future releases of the ANS.
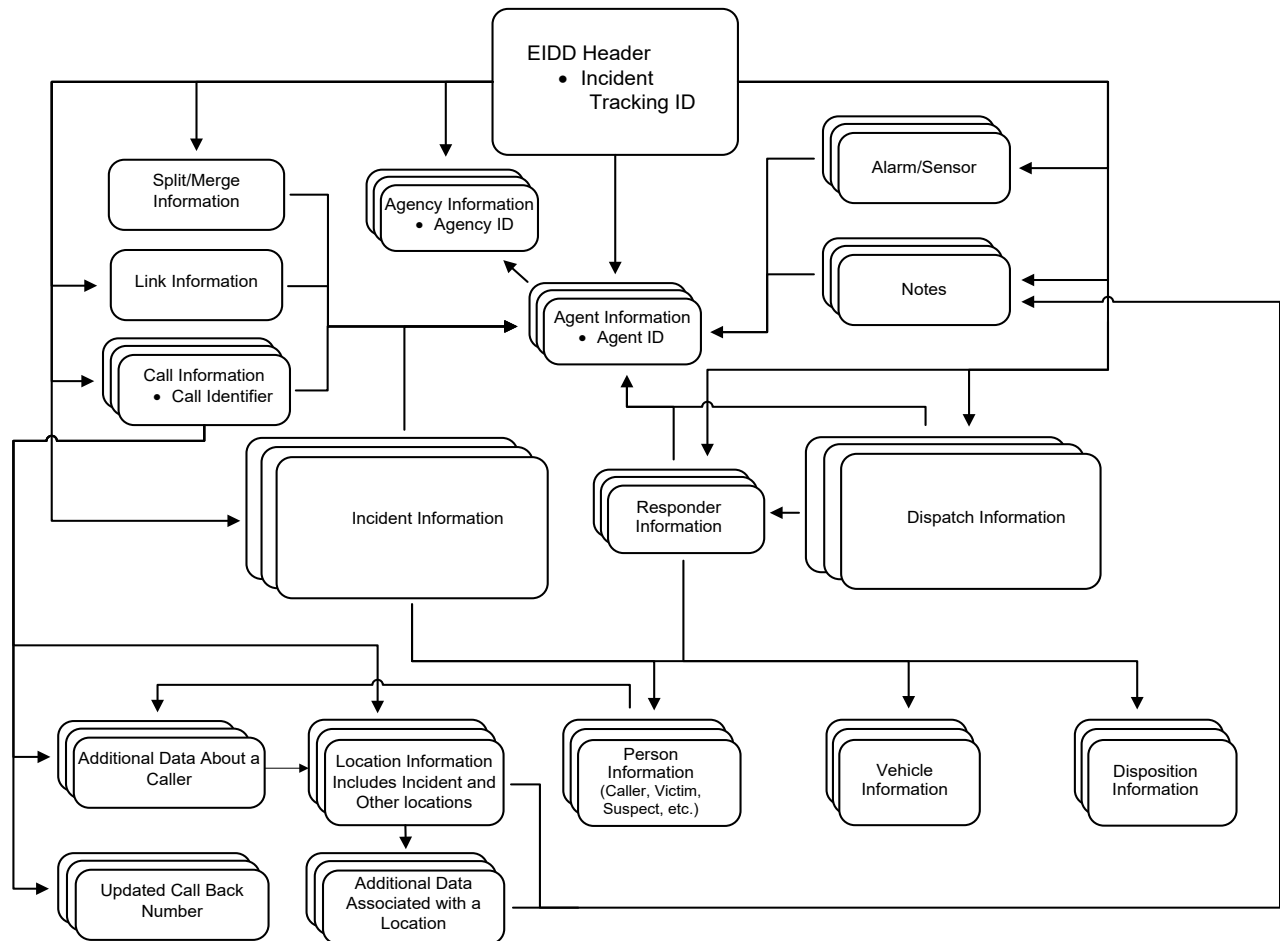
1.3. Operations Impacts Summary

A standardized format for electronically exchanging emergency incident information will provide stakeholders with many operational benefits. These benefits are similar to those realized when agencies implement a local or regional "CAD to CAD" exchange. Use of the EIDD at a national, regional, and local level and within communication centers themselves is critical to the implementation of NG9-1-1 (i3) compliant systems [3.1].

1.4. Technical Impacts Summary

As with the implementation of any technical standard, the EIDD ANS will have significant impact. Initially, all FEs involved in the exchange of emergency incident information (e.g. call handling, logging, dispatch, etc.) will need to be modified to support EIDD transactions. External elements that exchange emergency incident information will also need to be modified to support EIDD transactions. Minimal impacts are expected on the ESInet or other Enhanced 9-1-1 (E9-1-1) IP based networks. However, they will need to be compatible with the EIDD structure in order to carry EIDDs from one element to another.

1.5. Security Impacts Summary

EIDDs carry confidential information and they must be transmitted over secure transports such as TLS protected TCP, and only to/from i3 authenticated FEs and systems[3.1]. EIDDs accessible to authenticated FEs and other systems must have their contents filtered to contain only data authorized to be transmitted to those systems by the data owner's policy. Furthermore, FEs and systems that pass EIDDs or their contents along to other FEs and systems must filter those EIDD instances based on the authentication of the receiving FEs and other systems to contain only data authorized to be transmitted to those FEs and systems by the data owner's policy.

1.6. Document Terminology

The term "shall" is used throughout this document to indicate normative requirements and to differentiate from those parameters that are recommendations. Recommendations are identified by the words "should", "may", "desirable" or "preferable".

Recommendation for Additional Development Work

A protocol must be specified to exchange EIDDs between FEs and other systems within and between agencies on an ESInet. Queries for EIDDs and appropriate responses must be developed in order to support NG9-1-1 related functions and capabilities. Future versions may expand the EIDD to include new data components and data elements, provide additional allowable registry values, or modified to support additional emergency incident related exchanges such as the transfer of a patient's medical diagnostics, administered procedures, and medical status between transporting ambulances and receiving hospitals. All future data exchanges using the EIDD ANS should conform to applicable privacy regulations.

1.7. Document Organization

Chapter 2 (Data Associated with an Emergency Incident) identifies the data elements associated with an emergency incident grouped into various data components. The initial (heading) section of each data component contains the following information blocks:

- Data Component – the name of the data component (e.g., EIDD Header, Agency Information, etc.)
- Data Component Use – Identifies whether the data component is required or optional in EIDD instances.
- Minimum Number – the minimum occurrences of the data component allowed in EIDD instances.

- Maximum Number – the maximum occurrences of the data component allowed in EIDD instances.
- Child Of: Identifies the potential parents of which a data component can be a child. See the parent component to determine the relationship between the child and parent.
- Data Component Description – a general description of the purpose and contents of the data component.

The above information blocks are followed by a table that identifies the data elements included in the data components. Note that entire data components are included as a complex data element within their parent data component. In this case, the description defines the relationship between the two data components.

The following information is included for each data element:

- Data Element – Descriptive name of the data element.
- Use – identifies whether the data elements are required, optional or conditional. Data elements that are conditional describe the conditions when they are required and when they are optional. Required data elements can exist within optional data components. Required data elements of an optional data component are only required if the data component is included in an EIDD instance. For example, not all EIDD instances will contain a Dispatch Information data component since sufficient information to dispatch emergency resources to the incident are not yet available or assigned resource statuses have not changed. However, if an EIDD instance contains a Dispatch Information data component, that data component must always contain the "Incident Type– Common" data element.

  Where applicable, the "Use" column also includes normative conditions that specify how the data element shall be used and/or specific format requirements.

- Min # – the minimum occurrences of the data element that may be included in an EIDD that includes the data component.[1]
- Max # – the maximum occurrences of the data element that may be included in an EIDD that includes the data component.[2] Note that a value of "*" indicates an unbounded number of occurrences are supported.
- Relative XPath – the last part of the path that defines the Data Element name within the EIDD schema.
- Description – a general description of the data element. For complex data elements (data components), the description identifies the relationship between the two data components.
- Reason for Need – the reason for including the data element in the EIDD

Chapter 3 (Works Cited) includes sources and references that can be used to obtain additional information about related NENA and APCO standards, NIEM, and global justice terminology and standards.

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[1] The minimum and maximum numbers for a data element are different than the minimum and maximum numbers of the data component in which the data element is contained. For example, there may be multiple instances of a Dispatch Information data component (fire and police agencies responded to a single incident). However, each of the Dispatch Information data components can only contain one Dispatched Agency ID.

[2] Ibid.

Chapter 4 (EIDD Registries) identifies registries that define the domain of values that must be used for specific EIDD elements.

Appendix 1 (Required NIEM Core Person Data Elements) identifies the NIEM core 2.0 Person Type data elements that shall be supported by public safety/NG9-1-1 applications that are conformant with the EIDD ANS.

Appendix 2 (Required NIEM Core Vehicle Data Elements) identifies NIEM core 2.0 Vehicle Type data elements that shall be supported by public safety/NG9-1-1 applications that are conformant with the EIDD ANS.

Chapter 2   Data Associated with an Emergency Incident

The ANS EIDD schema corresponds to and is defined by this section of the document. The EIDD schema shall not be changed without first updating this chapter of the document and then making the corresponding updates, if any, to the schema.

2.1.   EIDD Header Data Component

- **Data Component Use:** The EIDD Header Data Component shall be present in all EIDD instances
- **Child Of:** None

- **Minimum Number:** 1
- **Maximum Number:** 1

This Data Component shall always be present. Only one EIDD Header shall be contained within a single EIDD. The EIDD Header identifies key information about the emergency incident.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Incident Tracking Identifier	Conditional: Shall be present if referencing an active incident[3] Shall comply with the format defined for an Incident Tracking Identifier in NENA-STA-010 [3.1] .	0	1	EmergencyIncidentDataDocument/eidd:IncidentTrackingIdentification/nc:IdentificationID	An identifier assigned by the first element in the ESInet. Incident Tracking Identifiers are globally unique and are associated with a single emergency incident. The Incident Tracking Identifier can be associated with one or more emergency calls. It is carried through to any incident resulting from an emergency call. It may or may not be the same as the local incident ID. Semantic Definition[4]: A globally unique

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[3] An Incident Tracking Identifier is normally a required field since it must be included when exchanging information about real world emergency events. However, the Incident Tracking Identifier may be omitted in order to support non-incident related data exchanges such as supporting the exchange of emergency resource status and location updates.

Data Element	Use	Min #	Max #	Relative XPath	Description*
					emergency incident identifier.
Reason for Issue	Shall be present Shall only contain values available in the "Reason for Issue" registry specified in Section 4.1.	1	*	EmergencyIncident DataDocument/eid d:ReasonForIssueR egistryText	One or more members of a registry identifying why the EIDD was created including: New Call, Incident Update, Incident Merged, Incident Closed, Emergency Resources Dispatched, etc. Semantic Definition: A code that identifies a reason for generating an EIDD.
Timestamp	Shall be present Shall be in the W3C dateTime timestamp format as specified in the Timestamp section of NENA-STA-010 [3.1].	1	1	EmergencyIncident DataDocument/nc: DocumentCreation Date/nc:DateTime	Indicates the date and time that EIDDs are generated and enables chronological sorting of EIDDs.
Element Identifier	Shall be present Shall be an identifier in the format of name@owning_agency as defined in NENA-STA-010 [3.1].	1	1	EmergencyIncident DataDocument/eid d:IssuingElementId entification	Semantic Definition: An Identifier of a functional element that created the EIDD instance.

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[4] Note, the Semantic Definitions in this table and all of the tables in Chapter 2 of this document correspond with the documentation tag in the EIDD schema. Any updates to any of the Semantic Definitions in this section shall be carried forward to the EIDD schema.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Globally Unique EIDD ID	Shall be present Functional elements shall generate a globally unique Identifier (GUID) for each created EIDD. The format and creation process shall conform with RFC 4122: A Universally Unique IDentifier (UUID) URN Namespace located at: http://www.rfc-base.org/rfc-4122.html	1	1	EmergencyIncident DataDocument/nc: DocumentIdentific ation/nc:Identificat ionID	An identifier assigned to EIDDs that is globally unique. Example: 123e4567-e89b-12d3-a456-426655440000
Collaboration URL	Optional	0	*	EmergencyIncident DataDocument/eid d:IncidentCollabora tionURL	URL reference to multi-media collaboration information associated with the Incident. Enables agencies working an incident to communicate using multi-media collaboration sessions. Semantic Definition: A URL reference to multi-media collaboration information associated with an incident.
Agent Information	Shall be present	1	1	EmergencyIncident DataDocument/eid d:Agent	Identifies the agent and agency that created the EIDD. Semantic Definition: A data component that identifies the agent that created the EIDD or

Data Element	Use	Min #	Max #	Relative XPath	Description*
					entered information into the EIDD.
Agency Information Ownership	Optional To transfer ownership, two or more instances of this data component shall be present; one for relinquishing and at least one more to indicate the agencies to which ownership is being transferred.	0	*	EmergencyIncident DataDocument/eid d:Agency	Contains ownership information for the incident associated with the Incident Tracking Identifier contained in the EIDD Header data component. Semantic Definition: A data component that identifies the agency that owns an incident.
Split/Merge Information	Optional	0	*	EmergencyIncident DataDocument/eid d:MergeInformatio n	Contains merge and split information related to the incident. Used to split a single incident into two or more incidents and to merge two or more incidents into a single incident. Semantic Definition: A data component that describes split or merge information for an incident.
Link Information	Optional	0	*	EmergencyIncident DataDocument/eid d:LinkInformation	Contains link information related to the incident. Used to link two or more incidents to each other. Semantic Definition: A data component that describes information used to link or unlink two

Data Element	Use	Min #	Max #	Relative XPath	Description*
					incidents to each other.
Incident Information	Optional	0	*	EmergencyIncidentDataDocument/eidd:Incident	Semantic Definition: A data component that contains general information about an incident.
Call Information	Optional	0	*	EmergencyIncidentDataDocument/eidd:Call	Semantic Definition: A data component that contains information about calls associated with an incident.
Dispatch Information	Optional	0	*	EmergencyIncidentDataDocument/eidd:Dispatch	Semantic Definition: A data component that contains dispatch information related to an incident.
Notes	Optional	0	*	EmergencyIncidentDataDocument/eidd:Notes	Semantic Definition: A data component that contains notes and comments associated with an incident.
Emergency Resource Information	Optional	0	*	EmergencyIncidentDataDocument/eidd:EmergencyResource	Semantic Definition: A data component that identifies changes to an incident associated with a call or that was entered by an emergency resource.
Alarms/Sensors	Optional	0	*	EmergencyIncidentDataDocument/eidd:AlarmsSensors	Semantic Definition: A data component that identifies Alarms/Sensor information associated with an incident.

2.2. Agent Information Data Component

- **Data Component Use:** The EIDD Agent Information Data Component shall be present in all EIDD instances
- **Child Of:** EIDD Header, Call Information, Link Information, Split/Merge Information, Alarm/Sensor, Notes, Dispatch Information, Incident Information, and Emergency Resource Information

- **Minimum Number:** 1

- **Maximum Number:** Unbounded

This Data Component contains information about agents (e.g., call takers, dispatchers, supervisors, responding emergency resources, etc.) and automated systems acting as agents that are involved in the incident. There may be multiple Agent Information data components in the case where both a call taker and dispatcher are involved in an incident, where multiple dispatch agencies are associated with the same incident, and similar situations.

Rarely, as in the case of automatically dispatched responses, the agent may be an automaton (automated system) such as an Interactive Media Response (IMR). Automatons that are actively involved in an incident or call shall be assigned an Agent ID that follows the i3 naming conventions (see NENA-STA-010 [3.1] for more information).

Every EIDD shall include at least one instance of this data component in order to identify the Agent creating the EIDD.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Agent ID	Shall be present Each agent shall have an identifier that is globally unique. Each agency shall provide a method for assigning identifiers (and public key credentials) to	1	1	eidd:Agent/eidd:AgentIdentification/nc:IdentificationID	Used to identify the agent creating an EIDD and agents that contributed information contained in an EIDD. The Agent may be a person or an automaton such as an IMR or a functional element when a person is not involved For more information on naming conventions see

Data Element	Use	Min #	Max #	Relative XPath	Description*
	an agent. Only one agent shall be identified as contributing data contained in a single data component of an EIDD. Multiple data components shall be used to conform to this requirement.				NENA-STA-010 [3.1] . Example: tom.jones@psap.allegheny.pa.us imr101@psap.allegheny.pa.us Semantic Definition: A globally unique identifier of an agent or automaton responsible for generating an EIDD and/or that contributed information contained in an EIDD.
Position ID	Conditional: Shall be present if incident is active, optional otherwise Shall be in the format of <position>@<agencyid>	0	1	eidd:Agent/eidd:AgentWorkstationPositionIdentification/nc:IdentificationID	Identifies the workstation position ID within the agency of the agent or device. Example: position12@psap.allegheny.pa.us. Semantic Definition: A globally unique identifier of a workstation position that generated an EIDD or contributed information contained in an EIDD.
Agent or Device Role	Shall be present Shall only contain values contained in the role registry[5] (AgentRoles) specified in NENA-NENA-STA-010[3.1] .	1	*	eidd:Agent/eidd:AgentDeviceRoleRegistryText	Identifies the Role of the Agent or device – dispatcher, call taker, responding emergency resources, IMR etc. Role includes position information such as call taker/patrolman as well as temporary incident related role information such as incident

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[5] A method for expanding the registry or creating new registries to handle non-9-1-1 roles (e.g., emergency responder roles) needs to be defined.

Data Element	Use	Min #	Max #	Relative XPath	Description*
					commander. Semantic Definition: A code for a role of an agent or automaton that generated an EIDD or contributed information contained in an EIDD.
Agency Information	Conditional: Shall be present if this is the agent in the EIDD Header, Optional otherwise.	0	1	eidd:Agent/eidd:Agency	Identifies the agency employing or contracting with the agent that performed the action associated with the parent data component and the agency's role in the incident.

2.3. Agency Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Agent Information and EIDD Header Information

- **Minimum Number:** 1
- **Maximum Number:** Unbounded

Every EIDD shall include at least one instance of this data component in the agent component of the EIDD header in order to identify the Agency creating the EIDD.

Many incidents have one owner, a specific agency. Incident ownership is defined as having the primary responsibility for handling the incident. Sometimes, ownership changes from one owner to another. In some jurisdictions, there can be more than one owner. Normally, ownership is passed from the current owner to another, but there are circumstances where ownership is unclear, and ownership needs to be claimed. The Agency Information data component provides a mechanism for establishing the agency that owns the incident associated with the incident tracking ID contained in the EIDD Header data component or for removing current ownership from that incident.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Agency ID	Shall be present Shall comply with the format defined for an agency in NENA-STA-010[3.1]	1	1	eidd:Agency/nc:OrganizationIdentification/nc:IdentificationID	Identifies the agency creating the EIDD and the agencies employing agents involved in the incident, or tracks incident ownership. Agencies include private and public providers. Agencies are globally unique. If the agency type is required, it can be looked up in the agency locator defined in NENA-STA-010.
Agency Role	Shall be present	1	1	eidd:Agency/eidd:	Identifies the role of the agency in relation to the

Data Element	Use	Min #	Max #	Relative XPath	Description*
	Shall only contain values available in the "Agency Role" registry specified in Section 4.2.			AgencyRoleDescriptionRegistryText	incident. Valid roles are available in an EIDD registry and include: Dispatching, Dispatched, CallReceiving, and TransferredTo. Semantic Definition: A code for a role of an agency involved in an incident.
Agency Contact Information URL	Conditional: Shall not be populated if the data element below (Agency Contact Information) contains data	0	1	eidd:Agency/eidd:AgencyContactURL	The URL is a link to contact information in the form of an xCard for the agency and is normally available in the agency locator database. Semantic Definition: A URL to contact information for an agency.
Agency Contact Information	Conditional: Shall not be populated if the data element above (Agency Contact Information URL) contains data Restricted to the XML structure for NIEM 3.0 xCard as specified in: https://tools.ietf.org/html/rfc6351	0	1	eidd:Agency/eidd:AgencyContactInfo	If the Agency contact information is by value these fields contain the information. This is a NIEM container for an externally defined component. Semantic Definition: Contact information for an agency.
Owning Agency	Optional	0	1	eidd:Agency/eidd:IncidentOwningAge	Enables updating of incident ownership information. Boolean data element that, if true,

Data Element	Use	Min #	Max #	Relative XPath	Description*
	Shall only be set to false by the agency that originally set it true unless the owning agency is unknown or by agreement with the original owning agency.			ncyIndicator	indicates that the agency associated with the Agency ID contained in this data component owns; or, if false does not own, the incident associated with the incident tracking ID in the EIDD Header data component. Semantic Definition: True if an agency owns the emergency incident; false otherwise.

2.4. Split/Merge Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

An optional data component used to indicate the existence of a merged Incident Tracking ID or to split an incident. The presence of a Split/Merge Information data component indicates that another Incident Tracking ID has been merged with, or is being split from the Incident Tracking ID contained in the EIDD header[6].

Data Element	Use	Min #	Max #	Relative XPath	Description*
Incident Tracking Identifier	Shall be present Shall contain the Incident Tracking Identifier of the incident that is being merged with, or split from the incident represented by the Incident Tracking Identifier contained in the EIDD Header.	1	1	eidd:MergeInformation/eidd:IncidentTrackingIdentifier/nc:IdentificationID	Identifies the Incident Tracking Identifier that is being merged or split. See Incident Split/Merge Indicator to determine the direction of the merge/split.
Split/Merge Indicator	Shall be present	1	1	eidd:MergeInformation/eidd:Incident	Indicates the direction of the merge/split and which incident tracking identifier survives a merge

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[6] More information on the merge process is available in the incident subsection of the PSAP section of 08-003 version 2[3.1].

Data Element	Use	Min #	Max #	Relative XPath	Description*
	Shall be one of: REPLACED, REPLACING, or SPLIT			MergeDirectionCode	operation. If the value of the Split/Merge Indicator is: - "REPLACED" the Incident Tracking Identifier in this data component contains the old Incident Tracking Identifier, Only applies to a merge operation. -"REPLACING" the Incident Tracking Identifier in this data component contains the new incident Tracking Identifier. Only applies to a merge operation. - "SPLIT" The Incident Tracking Identifier contained in this data component is split from the Incident Tracking Identifier contained in the EIDD Header data component. The other data components contained in the EIDD contain the data elements of the split incident. Semantic Definition: A code for a direction of a merge or split.
Agent Information	Optional Shall default to the Agent	0	1	eidd:MergeInformation/eidd:Agent	Identifies the agent and agency that completed the merge/split operation.

Data Element	Use	Min #	Max #	Relative XPath	Description*
	Information included in the EIDD header, if this element is not present.				

2.5.   Link Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

An optional data component that is used to indicate the existence of linked calls and incidents. A Link data component indicates that an incident has been linked to the Incident Tracking Identifier in the EIDD header. Incidents are linked when it is determined that while they are separate incidents, they are related in some way. When a link is declared, both Incident Tracking Identifiers continue to be used to track the individual incidents.

Incidents may be linked in a hierarchical relationship. For more information on hierarchal incidents see the Incident Tracking Identifier section of NENA-STA-010[3.1] .

Data Element	Use	Min #	Max #	Relative XPath	Description*
Incident Tracking Identifier	Shall be present	1	1	eidd:LinkInformation/eidd:IncidentTrackingIdentifier/nc:IdentificationID	The Incident Tracking Identifier of the incident that is being linked to the incident represented by the Incident Tracking Identifier contained in the EIDD Header. The nature of the link is defined by the link Indicator, below.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Reason for Action	Optional	0	1	eidd:LinkInformation/ansi-nist:TransactionReasonText	Free format narrative description of the reason for the link.
Link Indicator	Shall be present Shall be one of: PARENT, CHILD, RELATED, or UNLINK.	1	1	eidd:LinkInformation/eidd:LinkDirectionCode	Identifies the nature and direction of the link. If the value of the Link Indicator is: - "PARENT" The Incident Tracking Identifier contained in this data component shalcl be the parent of the Incident Tracking Identifier contained in the EIDD header. - "CHILD" The Incident Tracking Identifier contained in this data component shall be the child of the Incident Tracking Identifier in the EIDD header. - "RELATED" The Incident Tracking Identifier contained in this data component shall be related to the Incident Tracking Identifier in the EIDD header, without any parent-child relationship. - "UNLINK" The Incident Tracking Identifier contained in this data component shall be unlinked from the Incident Tracking Identifier

Data Element	Use	Min #	Max #	Relative XPath	Description*
					contained in the EIDD Header data component. Semantic Definition: A code for a kind of link performed.
Agent Information	Optional	0	1	eidd:LinkInformation/eidd:Agent	Identifies the agent and agency that completed the link operation. Defaults to the Agent Information included in the EIDD header, if this data component is not present.

2.6. Incident Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header
- **Minimum Number:** 0
- **Maximum Number:** Unbounded

The Incident Information data component is optional and is used to exchange general information about emergency incidents gathered by emergency agents, responding emergency resources, from reporting parties (callers), and devices reporting emergency incidents. There may be multiple Incident Information data components in situations where multiple agencies are involved in the same incident, when separate incidents have been merged into a single incident, and when multiple agencies maintain different representations of a common incident. For example, fire and police agencies responding to the same incident may have different versions of the Incident Information data components for the incident. Each agency's version of the Incident Information data component contains information that is relevant to their agency, but may also contain shared information that is common to both agencies.

This module is used to exchange incident update information, as well as for exchanging initial incident creation information. For example, in high priority incidents only partial information may be exchanged between call takers and dispatchers (i.e., the incident's type and location) while additional information is being collected. This data component is used for the initial, high priority exchange and the subsequent exchange containing the additional information collected after the initial exchange was completed. When multiple callers report a single incident, this data component is used to update involved agents and responding emergency resources about new information gathered from the other callers.

The Incident Information Data Component is also used to exchange general incident information developed during dispatch operations. Call takers, Dispatchers, Emergency Resources, and Emergency Devices can enter information exchanged/carried by this data component.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Incident Type-Internal	Optional	0	1	eidd:Incident/j:IncidentGeneralCategoryCode	An alphanumeric value indicating the type of incident. Identifies the internal value (local code) used by involved local systems that are more

Data Element	Use	Min #	Max #	Relative XPath	Description*
					specific or different from the common incident types described below.
Incident Type–Internal Text	Optional	0	1	eidd:Incident/j:IncidentGeneralCategoryText	Human readable text corresponding with the Incident Type-Internal.
Incident Type–Common	Shall be present

Shall only contain values available in the "Incident Type-Common" registry specified in Section 4.3. Entered values shall closely correspond to the Incident Type internal code. | 1 | 1 | eidd:Incident/eidd:IncidentTypeCommonRegistryText | Provides globally understood Incident Types. Each Agency should maintain a mapping of its Internal Incident Types (j:IncidentGeneralCategoryText) to the list of Common Incident Types (IncidentTypeCommonRegistryText). The Common Incident Type should be selected from this mapping when the EIDD is created to identify the incident type using a common code that is globally understood.

APCO has developed an ANS set of globally unique common incident type codes (APCO ANS 2.103.1-2012), which form the basis for this registry.

Semantic Definition: A standard code for a type of an incident. |
| Incident Status-Internal | Optional | 0 | * | eidd:Incident/eidd:IncidentStatusInter | An alphanumeric code indicating the status of the incident (active, closed, structure cleared, etc.). |

Data Element	Use	Min #	Max #	Relative XPath	Description*
				nalText	This is the internal code used by the local agencies involved in the incident. Semantic Definition: An internal code used by a local agency for a status of an incident.
Incident Status-Common	Optional Shall only contain values available in the "Incident Status-Common Registry" specified in Section 4.4. Entered values shall closely correspond to the Incident Status-Internal.	0	*	eidd:Incident/eidd: IncidentStatusCom monRegistryText	Provides globally understood incident statuses. Each Agency should maintain a mapping of its internal incident status (IncidentStatusInternalText) to the list of common incident status (IncidentStatusCommonRegistryText). The common incident status should be selected from this mapping when an EIDD is created to identify the incident status using a common code that is globally understood. Typically used to track significant changes in an incident's status. Semantic Definition: A standard code for a status of an incident.
Incident ID Internal	Optional	0	1	eidd:Incident/nc:Id entificationID	The Internal incident ID as an alphanumeric string assigned by the agency involved in the incident. Maintained for conformance with legacy systems that share local (internal) incident IDs that are not

Data Element	Use	Min #	Max #	Relative XPath	Description*
					Incident Tracking IDs.
Timestamp	Shall be present Shall be in the W3C dateTime timestamp format as specified in the Timestamp section of NENA-STA-010[3.1]	1	1	eidd:Incident/nc:DocumentCreationDate/nc:DateTime	Date and time of when the incident was created or updated. Enables chronological sorting of EIDDs.
Agent Information	Optional	0	1	eidd:Incident/eidd:Agent	Identifies the agent (could be either an agent in a communication center or a responding emergency resource) that entered information contained in this data component. Defaults to the Agent Information included in the EIDD header, if this data component is not present.
Location Information	Conditional: Shall be present if available	0	*	eidd:Incident/eidd:Location	Semantic Definition: A location associated with an incident.
Person Information	Optional	0	*	eidd:Incident/eidd:Person	Semantic Definition: Information about a person associated with an incident.
Vehicle Information	Optional	0	*	eidd:Incident/eidd:Vehicle	Semantic Definition: Information about a vehicle associated with an incident.
Report Number	Optional	0	*	eidd:Incident/nc:DocumentIdentificat	The Report Number connects the incident to one or more associated follow-up reports and

Data Element	Use	Min #	Max #	Relative XPath	Description*
	Shall be in the form of <report number>@AgencyID			ion/nc:IdentificationID	investigations. Each responding agency may have its own report numbers. Typically used to track the status of follow up reports. Semantic Definition: A globally unique follow-up report number associated with an incident.
Internal Priority	Optional	0	1	eidd:Incident/eidd:IncidentPriorityInternalText	Priority of the incident as alphanumeric text. This value may only be meaningful to the local agency providing the information and other closely cooperating agencies. Note, that different responding agencies may assign different priorities to same incident; for example a high priority fire incident may be a medium priority law enforcement incident. Semantic Definition: An internal value used by a local agency for the priority of an incident.
Common Priority	Optional Shall be a numeric incident priority that ranges from 0 to 10, with 10 being the highest priority and 0 being the lowest priority.	0	1	eidd:Incident/eidd:IncidentCommonPriorityNumber	Globally understood numeric incident priority. The Internal Priority, described above, should be mapped to this (Common Priority) data element so that all involved and interested agencies can determine the relative priority of the incident. Semantic Definition: A globally unique priority of

Data Element	Use	Min #	Max #	Relative XPath	Description*
					an incident.
Beat/dispatch group	Optional	0	1	eidd:Incident/eidd: BeatOrDispatchGroupText	The beat or dispatch group that contains the incident. Note that each agency involved in the incident may have its own beat or dispatch group. Semantic Definition: A beat or dispatch group that contains an incident.
Disposition Information	Optional	0	*	eidd:Incident/eidd: Disposition	Semantic Definition: Incident disposition information entered or updated by a dispatch agent and/or a responding emergency resource.

2.7. Call Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

The Call Information data component is optional and is used to exchange call information about the incident received and collected by the agent identified in this data component. There can be more than one call about an incident, and thus more than one instance of this data component can be in an EIDD. Some of the information in this data component is contained in the call, some is Additional Data associated with the call, and other information is collected by the agent. This component should also be used to exchange incident information provided by emergency resources reporting an incident through radio communications.

Data Element	Use	Min #	Max #	Relative XPath	Description
Call Identifier	Shall be present For incidents that are created without a call identifier (radio, MCT initiated, etc.), the unique call identifier shall be created by the system that populated this data component in conformance with NENA-STA-010 [3.1].	1	1	eidd:Call/eidd:CallIdentifier	The Call identifier is automatically created by the first active functional element in the first ESInet that handles a call. Call Identifiers are globally unique and are only valid for a specific call. Semantic Definition: An identifier of a call associated with an incident.
Call Origination	Shall be present Shall only contain values available in the "Call	1	1	eidd:Call/eidd:CallTypeDescriptionRegistryText	Semantic Definition: A code for the call origination designation.

Data Element	Use	Min #	Max #	Relative XPath	Description
	Origination" registry specified in Section 4.5.				
Additional Data	Optional	0	1	eidd:Call/eidd:AdditionalData	Semantic Definition: Additional information received with the call or device.
Timestamp of when the call was received	Shall be present Shall be in the W3C dateTime format as specified in the Timestamp section of NENA-STA-010 [3.1].	1	1	eidd:Call/nc:ActivityDateRange/nc:StartDate	Date and time stamp of when the call was received by the agency creating the EIDD.
Timestamp of when call ended	Optional Shall be in the W3C dateTime timestamp format as specified in the Timestamp section of NENA-STA-010 [3.1].	0	1	eidd:Call/nc:ActivityDateRange/nc:EndDate	Date and time stamp of when the call ended.
Call Status	Shall be present Shall only contain values available in the "Call Status" registry specified in Section 4.6.	1	1	eidd:Call/eidd:CallStatusRegistryText	Semantic Definition: A code for current call status at the time the EIDD was created.
URL to media associated with the call	Optional	0	*	eidd:Call/eidd:CallMediaURL	Semantic Definition: A location where media associated with the call (images, streaming video,

Data Element	Use	Min #	Max #	Relative XPath	Description
					streaming audio, etc.) is available.
Device Call Back Information	Optional Shall be in the form of a url. For telephone numbers use either a sip or tel url.	0	1	eidd:Call/eidd:DeviceCallBackInformationURL	Information that can be used by agents and responding emergency resources to reach (call back) the device that initiated the call. This information is only guaranteed to be valid during the call and for a few minutes after it ends. Semantic Definition: A URL containing limited duration Information for a telephone number or SIP equivalent for calling back a device that initiated a call.
Caller Call Back Information	Optional Shall be in the form of a url. For telephone numbers use either a sip or tel url.	0	1	eidd:Call/eidd:CallerCallBackInformationURL	Semantic Definition: A URL for a telephone number or SIP equivalent for calling back a caller that initiated a call.
Agent Information	Optional	0	1	eidd:Call/eidd:Agent	Identifies the agent and agency that received the call described in this data component and/or entered additional information related to the received call. Defaults to the Agent Information included in the EIDD header, if this data component is not present.

Data Element	Use	Min #	Max #	Relative XPath	Description
Updated Call Back Number	Optional	0	1	eidd:Call/eidd:UpdatedCBN	Semantic Definition: Additional telephone numbers and SIP equivalents that can be used to contact the individual that made a call associated with an incident.
Location Information	Optional	0	*	eidd:Call/eidd:Location	Contains call location information received with the call or updated by the agent receiving the call.
Person Information	Optional	0	*	eidd:Call/eidd:Person	Contains additional information about callers making a call that was received by the agent receiving the call described in this data component. Used to associate the type of involvement that person has with the call (victim, caller, etc.) as well as tracking additional information about the caller.

2.8. Updated Call Back Number Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Call Information

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is optional and is used to exchange information about additional phone numbers that can be used to contact the incident's reporting parties.

Data Element	Use	Min #	Max #	Relative XPath	Description
Updated caller call back number	Shall be present Shall be in the form of a URI.	1	1	eidd:UpdatedCBN/ eidd:UpdatedCBNIdentifier	Semantic Definition: A telephone number or SIP equivalent of a reporting party described in the parent call.
Updated Caller Call back number description	Optional	0	1	eidd:UpdatedCBN/ eidd:UpdatedCBNCallerDescription	Semantic Definition: Additional descriptive text about an updated caller call back number such as the days and hours to use it and the type of number (e.g., work, home, friend, etc.)

2.9. Dispatch Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component contains dispatch related information. It allows updates to be sent and received between Incident Handling FEs and Dispatch FEs, between different Dispatch FEs that are working the same incident, and enables exchanging information provided directly by emergency resources responding to the incident. It can also be used to provide dispatch related status updates to involved agencies and authorized stakeholders. If several agencies are dispatched (one fire and one police, two fire agencies, etc.), there shall be a separate instance of this data component for each dispatched agency.

Data Element	Use	Min #	Max #	Relative XPath	Description
Dispatched Agency ID	Optional Agency Identifiers are globally unique and shall follow the format and other requirements specified in the Agency Identifier section of NENA-STA-010[3.1]	0	1	eidd:Dispatch/nc:OrganizationIdentification/nc:IdentificationID	Identifier of the Agency that was dispatched through action performed in this data component.
Agent Information	Optional Shall default to the Agent Information included in the EIDD header if this data component is not present.	0	1	eidd:Dispatch/eidd:Agent	Identifies the agent and agency that completed the dispatch operation described in, and/or entered the information contained in this data component.

Data Element	Use	Min #	Max #	Relative XPath	Description
Emergency Resource Information	Shall be present when the agent assigns responders; optional otherwise.	0	*	eidd:Dispatch/eidd: EmergencyResourc e	Contains information about emergency responders assigned (dispatched) to the incident, as well as their status and location updates.

2.10. Disposition Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Incident Information and Responder Information

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

Agency specific and standardized disposition codes assigned to an incident. Multiple disposition codes per incident are supported. Either a responder or a dispatcher can close an incident and assign a final disposition codes to it.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Common Disposition Code	Shall be present Shall only contain values available in the "Common Disposition Code" registry specified in Section 4.7.	1	1	eidd:Disposition/eidd:DispositionCommonRegistryText	An agency assigns a disposition to an incident when its participation in the incident ends. The disposition code indicates whether follow-up reports are necessary and other information about the incident such as whether it resulted from a false or actual alarm. The disposition codes are drawn from a registry containing common disposition codes for Police, Fire, and EMS disciplines. Semantic Definition: A code for an agency's disposition for an incident.
Disposition Code Type	Optional The value shall be Boolean, where True indicates a	0	1	eidd:Disposition/eidd:DispositionPrimaryIndicator	A designation of whether the common disposition code is the primary disposition code for the incident. Note that, multiple primary codes are allowed, but some systems may not be able

Data Element	Use	Min #	Max #	Relative XPath	Description*
	primary disposition code				handle more than one primary common disposition code. It is possible that no codes are marked as primary. Semantic Definition: True if the common disposition is the primary disposition for an agency for an incident; false otherwise.
Disposition Code Internal	Optional The Common Disposition Code, referenced above, shall be mapped to the closest value of this data element.	0	1	eidd:Disposition /nc:DispositionCat egoryText	An agency specific, alphanumeric code that indicates how the incident was closed.
Disposition Text Internal	Conditional: If Disposition Code internal is present, this element shall be present; Optional otherwise.	0	1	eidd:Disposition/nc :DispositionDescrip tionText	Descriptive text describing the Disposition Code Internal. Disposition codes may be agency specific and this field explains the meaning of the internal disposition code.

2.11. Notes Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header, Additional Data, and Location Information

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is typically populated by emergency service agents and responders and occasionally by automated devices. There may be multiple notes from the same agent and there may be notes from multiple agents and agencies.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Timestamp	Shall be present Shall be in the W3C dateTime timestamp format as specified in the Timestamp section of NENA-STA-010 [3.1].	1	1	eidd:Notes/nc:DocumentCreationDate/nc:DateTime	Date and time indicating when the note was entered. Can be used to sort notes in chronological order.
Notes	Shall be present Shall be entered in an HTML5 fragment and shall be limited to 16 MB. The fragment shall be contained in a CDATA section.	1	1	eidd:Notes/eidd:NotesActionComments	Notes created by an agent. HTML5 is used to allow multimedia data to be contained in the notes. Security issues may arise from embedding scripts, images, and other references including JavaScript in notes and the receiving system may ignore or filter out such embedded information. Semantic Definition: A note about an incident created by an agent in HTML5 format.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Agent Information	Optional	0	1	eidd:Notes/eidd:Agent	Identifies the agent and agency that entered the note contained in this data component. Defaults to the Agency Information included in the EIDD header, if this data component is not present.

2.12. Person Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Incident Information and Responder Information
- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is used to exchange information about people associated with an incident including: callers, suspects, victims, witnesses, and other individuals involved in the incident. The information is provided by reporting parties and emergency responders. Responders can enter the information either directly through their mobile data computers or via their assigned dispatchers.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Person Role	Shall be present Shall only contain values available in the "Person Role" registry specified in Section 4.8.	1	*	eidd:Person/eidd:PersonIncidentRoleRegistryText	Describes the role (caller, victim, suspect, etc.) of a person to the incident. Note that there could be multiple relationships as when the reporting party is also the victim. Semantic Definition: A code for a role of a person involved in an incident.
NIEM Person Components	Shall be present Appendix 1 identifies the nc:PersonType data elements that shall be supported for interoperability by NG9-1-1 and other systems that exchange	1	1	eidd:Person/nc:Person	Used to store and exchange detailed information on about a person.

Data Element	Use	Min #	Max #	Relative XPath	Description*
	EIDD instances.				
Additional Data	Optional	0	1	eidd:Person/eidd:AdditionalData	Contains additional information about callers associated with the incident. Used when Additional Data can be attributed to a specific person.

2.13. Additional Data Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Person Information, Location Information, Call Information

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is optional and is used to exchange information about individuals associated with a call, caller and/or location received by an agent handling the incident. Multiple sources of Additional Data are possible, and each source may provide one or more blocks of data by value or by reference.

Data Element	Use	Min #	Max #	Relative XPath	Description*
URL to Additional Data	Optional	0	*	eidd:AdditionalData/eidd:AdditionalDataURL	This is a link to the Additional Data that arrives with the Call or is obtained from an Additional Data Repository. The contents and format of the Additional Data retrieved from the URL is defined in NENA-STA-012.2-2015 and https://tools.ietf.org/html/rfc7852[3.10]. Semantic Definition: A URL that references additional data associated with a call.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Additional Data	Optional Restricted to the XML structure for Additional Data specified in NENA-STA-012.2-2015 https://tools.ietf.org/html/rfc7852[3.10].	0	*	eidd:AdditionalData/eidd:AdditionalDataDetail	If the Additional Data is sent by value, these fields contain the information. Semantic Definition: Additional data associated with a call.
Notes	Optional	0	*	eidd:AdditionalData/eidd:Notes	Used to track notes and comments associated with the call, callers, location, and/or the incident.

2.14. Vehicle Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Incident Information and Responder Information
- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is used to exchange information about vehicles associated with an incident including: suspect vehicles, vehicles involved in accidents, and other vehicles involved with the incident. The information is provided by reporting parties and emergency responders. Responders can enter the information either directly through their mobile data computers or via their assigned dispatchers.

Note that vehicle telematics information is not located in this data component. It is located in Additional Data.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Vehicle Relationship Type	Shall be present Shall only contain values available in the "Vehicle Relationship Type" registry specified in Section 4.9.	1	*	eidd:Vehicle/eidd:VehicleIncidentRelationshipRegistryText	Semantic Definition: A code for a type of relationship (victim, accident, suspect, etc.) between a vehicle and an incident.
NIEM Vehicle Components	Shall be present Appendix 2 identifies the nc:Vehicle Type data elements that shall be supported for interoperability by NG9-1-1 and other systems that exchange	1	1	eidd:Vehicle/nc:Vehicle	Used to store and exchange detailed information about a vehicle involved in the incident.

EIDD instances					

2.15. Location Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** Call Information, Incident Information, Dispatch Information and Responder Information

- **Minimum Number:** 1
- **Maximum Number:** Unbounded

This data component represents a generic location associated with an incident. The type of location may be the caller's location, the incident's location or another type of location indicated by the Location Type field in the data component. In order to dispatch emergency responders an "initial" incident location is necessary. It may be the same as the caller's location, but it may also evolve as the incident progresses. For example, emergency responders are initially dispatched to the caller's location, the caller verbally describes a different location for the incident, and finally the first responders arrive at the scene and relate yet another location for the incident. The incident's location may also be mobile such as a caller reporting an incident from a moving vehicle or a law enforcement chase in progress.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Location Type	Shall be present Shall only contain values available in the "Location Type" registry specified in Section 4.10.	1	1	eidd:Location/eidd: LocationTypeDescri ptionRegistryText	Semantic Definition: A code for a location type (Caller's, Initial, Current, Staging, Investigation, Tower Location, Other, etc.).
Location By Value	Conditional: If Location By Value is populated then Location By Reference shall not be	0	1	eidd:Location/eidd: LocationByValue	Indicates the location of the incident without the need to dereference it. Although implementation must support all PIDF-LO data elements, many of

Data Element	Use	Min #	Max #	Relative XPath	Description*
	populated. . The Location Information data component shall support all PIDF-LO data elements (urn:ietf:params:xml:ns:pidf).				these elements may not be present in an EIDD. When populated, this data element will contain civic or geodetic location elements, but not both. Semantic Definition: A location associated with an incidentl in PIDF-LO format.
Location By Reference	Conditional: If Location By Value is populated then Location By Reference shall not be populated When dereferenced the values shall support the PIDF-LO data elements.	0	1	eidd:Location/eidd:LocationByReferenceURL	A URL that can be dereferenced to obtain the location of the indicated location type. This is particularly useful for indicating the location of moving devices such as callers in moving vehicles. The current location of the device can be de-referenced and inserted into the incident record. Semantic Definition: A URL where a location associated with an incident can be dereferenced.
Location Type Description	Optional	0	1	eidd:Location/nc:LocationDescriptionText	Optional text further describing the location type. Note that the Location may be the Caller's location, incident's location or another type of location depending on the Location Type field.
Cross Street By Value	Conditional: If Cross Street By Value is populated then Cross Street By Reference shall not be populated.	0	2	eidd:Location/eidd:CrossStreetByValue	Semantic Definition: The nearest cross street(s) to an incident's location in PIDF-LO format.

Data Element	Use	Min #	Max #	Relative XPath	Description*
	The Cross Street data shall be stored in the street name components of, and conform with the PIDF-LO data structures (urn:ietf:params:xml:ns:pidf). The Country, State, and Incorporated Municipality and/or Unicorporated Community shall also be populated.				
Cross Street By Reference	Conditional: If Cross Street By Value is populated then Cross Street By Reference shall not be populated. . When dereferenced the values shall include the PIDF-LO data elements specified in CrossStreet By Value.	0	2	eidd:Location/eidd:CrossStreetByReferenceURL	A URL that can be dereferenced to obtain the nearest cross street(s). Semantic Definition: A URL where a cross street associated with an incident can be dereferenced.
Intersecting Street By Value	Conditional: If Intersecting Street By Value is populated then Intersecting Street By Reference shall not be	0	*	eidd:Location/eidd:IntersectingStreetByValue	Semantic Definition: An additional street that, with the location, forms an intersection in PIDF-LO format.

Data Element	Use	Min #	Max #	Relative XPath	Description*
	populated. The Intersection data shall be stored in the street name components of, and conform with the PIDF-LO data structures (urn:ietf:params:xml:ns:pidf). The Country, State, and Incorporated Municipality and/or Unicorporated Community shall also be populated.				
Intersecting Street By Reference	Conditional: If Intersecting Street By Value is populated then Intersecting Street By Reference shall not be populated. When dereferenced, the values shall include the PIDF-LO data elements specified in Intersection By Value.	0	*	eidd:Location/eidd:IntersectingStreetByeReferenceURL	Semantic Definition: A URL that can be dereferenced to obtain an additional street that, with the location, forms an intersection.
CellSectorID	Optional	0	1	eidd:Location/eidd:CellTowerSectorID	Text field contain the id of the nearest cell tower and the sector/face of the tower receiving the call. This is especially important for maritime

Data Element	Use	Min #	Max #	Relative XPath	Description*
					locations. May be used with the "Provided By" field of the PIDF-LO to identify the carrier if carrier specific data is needed. Semantic Definition: The nearest cell tower and sector/face of the tower receiving a call associated with an incident.
Additional Data	Optional	0	1	eidd:Location/eidd: AdditionalData	Contains Additional Data associated with a location that arrives with a call or is retrieved from an Additional Data Repository.
Notes	Optional	0	*	eidd:Location/eidd: Notes	Contains optional alphanumeric text further describing the location.

2.16. Emergency Resource Information Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header and Dispatch Information

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

A responder can be a vehicle, a person (foot patrol), an organizational unit such as a squad or strike team, and other emergency responder configurations. A responder shall be described by a unique unit ID and unit type. There may be multiple Responder Information data components where multiple emergency responders are dispatched to a single incident. When responders are assigned to an incident by a dispatcher, then the parent data component shall be Dispatch Information and the same agency and agent that entered the information contained in the Dispatch Information data component entered the information contained in the Responder Information. However, when responders update their status or change the incident through their Mobile Data Computer (MDCs), then the parent data component shall be the EIDD Header. Agent Information child data components of Responder Information instances shall identify the individuals associated with the emergency response unit. For example, officer Jeff Smith and John Jones are currently operating (riding in) police unit number 52.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Emergency Resource Type - Common	Shall be present Shall only contain values available in the "Emergency Resource Type-Common" registry specified in Section 4.13.	1	1	eidd:EmergencyResource/eidd:EmergencyResourceTypeCommonRegistryText	The emergency resource type (e.g., fire truck, police vehicle, ladder truck, etc.). The resource types are drawn from a registry containing common resource types for Police, Fire, and EMS disciplines. Semantic Definition: A standard code for an emergency resource type (fire truck, police vehicle, etc.).

Data Element	Use	Min #	Max #	Relative XPath	Description*
Emergency Resource Type - Internal	Optional	0	1	eidd:EmergencyResource/eidd:EmergencyResourceTypeInternalText	The emergency resource types used by the local/internal agencies involved in the incident. The Emergency Resource Type-Internal should be mapped to the closest matching Emergency Resource Type-Common for interoperability. Semantic Definition: A local code for an emergency resource type.
Resource Attribute	Optional Shall only contain values available in the "Resource Attribute" registry specified in Section 4.14.	0	*	eidd:EmergencyResource/eidd:ResourceAttributeRegistryText	Identifies the skills and equipment available to or possessed by emergency resources (e.g., jaws of life, basic life support, advanced life support, dive team member, Spanish speaking, etc.) May be multiple in situations where a single emergency resource can perform several emergency response functions or has multiple skills. Semantic Definition: A standard code for an emergency resource attribute (skill and equipment) possessed by an emergency resource.
Unit ID-Common	Shall be present The format of the identifier shall be: unit@domain. Example: Fire1@riversideFD.riverside.ca.	1	1	eidd:EmergencyResource/j:EnforcmentUnitName	A globally unique identifier for an emergency response unit.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Unit ID-Internal	Optional	0	1	eidd:EmergencyResource/j:EnforcementUnitIdentification/nc:IdentifcationID	Local identifier for the unit including owning agency. May be meaningful only to the owning agency and possibly to other closely affiliated agencies.
Primary Unit Status-Common	Shall be present An emergency resource shall only have one Primary Unit Status-Common at any given time. Shall only contain values available in the "Primary Unit Status-Common" registry specified in Section 4.11. Agencies shall map their Unit Status-Internal to the most appropriate combination of Primary Unit Status-Common and Secondary Unit Status-Common available in the registry.	1	1	eidd:EmergencyResource/eidd:PrimaryUnitStatusRegistryText	The common, globally unique, status that sets the emergency resource's ability to be assigned to an emergency incident. Semantic Definition: A code for a primary, standard status of an emergency resource.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Secondary Unit Status-Common	Shall be present Shall only contain values available in the "Primary Unit Status-Common" registry specified in Section 4.12. Agencies shall map their Unit Status-Internal to the most appropriate combination of Primary Unit Status-Common and Secondary Unit Status-Common available in the registry. Primary Unit Status-Common values shall not be used as Secondary Unit Status-Common values.	1	*	eidd:EmergencyResource/eidd:SecondaryUnitStatusRegistryText	Common, globally unique, statuses that supplement the Primary Unit Status-Common by providing more detail about the associated Primary status. Some systems may not be able to handle Secondary statuses, which is acceptable, but not recommended. Semantic Definition: A code for a standard secondary status that supplements the primary status of an emergency resource.
Notes	Optional	0	1	eidd:EmergencyResource/eidd:Notes	Contains notes and comments related to the status of an emergency responder (e.g., time that status is expected to change, etc.)

Data Element	Use	Min #	Max #	Relative XPath	Description*
Unit Status-Internal	Optional	0	*	eidd:EmergencyResource/eidd:UnitStatusInternal	Local/internal statuses of an emergency resource. May be meaningful only to the owning agency and possibly to other closely affiliated agencies. Some systems may not be able to handle multiple Unit Statuses-Internal. Semantic Definition: A local code for a status of an emergency resource.
Timestamp	Shall be present Shall be in the W3C dateTime timestamp format as specified in the Timestamp section of NENA-STA-010[3.1].	1	1	eidd:EmergencyResource/nc:DocumentCreationDate/nc:DateTime	Time and date when the emergency responder information is captured.
Agent Information	Shall be present	1	*	eidd:EmergencyResource/eidd:Agent	Identifies the agents currently staffing the emergency responder unit and the agency to which the unit belongs.
Unit Location Information	Optional The Location Type shall be Unit Location	0	1	eidd:EmergencyResource/eidd:UnitLocation	Contains the unit's location.
Person Information	Optional	0	*	eidd:EmergencyResource/eidd:Person	Contains person information entered or updated directly by an emergency responder.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Vehicle Information	Optional	0	*	eidd:EmergencyResource/eidd:Vehicle	Contains vehicle information entered or updated directly by an emergency responder.
Disposition Information	Optional	0	*	eidd:EmergencyResource/eidd:Disposition	Contains incident disposition information entered or updated directly by an emergency responder.

2.17. Alarms and Sensors Data Component

- **Data Component Use:** Optional Component
- **Child Of:** EIDD Header

- **Minimum Number:** 0
- **Maximum Number:** Unbounded

This data component is only used to support the exchange of the legacy APCO CSAA ANS (APCO/CSAA ANS 2.101.2-2014) interface. There may not be an i3 call associated with this alarm. The Incident Record Handling FE will have a direct interface that supports APCO CSAA ANS and the FE will use it to automatically extract the relevant information and create an incident. This data component provides a link to the original information received from the alarm company. Any other form of Alarm or Sensor data shall be contained in the Additional Data Data Component.

Data Element	Use	Min #	Max #	Relative XPath	Description*
CSAA Alarm Information	Conditional: Either the Alarms and Sensors URL or the CSAA Alarm Information shall be populated, but not both. Restricted to the XML structure specified in the APCO/CSAA ANS (APCO/CSAA ANS 2.101.2-2014)	0	1	eidd:AlarmsSensors/eidd:CSAAAlarmInformationText	Enables the tracking of the original automated alarm data that triggered the creation of the incident. Semantic Definition: Central Station Alarm Association (CSAA) data associated with an incident.

Data Element	Use	Min #	Max #	Relative XPath	Description*
Alarms and Sensors URL	Conditional: Either the Alarms and Sensors URL or the CSAA Alarm Information shall be populated, but not both. The data retrieved from the URL shall be restricted to the XML structure specified in APCO/CSAA ANS (APCO/CSAA ANS 2.101.2-2014)	0	1	eidd:AlarmsSensors/eidd:AlarmURL	Link to the automated alarm data that initiated the incident. Enables the receiving agency to dereference and obtain the original alarm information that triggered the incident. Semantic Definition: A URL that references CSAA data associated with an incident.
Agent Information	Optional	0	1	eidd:AlarmsSensors/eidd:Agent	Identifies the agent and agency that processed the Alarm/Sensor information described in this data component. Defaults to the Agent Information included in the EIDD header, if this data component is not present.

Chapter 3   Works Cited

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3.3. National Information Exchange Model 2.1 (NIEM 2.1), September 29, 2009 available at: http://release.niem.gov/niem/2.1/.

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3.5. Introduction to the National Information Exchange Model (NIEM), version 0.3, February 12, 2007 available at: https://www.niem.gov/documentsdb/Documents/Overview/NIEM_Introduction.pdf.

3.6. National Information Exchange Model Naming and Design Rules, Version 1.3, October 31, 2008 available at: https://www.niem.gov/documentsdb/Documents/Technical/NIEM-NDR-1-3.pdf .

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3.8. NG9-1-1 Additional Data, National Emergency Number Association, NENA-STA-012.2-2015 (work in progress)

3.9. A Uniform Resource Name (URN) for Emergency and Other Well-Known Services, IETF RFC 5031, January 2008, http://tools.ietf.org/html/rfc5031

3.10. Additional Data Related to an Emergency Call, July 2016, https://tools.ietf.org/html/rfc7852

3.11. GEOPRIV Presence Information Data Format Location Object (PIDF-LO), IETF RFC 5491, March 2009, http://www.rfc-archive.org/getrfc.php?rfc=5491

3.12. A Presence-based GEOPRIV Location Object Format, IETF RFC 4119, December 2005, http://www.ietf.org/rfc/rfc4119.txt

3.13. Revised Civic Location Format for Presence Information Data Format Location Object (PIDF-LO), IETF RFC 5139, February 2008, http://www.ietf.org/rfc/rfc5139.txt

Chapter 4   EIDD Registries

This section describes the EIDD registries defined for the Data Components contained in Chapter 2 of the document.

This document requests the NENA Registry System (NRS) to create the registries identified in this chapter.

The registries defined in this document are initial versions. It is expected that they will be refined and further elaborated in the future as the EIDD is implemented in various applications. Each defined EIDD registry is linked to one or more data elements specified in the data components contained in Chapter 2 (Data Associated with an Emergency Incident). Each EIDD registry is named after the data element that uses it and includes references to the Data Components that contain the registry's data element.

4.1.   Reason for Issue Registry

The "Reason for Issue" data element is described in Section 2.1 (EIDD Header Data Component) of the document.

4.1.1.   Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.1.2.   Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.1.3.   Initial Values

The initial Reason for Issue registry entries are:

Value	Literal Description	Reference
CallAnswered	An emergency call was answered by an agent	APCO NENA 2.105.1-2017
CallOffered	The call has been offered to one or more agents (i.e., the phone rang).	APCO NENA 2.105.1-2017
CallReceived	The call handling FE has received an "INVITE" for a new call from the terminating ESRP that has not yet been offered to an agent (i.e., is in a queue)	APCO NENA 2.105.1-2017
EmergencyResourceStatusChanged	Change occurred in the status of emergency resources associated with the incident (dispatched, arrived, cleared, etc.)	APCO NENA 2.105.1-2017
IncidentClosed	An incident is in the process of being closed	APCO NENA 2.105.1-2017
IncidentReopened	A previously closed incident needs to be reopened	APCO NENA 2.105.1-2017
IncidentUpdate	An EIDD is being generated due to a change in the status of an incident	APCO NENA 2.105.1-2017
LinkIncidents	Two or more incidents are being linked to each other	APCO NENA 2.105.1-2017
MergedIncidents	Two incidents are being merged into a single incident	APCO NENA 2.105.1-2017
QueryResponse	An EIDD is being generated in response to a query about an incident	APCO NENA 2.105.1-2017
SplitIncident	A single incident is being separated into two incidents (a future capability)	APCO NENA 2.105.1-2017
TransferredCall	An EIDD is being generated in association with a transferred call	APCO NENA 2.105.1-2017
UnitStatusUpdate	The status and/or location of an emergency unit not associated with an incident has changed	APCO NENA 2.105.1-2017
UnLinkIncidents	Two or more incidents are being un-linked from each other	APCO NENA 2.105.1-2017
UnMergeIncidents	Two or more incidents are being un-merged from each other	APCO NENA 2.105.1-2017

4.2. Agency Role Registry

The "Agency Role" data element is described in Section 2.3 (Agency Information Data Component) of the document.

4.2.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.2.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.2.3. Initial Values

The initial Agency Role registry entries are:

Value	Literal Description	Reference
Assisting	An agency is assisting on, or being consulted regarding an incident	APCO NENA 2.105.1-2017
CallReceiving	The Agency that received the emergency call	APCO NENA 2.105.1-2017
Dispatched	The Agency that had emergency resources dispatched to an incident	APCO NENA 2.105.1-2017
Dispatching	The Agency that dispatched emergency resources to an incident	APCO NENA 2.105.1-2017
Informational	An agency is receiving information regarding an incident, but is not otherwise participating	APCO NENA 2.105.1-2017
TransferredTo	The Agency to which the emergency call is being transferred	APCO NENA 2.105.1-2017

4.3. Incident Type – Common Registry

The "Incident Type – Common" data element is described in Section 2.6 (Incident Information Data Component) and Section 2.9 (Dispatch Information Data Component) of the document.

4.3.1. Registry Management Policy

The primary values for this registry are taken from APCO ANS 2.103.1-2012: Public Safety Communications Common Incident Types for Data Exchange. When that APCO standard is superseded, then the registry shall be updated accordingly. The registry shall be updated within 30 days of ANSI approval of the revised standard.

4.3.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.3.3. Initial Values

The initial values of the Incident Type – Common registry are described in the APCO ANS 2.103.1-2012 standard: "Public Safety Communications Common Incident Types for Data Exchange", where value is taken from INC CODE, the short description is taken from INCIDENT DESCRIPTOR and the document reference is APCO ANS 2.103.1-2012.

4.4. Incident Status-Common

The "Incident Status-Common" data element is described in Section 2.6 (Incident Information Data Component) of this document. [7]

4.4.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a

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[7] The goal of the incident statuses contained in the registry is to use distinct entries that are readily identifiable by agents receiving an EIDD. Multiple incident statuses may be used to specify complex situations such as an active fire incident that has had a structure cleared. In this case, the following incident statuses could be assigned: "Active" and "StructureCleared." Incident status codes may be used to indicate either when a particular event occurred during the incident (patient contact) and/or when the incident's status has changed (ResourcesOnscene).

proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.4.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.4.3. Initial Values

The initial Incident Status-Common registry entries are:

Value	Literal Description	Reference
Active	The incident is active.	APCO NENA 2.105.1-2017
Cancelled	Incident cancelled	APCO NENA 2.105.1-2017
Closed	Incident closed	APCO NENA 2.105.1-2017
FireUnderControl	Emergency responder has declared that a fire is under control	APCO NENA 2.105.1-2017
NewLocation	The incident's location has changed	APCO NENA 2.105.1-2017
ReOpened	Incident has been re-opened	APCO NENA 2.105.1-2017
ResourcesAssigned	Incident has had at least one emergency resource assigned to it	APCO NENA 2.105.1-2017
ResourcesEnroute	At least one emergency resource is en route to the incident	APCO NENA 2.105.1-2017
ResourcesOnscene	At least one emergency resource has arrived at the location (on scene) of the incident	APCO NENA 2.105.1-2017
StructureCleared	Emergency responder has declared that the structure has been cleared	APCO NENA 2.105.1-2017

4.5. Call Origination

The "Call Origination" data element is described in Section 2.7 (Call Information Data Component) of the document.

4.5.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.5.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.5.3. Initial Values

The initial Call Origination registry entries are:

Value	Literal Description	Reference
AdminCall	Emergency call that arrives over administrative lines	APCO NENA 2.105.1-2017
EmergencyCall	Normal Emergency (9-1-1) call	APCO NENA 2.105.1-2017
FieldInitiated	Emergency call was initiated directly by a responder	APCO NENA 2.105.1-2017

4.6. Call Status

The "Call Status" data element is described in Section 2.7 (Call Information Data Component) of the document.

4.6.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values

are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.6.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.6.3. Initial Values

The initial Call Status registry entries are:

Value	Literal Description	Reference
Active	An emergency call was answered and is currently being processed by an agent	APCO NENA 2.105.1-2017
AgentDisconnect	The emergency call was terminated normally by the agent	APCO NENA 2.105.1-2017
CallAnsweredByIMR	An emergency call was answered by an automaton.	APCO NENA 2.105.1-2017
CallerDisconnect	The emergency call was terminated by the Caller	APCO NENA 2.105.1-2017
CallInQueue	The emergency has been placed in a queue and is awaiting attention.	APCO NENA 2.105.1-2017
CallOffered	The call has been offered to one or more agents (i.e., the phone rang)	APCO NENA 2.105.1-2017
CallReceived	The call handling FE has received an "INVITE" for a new call from the terminating ESRP that has not yet been offered to an agent (i.e., is in a queue)	APCO NENA 2.105.1-2017
Error	The emergency call terminated unexpectedly (was disconnected)	APCO NENA 2.105.1-2017
Hangup	The emergency call was terminated by the caller before being answered	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
IMR	The emergency call is at the IMR	APCO NENA 2.105.1-2017
Transferred	The emergency call was transferred to a different agency	APCO NENA 2.105.1-2017

4.7. Common Disposition Code

The "Common Disposition Code" data element is described in Section 2.10(Disposition Information Data Component) of this document.

4.7.1. Registry Management Policy

The primary values for this registry are taken from APCO ANS 1.111.1-2013: Public Safety Communications Common Disposition Codes for Data Exchange. When that APCO standard is superseded, then the registry shall be updated accordingly. The registry shall be updated within 30 days of ANSI approval of the revised standard.

4.7.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.7.3. Initial Values

The initial values of the Common Disposition Code registry are described in APCO ANS 1.111.1-2013: Public Safety Communications Common Disposition Codes for Data Exchange, where value is taken from the first column ("Dispo Code"), the short description is taken from the second column ("Disposition Descriptor") and the document reference is APCO ANS 1.111.1-2013.

4.8. Person Role

The "Person Role" data element is described in Section 2.12 (Person Information Data Component) of this document.

4.8.1. Registry Management Policy

This registry shall be managed using the "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert, as defined in NENA-STA-008.2-2014, shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.8.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.8.3. Initial Values

The initial Person registry entries are:

Value	Literal Description	Reference
InvolvedPerson	Person described in the Person Information data component is involved in the incident. Used when no other relationship is known	APCO NENA 2.105.1-2017
Patient	Person described in the Person Information data component is involved in the incident as a patient	APCO NENA 2.105.1-2017
PatientAcquaintance	Person described in the Person Information data component is an acquaintance of a patient involved in the incident	APCO NENA 2.105.1-2017
PatientRelative	Person described in the Person Information data component is a relative of a patient involved in the incident	APCO NENA 2.105.1-2017
PersonOfInterest	Person described in the Person Information data component is involved in the incident as a person of interest	APCO NENA 2.105.1-2017
ReportingParty	Person described in the Person Information data component is involved in the incident as a reporting party	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
Suspect	Person described in the Person Information data component is involved in the incident as a suspect	APCO NENA 2.105.1-2017
Victim	Person described in the Person Information data component is involved in the incident as a victim	APCO NENA 2.105.1-2017
VictimAcquaintance	Person described in the Person Information data component is an acquaintance of a victim involved in the incident	APCO NENA 2.105.1-2017
VictimRelative	Person described in the Person Information data component is a relative of a victim involved in the incident	APCO NENA 2.105.1-2017
Witness	Person described in the Person Information data component is involved in the incident as a witness	APCO NENA 2.105.1-2017

4.9. Vehicle Relationship Type

The "Vehicle Relationship Type" data element is described in Section 2.14 (Vehicle Information Data Component) of this document.

4.9.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.9.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.

- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.9.3. Initial Values

The initial Vehicle Relationship Type registry entries are:

Value	Literal Description	Reference
AccidentVehicle	The vehicle described in the Vehicle Information data component is involved in the incident as an accident vehicle	APCO NENA 2.105.1-2017
InvolvedVehicle	The vehicle described in the Vehicle Information data component is involved in the incident. Used when no other relationship is known	APCO NENA 2.105.1-2017
SuspectVehicle	The vehicle described in the Vehicle Information data component is involved in the incident as a suspect's vehicle	APCO NENA 2.105.1-2017
VictimVehicle	The vehicle described in the Vehicle Information data component is involved in the incident as a victim's vehicle	APCO NENA 2.105.1-2017
WitnessVehicle	The vehicle described in the Vehicle Information data component is involved in the incident as a witness's vehicle	APCO NENA 2.105.1-2017

4.10. Location Type

The "Location Type" data element is described in Section 2.15 (Location Information Data Component) of this document.

4.10.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a

proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.10.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.10.3. Initial Values

The initial Location Type registry entries are:

Value	Literal Description	Reference
Caller	The Location Information data component contains the caller's location	APCO NENA 2.105.1-2017
CurrentIncident	The Location Information data component contains the current location of the incident	APCO NENA 2.105.1-2017
Initial	The Location Information data component contains the initial incident's location	APCO NENA 2.105.1-2017
Investigation	The Location Information data component contains the incident's investigation location	APCO NENA 2.105.1-2017
Other	Location is unspecified	APCO NENA 2.105.1-2017
Staging	The Location Information data component contains a staging location for emergency responders assigned to the incident	APCO NENA 2.105.1-2017
TowerLocation	The Location Information data component contains the location of a cell tower that processed the call	APCO NENA 2.105.1-2017
UnitLocation	The Location Information data component contains the location of an emergency responder	APCO NENA 2.105.1-2017

4.11. Primary Unit Status-Common

The "Primary Unit Status-Common" data element is described in Section 2.16 (Emergency Resource Information Data Component) of this document.[8]

4.11.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.11.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.11.3. Initial Values

The initial Primary Unit Status registry entries are:

Value	Literal Description	Reference
Available	Emergency Unit is available for Dispatch	APCO NENA 2.105.1-2017
ConditionallyAvailable	Emergency Unit is assigned to an activity, but is available for dispatch or reassignment	APCO NENA 2.105.1-2017
NotAvailable	Emergency Unit is not available for Dispatch and cannot be assigned to a call	APCO NENA 2.105.1-2017

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[8] The purpose of the common (global) primary unit statuses is to enable an agency that needs a particular type of resource to ascertain the availability of that resource in a different agency and to either request that resource from the agency that owns it (mutual aid) or to assign it to an incident (automatic aid). In most situations, agreements are structured between the two agencies enabling automatic and mutual aid.

4.12. Secondary Unit Status-Common

The "Secondary Unit Status-Common" data element is described in Section 2.16 (Emergency Resource Information Data Component) of this document.[9]

4.12.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.12.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.12.3. Initial Values

The initial Secondary Unit Status-Common registry entries are:

Value	Literal Description	Reference
AcknowledgedTransmission	Emergency unit acknowledged receipt of a dispatch/assignment	APCO NENA 2.105.1-2017

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[9] The purpose of the common (global) secondary unit statuses is to enable an agency that needs a particular type of resource to ascertain the availability of that resource in a different agency and to either request that resource from the agency that owns it (mutual aid) or to assign it to an incident (automatic aid). Note that this decision depends on both the primary and secondary unit statuses. In most situations, agreements are structured between the two agencies enabling automatic and mutual aid. The goal of the registry is to only include in it distinct entries that are readily identifiable. Multiple secondary statuses should be used to specify complex situations such as a unit en route to an alternate location associated with an incident. Assigning both the "EnRoute" and "AlternateLocation" secondary statuses to the unit is an example of secondary statuses that may be used to document this situation. Secondary statuses may be used to indicate either when a particular unit activity occurred (assignment cancelled) and/or when the unit's status has changed (en route).

Value	Literal Description	Reference
AlternateLocation	Emergency unit is at an alternate location when used as a standalone secondary status or is en route to, transporting to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
Arrived	Emergency unit arrived at the incident location or at some other location	APCO NENA 2.105.1-2017
Assigned	Emergency unit has been assigned to an incident or to some other event	APCO NENA 2.105.1-2017
AssignmentCancelled	Emergency unit's assignment to an activity has been cancelled. This is an observation useful for tracking unit history and incident progress	APCO NENA 2.105.1-2017
BacktoAssignedArea	Emergency unit is back to patrolling or covering its assigned area, beat, or district. This is an observation useful for tracking unit history	APCO NENA 2.105.1-2017
Backup	Emergency unit is backing up another emergency unit on an incident	APCO NENA 2.105.1-2017
Break	Emergency unit is on a break	APCO NENA 2.105.1-2017
CheckedIn	Emergency unit checked in with its dispatcher. This is an observation useful for tracking unit history and incident progress	APCO NENA 2.105.1-2017
Cleared	Emergency unit cleared the incident location or some other location	APCO NENA 2.105.1-2017
COP_or_POP	Emergency unit is involved in Community Oriented Policing or Problem Oriented Policing activities	APCO NENA 2.105.1-2017
Court	Emergency unit is assigned to Court	APCO NENA 2.105.1-2017
CoveringAlternateArea	Emergency unit is patrolling, has moved up, or is covering an alternate area, beat, station, or district when used as a standalone secondary status or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
Delayed	Emergency unit is delayed from arriving at the incident's location or some other location	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
Departed	Emergency unit has departed a location, where another, simultaneously assigned, secondary unit status-common describes the destination (e.g., Departed and Court)	APCO NENA 2.105.1-2017
Dispatched	Emergency unit has been dispatched to an incident or some other event	APCO NENA 2.105.1-2017
EnRoute	Emergency unit is en route to an incident location or some other location	APCO NENA 2.105.1-2017
EquipmentIssues	Emergency unit is experiencing equipment issues	APCO NENA 2.105.1-2017
Event	Emergency unit is at an event (parade, concert, etc.) when used as a standalone secondary status-common or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
Hospital	Emergency unit is at the hospital when used as a standalone secondary unit status-common or is en route to, transporting to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
InService	Emergency unit is in service	APCO NENA 2.105.1-2017
Investigation	Emergency unit is assigned to investigate an active or closed incident	APCO NENA 2.105.1-2017
Location	A location other than the incident that is used with en route, arrived, etc.	APCO NENA 2.105.1-2017
Meal	Emergency unit is at lunch, dinner, breakfast or some other meal	APCO NENA 2.105.1-2017
Meeting	Emergency unit is involved in a meeting when used as a standalone secondary unit status-common or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
OffDuty	Emergency Unit is off duty	APCO NENA 2.105.1-2017
OnDuty	Emergency unit is on duty	APCO NENA 2.105.1-2017
OnScene	Emergency Unit is located at the scene (location) of the incident	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
OutofService	Emergency unit is out of service	APCO NENA 2.105.1-2017
PatientContact	Emergency responders made contact with a patient involved in the incident. This is an observation useful for tracking unit history and incident progress	APCO NENA 2.105.1-2017
Post	Emergency unit is at a post when used as a standalone secondary unit status-common or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
ResponderInitiatedEvent	Emergency unit is on a self initiated event that is not a traffic stop	APCO NENA 2.105.1-2017
RollCall	Emergency unit is at Roll Call when used as a standalone secondary unit status-common or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
Roster	Emergency unit has automatically been activated, but is not yet available and has not checked in	APCO NENA 2.105.1-2017
ShiftPending	Emergency unit's end of shift is pending	APCO NENA 2.105.1-2017
Staging	Emergency unit is at an incident's staging location when used as a standalone secondary unit status-common or is en route to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
Station	Emergency unit is at its headquarters, station, or substation when used as a standalone secondary unit status-common or is en route to, transporting to, arrived at, etc. when used in combination with another secondary unit status-common	APCO NENA 2.105.1-2017
TrafficStop	Emergency unit is on scene at a self initiated traffic stop	APCO NENA 2.105.1-2017
Training	Emergency unit and responders are participating in a training activity	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
Transporting	Emergency unit is transporting or escorting a person or equipment to a location or destination	APCO NENA 2.105.1-2017
Unmanned	Emergency unit is not adequately staffed	APCO NENA 2.105.1-2017

4.13. Emergency Resource Type-Common

The "Emergency Resource Type - Common" data element is described in Section 2.16 (Emergency Resource Information Data Component) of this document.

4.13.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.13.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.13.3. Initial Values

The initial Emergency Resource Type-Common registry entries are:

Value	Literal Description	Reference
AirAmbulanceFixedWing	Air Ambulance (Fixed-Wing)	APCO NENA 2.105.1-2017
AirAmbulanceRotaryWing	Air Ambulance (Rotary-Wing)	APCO NENA 2.105.1-2017
AirSearchTeam	Air Search Team	APCO NENA 2.105.1-2017
AirborneCommunicationRelayTe	Airborne Communications Relay Team	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
amFixed	(Fixed-Wing)	
FixedWingAircraft	Aircraft, Fixed Wing	APCO NENA 2.105.1-2017
RotaryWingAircraft	Aircraft, Rotary Wing	APCO NENA 2.105.1-2017
AirborneTransportTeamFixedWing	Airborne Transport Team (Fixed-Wing)	APCO NENA 2.105.1-2017
AirCompressor	Air Compressor and Air Refilling	APCO NENA 2.105.1-2017
AirConditioner-Heater	Air Conditioner/ Heater	APCO NENA 2.105.1-2017
ATV	All Terrain Vehicle	APCO NENA 2.105.1-2017
GroundALSAmbulance	Ambulance, Advance Life Support (Ground)	APCO NENA 2.105.1-2017
LargeAnimalRescueTeam	Large Animal (horse, cow, etc.) Rescue Team	APCO NENA 2.105.1-2017
LargeAnimalShelteringTeam	Large Animal (horse, cow, etc.) Sheltering Team	APCO NENA 2.105.1-2017
LargeAnimalTransportTeam	Large Animal (horse, cow, etc.) Transport Team	APCO NENA 2.105.1-2017
SmallAnimalRescueTeam	Small Animal (cat, dog, etc.) Rescue Team	APCO NENA 2.105.1-2017
SmallAnimalShelteringTeam	Small Animal (cat, dog, etc.) Sheltering Team	APCO NENA 2.105.1-2017
SmallAnimalTransportTeam	Small Animal (cat, dog, etc.) Transport Team	APCO NENA 2.105.1-2017
AssaultHomicideUnit	Assault / Homicide Unit	APCO NENA 2.105.1-2017
GroundBLSAmbulance	Ambulance, Basic Life Support (Ground)	APCO NENA 2.105.1-2017
BikeTeam	Bike Team	APCO NENA 2.105.1-2017
BombSquad	Bomb Squad/Explosives Team	APCO NENA 2.105.1-2017
BrushFireEngineType3	Type 3 Brush Fire Engine (120GPM, 500 gal tank, 1000' 1.5" or larger, 800' 1 " or larger, 3 crew members)	APCO NENA 2.105.1-2017
BrushFireEngineType4	Type 4 Brush Fire Engine (70 GPM, 750 Gal tank, 300' 1.5" & 300' 1" or larger, 3 crew members)	APCO NENA 2.105.1-2017
BrushFireEngineType5	Type 5 Brush Fire Engine (50 GPM, 500 Gal, 300' 1.5" & 300' 1" or larger, 3 crew members)	APCO NENA 2.105.1-2017
BrushFireEngineType6	Type 6 Brush Fire Engine (50 GPM, 200 Gal, 300' 1.5" & 300' 1" or larger, 2 crew members)	APCO NENA 2.105.1-2017
BrushFireEngineType7	Type 7 Brush Fire Engine (20 GPM, 125 Gal tank, 200 and 200' on 1.5 and 1" hose, 2 crew members)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
Bus	Buses	APCO NENA 2.105.1-2017
CanineSearchandRescue	Canine Search and Rescue Team	APCO NENA 2.105.1-2017
DisasterCollapsedStructureCanineTech	Disaster Collapsed Structure Canine Search Technician	APCO NENA 2.105.1-2017
CaveSearchandRescue	Cave Search and Rescue Team	APCO NENA 2.105.1-2017
CivilServiceOfficer	Civil Service Officer	APCO NENA 2.105.1-2017
CoastGuard	Coast Guard Search and Rescue	APCO NENA 2.105.1-2017
CollapseSearchandRescue	Collapse Search and Rescue Teams	APCO NENA 2.105.1-2017
CommandLevel4	Initial Responding Resources that arrive on scene	APCO NENA 2.105.1-2017
CommandLevel3	Field Supervisor (patrol sergeant, detective sergeant, battalion chief, etc.)	APCO NENA 2.105.1-2017
CommandLevel2	Section, Precinct or Division Chief/Commander	APCO NENA 2.105.1-2017
CommandLevel1	Department/Agency chief, sheriff, deputy chief, assistant chief, etc.	APCO NENA 2.105.1-2017
CommSupportTeam	Communications Support Team	APCO NENA 2.105.1-2017
CommunityPolicingUnit	Community/Neighborhood Policing Unit	APCO NENA 2.105.1-2017
Crane	Crane	APCO NENA 2.105.1-2017
CrisisInterventionUnit	Crisis Intervention Unit	APCO NENA 2.105.1-2017
ResponderCrewTransport	Responder Crew/Team Transport	APCO NENA 2.105.1-2017
DetoxTransort	Detox Transport	APCO NENA 2.105.1-2017
UnmannedAerialVehicle	Unmanned Aerial Vehicle (Drone)	APCO NENA 2.105.1-2017
ElectronicBoard	Electronic Board	APCO NENA 2.105.1-2017
FireBoat	Fire Boat	APCO NENA 2.105.1-2017
FireTruckLadder	Fire Truck - Aerial (Ladder or Platform)	APCO NENA 2.105.1-2017
FireFoamTender	Foam Tender, Firefighting	APCO NENA 2.105.1-2017
FoamTank	Foam Tank	APCO NENA 2.105.1-2017
ForensicEvidence	Forensic Evidence	APCO NENA 2.105.1-2017
FuelTender	Fuel Tender (Gasoline, Diesel, AvGas, aka Gas Tanker)	APCO NENA 2.105.1-2017
GangEnforcement	Gang Enforcement	APCO NENA 2.105.1-2017
HazMatTeam	HazMat Entry Team	APCO NENA 2.105.1-2017
FireHelicopter	Helicopters, Firefighting	APCO NENA 2.105.1-2017
HeavyRescue	Heavy Rescue Apparatus	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
IncidentManagementTeam	Incident Management Team	APCO NENA 2.105.1-2017
Investigator	Investigator	APCO NENA 2.105.1-2017
LawEnforcementCommandUnit	Law Enforcement Command Unit	APCO NENA 2.105.1-2017
PatrolUnit	Law Enforcement Patrol Unit	APCO NENA 2.105.1-2017
SchoolOfficer	Law Enforcement School Officer	APCO NENA 2.105.1-2017
LightRescue	Light Rescue Apparatus (Jeep and Other Vehicles)	APCO NENA 2.105.1-2017
MaintenanceandRepairTeam	Maintenance and Repair Team - Light Equipment Public Works	APCO NENA 2.105.1-2017
ParkingEnforcement	Parking Enforcement	APCO NENA 2.105.1-2017
MobileCommunicationCenter	Mobile Communications Center (Also referred to as "Mobile EOC")	APCO NENA 2.105.1-2017
MobileSupportVehicle	Mobile Support Vehicle	APCO NENA 2.105.1-2017
CrowdControlTeam	Law Enforcement Crowd Control Team	APCO NENA 2.105.1-2017
MountedPatrol	Mounted Patrol	APCO NENA 2.105.1-2017
MountainSearchandRescueTeam	Mountain Search and Rescue Team	APCO NENA 2.105.1-2017
MedicalTransportVehicle	Multi-Patient Medical Transport Vehicle	APCO NENA 2.105.1-2017
ParkRanger	Park Ranger	APCO NENA 2.105.1-2017
DiveTeam	Public Safety Dive Team	APCO NENA 2.105.1-2017
RapidResponseSpecialist	Rapid Response Specialist	APCO NENA 2.105.1-2017
RoadSweeper	Road Sweeper	APCO NENA 2.105.1-2017
SafetyOfficer	Safety Officer/Chief	APCO NENA 2.105.1-2017
SnowBlower	Snow Blower	APCO NENA 2.105.1-2017
SnowCat	Snow Cat	APCO NENA 2.105.1-2017
StructureFireEngineType1	Type 1 Structure Fire Engine (1000 GPM, 400 Gal tank, 1200' 2.5" hose or larger, 400' 1.5" hose or larger (attack line), 200' 1" hose or larger, ladder 20' or longer, 500GPM master stream, and 4 crew members)	APCO NENA 2.105.1-2017
StructureFireEngineType2	Type 2 Structure Fire Engine (500GPM, 400 Gal Tank, hose 1000', 5400', 300' respectively, ladder 20' or longer, no master stream and 3 crew members)	APCO NENA 2.105.1-2017
SWAT	SWAT/Tactical Teams	APCO NENA 2.105.1-2017
SwiftwaterRescueTeam	Swiftwater/Flood Search and Rescue Team	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
VehicularCrimesTeam	Vehicular Crimes Team	APCO NENA 2.105.1-2017
Veterinarian	Veterinarian	APCO NENA 2.105.1-2017
WaterRescueTeam	Ocean/Lake/Other Water Body Rescue Team	APCO NENA 2.105.1-2017
TrafficUnit	Traffic Unit/Officer	APCO NENA 2.105.1-2017
TransitOfficer	Transit Officer/Deputy	APCO NENA 2.105.1-2017
DumpTruck	Truck, Dump	APCO NENA 2.105.1-2017
TowTruck	Truck, Tow (Wrecker)	APCO NENA 2.105.1-2017
PlowTruck	Truck, Plow	APCO NENA 2.105.1-2017
TugBoat	Tug Boat (General)	APCO NENA 2.105.1-2017
VictimAdvocate	Victim Advocate Unit	APCO NENA 2.105.1-2017
DeWateringWaterPump	Water Pumps, De-Watering	APCO NENA 2.105.1-2017
WasteWaterPump	Water Pumps, Wastewater	APCO NENA 2.105.1-2017
FireWaterTender	Water Tender, Firefighting (Tanker)	APCO NENA 2.105.1-2017
WaterTruck	Truck, Water	APCO NENA 2.105.1-2017
WheelDozer	Wheel Dozer	APCO NENA 2.105.1-2017
WheelLoaderBackhoe	Wheel Loader Backhoe	APCO NENA 2.105.1-2017
WheelLoader	Wheel Loaders	APCO NENA 2.105.1-2017
WheelLoaderSkidSteer	Wheel Loaders, Skid Steer	APCO NENA 2.105.1-2017
WoodChipper	Wood Chipper	APCO NENA 2.105.1-2017
WildlandTaskForce	Wild Land Task Force	APCO NENA 2.105.1-2017
StrikeTeam	Strike Team	APCO NENA 2.105.1-2017
HotShotTeam	Hot Shot Team	APCO NENA 2.105.1-2017

4.14. Resource Attribute

The "Resource Attribute" data element is described in Section 2.16 (Emergency Resource Information Data Component) of this document.

4.14.1. Registry Management Policy

This registry shall be managed with "Expert Review" and "Specification Required" policies as described in NENA-STA-008.2-2014.

The Expert shall assess whether the proposed value is sufficiently distinct from existing values and whether the document is clear on when the proposed new value should be used instead of existing values. Proposed additions should have sufficient general use; vendor specific or regional specific values

are highly discouraged. The frequency of change of this registry should be controlled to no more than approximately once every six months, but the Expert should consider the consequences of delaying a proposed change and may approve a change in less than six months from the prior change if it is warranted.

4.14.2. Registry Content

This registry contains:

- The UTF-8 "Value" of the entry.
- A short description of the meaning of the value.
- A reference to the document that created the entry.

4.14.3. Initial Values

The initial Resource Attribute registry[10] entries are:

Value	Literal Description	Reference
AdvancedEMT	Advanced Emergency Medical Technician	APCO NENA 2.105.1-2017
AdvancedPRN	Advanced Practice Registered Nurse (Nurse Practitioner)	APCO NENA 2.105.1-2017
ReconAircraft	Aircraft, Reconnaissance, manhunts and surveillance, surveys	APCO NENA 2.105.1-2017
SearchandRescueAircraft	Aircraft, Search and Rescue	APCO NENA 2.105.1-2017
PursuitAircraft	Aircraft, Pursuit	APCO NENA 2.105.1-2017
AerialPhotographyAircraft	Aircraft, Aerial Photography	APCO NENA 2.105.1-2017
TransportAircraft	Aircraft, Transport	APCO NENA 2.105.1-2017
AirBags	Air Bags (special equipment)	APCO NENA 2.105.1-2017
AirMedicalTransportParamedic	Air Medical Transport Paramedic	APCO NENA 2.105.1-2017
AirMedicalTransportPhysician	Air Medical Transport Physician	APCO NENA 2.105.1-2017
AirMedicalTransportPilot	Air Medical Transport Pilot	APCO NENA 2.105.1-2017
AirMedicalTransportNurse	Air Medical Transport Registered Nurse	APCO NENA 2.105.1-2017
AirportFirefighter	Airport Firefighter	APCO NENA 2.105.1-2017
AmbulanceStrikeTeamLeader	Ambulance Strike Team / Ambulance Task	APCO NENA 2.105.1-2017

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[10] Language codes contained in this registry are based on ISO 639-2. ISO 639-2 is the alpha-3 code in *Codes for the representation of names of languages-- Part 2*. There are 21 languages that have alternative codes for bibliographic or terminology purposes. In those cases, each is listed separately and they are designated as "B" (bibliographic) or "T" (terminology). In all other cases, there is only one ISO 639-2 code. Multiple codes assigned to the same language are to be considered synonyms. ISO 639-1 is the alpha-2 code.

Value	Literal Description	Reference
	Force Leader	
AnimalCaseManager	Animal Case Manager	APCO NENA 2.105.1-2017
AnimalControlSpecialist	Animal Control Specialist	APCO NENA 2.105.1-2017
AnimalDiseaseEpidemiologist	Animal Disease Epidemiologist	APCO NENA 2.105.1-2017
AnimalHandlingSpecialist	Animal Handling Specialist	APCO NENA 2.105.1-2017
AnimalTechnician	Animal Technician	APCO NENA 2.105.1-2017
Bicycle	Bicycle	APCO NENA 2.105.1-2017
CarbonMonoxideDetector	Carbon Monoxide Detector	APCO NENA 2.105.1-2017
CivilFieldEngineer	Civil/Field Engineer	APCO NENA 2.105.1-2017
CrisisInterventionSpecialist	Crisis Intervention Specialist	APCO NENA 2.105.1-2017
ConfinedSpaceRescueEquipBasic	Confined Space Rescue Equipment - Basic	APCO NENA 2.105.1-2017
ConfinedSpaceRescueEquipAdvanced	Confined Space Rescue Equipment - Advanced	APCO NENA 2.105.1-2017
ConcreteCutter	Concrete Cutter	APCO NENA 2.105.1-2017
DiveTeam	Certified Dive Team Member	APCO NENA 2.105.1-2017
DrugRecognitionExpert	Drug Recognition Expert	APCO NENA 2.105.1-2017
DrugK9	Drug Canine	APCO NENA 2.105.1-2017
ElectronicArrowBoard	Electronic Arrow Board	APCO NENA 2.105.1-2017
ElectronicVariableMessageBoard	Electronic Variable Message Board	APCO NENA 2.105.1-2017
EmergencyVehicleOperator	Emergency Vehicle Operator	APCO NENA 2.105.1-2017
EmergencyVehicleOperatorHeavy	Emergency Vehicle Operator - Heavy	APCO NENA 2.105.1-2017
EMSPhysician	EMS Physician	APCO NENA 2.105.1-2017
EMT	Emergency Medical Technician	APCO NENA 2.105.1-2017
ExplosiveK9	Explosive Canine	APCO NENA 2.105.1-2017
ExtricationEquipmentBasic	Extrication Equipment - Basic	APCO NENA 2.105.1-2017
ExtricationEquipmentAdvanced	Extrication Equipment - Advanced	APCO NENA 2.105.1-2017
FireApparatusDriver_Operator	Fire Apparatus Driver/Operator	APCO NENA 2.105.1-2017
FireInspector	Fire Inspector	APCO NENA 2.105.1-2017
Firefighter	Firefighter	APCO NENA 2.105.1-2017
FLIR	FLIR Thermal Imaging	APCO NENA 2.105.1-2017
Floodlights	Floodlights	APCO NENA 2.105.1-2017
JawsOfLife	Hurst Tool (Jaws of Life)	APCO NENA 2.105.1-2017
Generators	Generators	APCO NENA 2.105.1-2017
HazMatOfficer	HazMat Officer	APCO NENA 2.105.1-2017
HelicopterSearchandRescuePilot	Rotary Pilot	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
HelicopterSearchandRescueTech	Fixed Wing Pilot	APCO NENA 2.105.1-2017
HighAngleRescueEquipment	High Angle Rescue specialist	APCO NENA 2.105.1-2017
HostageNegotiator	Hostage Negotiator	APCO NENA 2.105.1-2017
IceRescueEquipment	Ice Rescue Equipment	APCO NENA 2.105.1-2017
AbkhazianInterpreter	Language Interpreter -- Abkhazian (abk)	APCO NENA 2.105.1-2017
AchineseInterpreter	Language Interpreter -- Achinese (ace)	APCO NENA 2.105.1-2017
AcoliInterpreter	Language Interpreter -- Acoli (ach)	APCO NENA 2.105.1-2017
AdangmeInterpreter	Language Interpreter -- Adangme (ada)	APCO NENA 2.105.1-2017
AdygheAdygeiInterpreter	Language Interpreter -- Adyghe Adygei (ady)	APCO NENA 2.105.1-2017
AfarInterpreter	Language Interpreter -- Afar (aar)	APCO NENA 2.105.1-2017
AfrihiliInterpreter	Language Interpreter -- Afrihili (afh)	APCO NENA 2.105.1-2017
AfrikaansInterpreter	Language Interpreter -- Afrikaans (afr)	APCO NENA 2.105.1-2017
Afro-AsiaticLanguagesInterpreter	Language Interpreter -- Afro-Asiatic Languages (afa)	APCO NENA 2.105.1-2017
AinuInterpreter	Language Interpreter -- Ainu (ain)	APCO NENA 2.105.1-2017
AkanInterpreter	Language Interpreter -- Akan (aka)	APCO NENA 2.105.1-2017
AkkadianInterpreter	Language Interpreter -- Akkadian (akk)	APCO NENA 2.105.1-2017
AlbanianInterpreter	Language Interpreter -- Albanian (alb (B))	APCO NENA 2.105.1-2017
AleutInterpreter	Language Interpreter -- Aleut (ale)	APCO NENA 2.105.1-2017
AlgonquianLanguagesInterpreter	Language Interpreter -- Algonquian Languages (alg)	APCO NENA 2.105.1-2017
AltaicLanguagesInterpreter	Language Interpreter -- Altaic Languages (tut)	APCO NENA 2.105.1-2017
AmharicInterpreter	Language Interpreter -- Amharic (amh)	APCO NENA 2.105.1-2017
AngikaInterpreter	Language Interpreter -- Angika (anp)	APCO NENA 2.105.1-2017
ApachelanguagesInterpreter	Language Interpreter -- Apache languages (apa)	APCO NENA 2.105.1-2017
ArabicInterpreter	Language Interpreter -- Arabic (ara)	APCO NENA 2.105.1-2017
AragoneseInterpreter	Language Interpreter -- Aragonese (arg)	APCO NENA 2.105.1-2017
AramaicInterpreter	Language Interpreter -- Aramaic (arc)	APCO NENA 2.105.1-2017
ArapahoInterpreter	Language Interpreter -- Arapaho (arp)	APCO NENA 2.105.1-2017
ArawakInterpreter	Language Interpreter -- Arawak (arw)	APCO NENA 2.105.1-2017
ArmenianInterpreter	Language Interpreter -- Armenian (arm (B))	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
AromanianArumanianMacedo-RomanianInterpreter	Language Interpreter -- Aromanian Arumanian Macedo-Romanian (rup)	APCO NENA 2.105.1-2017
AssameseInterpreter	Language Interpreter -- Assamese (asm)	APCO NENA 2.105.1-2017
AsturianBableLeoneseAsturleoneseInterpreter	Language Interpreter -- Asturian Bable Leonese Asturleonese (ast)	APCO NENA 2.105.1-2017
AthapascanLanguagesInterpreter	Language Interpreter -- Athapascan Languages (ath)	APCO NENA 2.105.1-2017
AustronesianLanguagesInterpreter	Language Interpreter -- Austronesian Languages (map)	APCO NENA 2.105.1-2017
AvaricInterpreter	Language Interpreter -- Avaric (ava)	APCO NENA 2.105.1-2017
AvestanInterpreter	Language Interpreter -- Avestan (ave)	APCO NENA 2.105.1-2017
AwadhiInterpreter	Language Interpreter -- Awadhi (awa)	APCO NENA 2.105.1-2017
AymaraInterpreter	Language Interpreter -- Aymara (aym)	APCO NENA 2.105.1-2017
AzerbaijaniInterpreter	Language Interpreter -- Azerbaijani (aze)	APCO NENA 2.105.1-2017
BalineseInterpreter	Language Interpreter -- Balinese (ban)	APCO NENA 2.105.1-2017
BalticLanguagesInterpreter	Language Interpreter -- Baltic Languages (bat)	APCO NENA 2.105.1-2017
BaluchiInterpreter	Language Interpreter -- Baluchi (bal)	APCO NENA 2.105.1-2017
BambaraInterpreter	Language Interpreter -- Bambara (bam)	APCO NENA 2.105.1-2017
BamilekeLanguagesInterpreter	Language Interpreter -- Bamileke Languages (bai)	APCO NENA 2.105.1-2017
BandaLanguagesInterpreter	Language Interpreter -- Banda Languages (bad)	APCO NENA 2.105.1-2017
BantuLanguagesInterpreter	Language Interpreter -- Bantu Languages (bnt)	APCO NENA 2.105.1-2017
BasaInterpreter	Language Interpreter -- Basa (bas)	APCO NENA 2.105.1-2017
BashkirInterpreter	Language Interpreter -- Bashkir (bak)	APCO NENA 2.105.1-2017
BasqueInterpreter	Language Interpreter -- Basque (baq (B))	APCO NENA 2.105.1-2017
BatakLanguagesInterpreter	Language Interpreter -- Batak Languages (btk)	APCO NENA 2.105.1-2017
BejaBedawiyetInterpreter	Language Interpreter -- Beja Bedawiyet (bej)	APCO NENA 2.105.1-2017
BelarusianInterpreter	Language Interpreter -- Belarusian (bel)	APCO NENA 2.105.1-2017
BembaInterpreter	Language Interpreter -- Bemba (bem)	APCO NENA 2.105.1-2017
BengaliInterpreter	Language Interpreter -- Bengali (ben)	APCO NENA 2.105.1-2017
BerberLanguagesInterpreter	Language Interpreter -- Berber Languages	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
	(ber)	
BhojpuriInterpreter	Language Interpreter -- Bhojpuri (bho)	APCO NENA 2.105.1-2017
BihariLanguagesInterpreter	Language Interpreter -- Bihari Languages (bih)	APCO NENA 2.105.1-2017
BikolInterpreter	Language Interpreter -- Bikol (bik)	APCO NENA 2.105.1-2017
BiniEdoInterpreter	Language Interpreter -- Bini Edo (bin)	APCO NENA 2.105.1-2017
BislamaInterpreter	Language Interpreter -- Bislama (bis)	APCO NENA 2.105.1-2017
BlinBilinInterpreter	Language Interpreter -- Blin Bilin (byn)	APCO NENA 2.105.1-2017
BlissymbolsBlissymbolicsBlissInterpreter	Language Interpreter -- Blissymbols Blissymbolics Bliss (zbl)	APCO NENA 2.105.1-2017
BosnianInterpreter	Language Interpreter -- Bosnian (bos)	APCO NENA 2.105.1-2017
BrajInterpreter	Language Interpreter -- Braj (bra)	APCO NENA 2.105.1-2017
BretonInterpreter	Language Interpreter -- Breton (bre)	APCO NENA 2.105.1-2017
BugineseInterpreter	Language Interpreter -- Buginese (bug)	APCO NENA 2.105.1-2017
BulgarianInterpreter	Language Interpreter -- Bulgarian (bul)	APCO NENA 2.105.1-2017
BuriatInterpreter	Language Interpreter -- Buriat (bua)	APCO NENA 2.105.1-2017
BurmeseInterpreter	Language Interpreter -- Burmese (bur (B))	APCO NENA 2.105.1-2017
CaddoInterpreter	Language Interpreter -- Caddo (cad)	APCO NENA 2.105.1-2017
CatalanValencianInterpreter	Language Interpreter -- Catalan Valencian (cat)	APCO NENA 2.105.1-2017
CaucasianLanguagesInterpreter	Language Interpreter -- Caucasian languages (cau)	APCO NENA 2.105.1-2017
CebuanoInterpreter	Language Interpreter -- Cebuano (ceb)	APCO NENA 2.105.1-2017
CelticLanguagesInterpreter	Language Interpreter -- Celtic Languages (cel)	APCO NENA 2.105.1-2017
CentralAmericanIndianLanguagesInterpreter	Language Interpreter -- Central American Indian Languages (cai)	APCO NENA 2.105.1-2017
CentralKhmerInterpreter	Language Interpreter -- Central Khmer (khm)	APCO NENA 2.105.1-2017
ChagataiInterpreter	Language Interpreter -- Chagatai (chg)	APCO NENA 2.105.1-2017
ChamicLanguagesInterpreter	Language Interpreter -- Chamic Languages (cmc)	APCO NENA 2.105.1-2017
ChamorroInterpreter	Language Interpreter -- Chamorro (cha)	APCO NENA 2.105.1-2017
ChechenInterpreter	Language Interpreter -- Chechen (che)	APCO NENA 2.105.1-2017
CherokeeInterpreter	Language Interpreter -- Cherokee (chr)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
CheyenneInterpreter	Language Interpreter -- Cheyenne (chy)	APCO NENA 2.105.1-2017
ChibchaInterpreter	Language Interpreter -- Chibcha (chb)	APCO NENA 2.105.1-2017
ChichewaChewaNyanjaInterpreter	Language Interpreter -- Chichewa Chewa Nyanja (nya)	APCO NENA 2.105.1-2017
ChineseInterpreter	Language Interpreter -- Chinese (chi (B))	APCO NENA 2.105.1-2017
ChinookJargonInterpreter	Language Interpreter -- Chinook Jargon (chn)	APCO NENA 2.105.1-2017
ChipewyanDeneSulineInterpreter	Language Interpreter -- Chipewyan Dene Suline (chp)	APCO NENA 2.105.1-2017
ChoctawInterpreter	Language Interpreter -- Choctaw (cho)	APCO NENA 2.105.1-2017
ChuukeseInterpreter	Language Interpreter -- Chuukese (chk)	APCO NENA 2.105.1-2017
ChuvashInterpreter	Language Interpreter -- Chuvash (chv)	APCO NENA 2.105.1-2017
ClassicalNewariOldNewariClassicalNepalBhasaInterpreter	Language Interpreter -- Classical Newari Old Newari Classical Nepal Bhasa (nwc)	APCO NENA 2.105.1-2017
ClassicalSyriacInterpreter	Language Interpreter -- Classical Syriac (syc)	APCO NENA 2.105.1-2017
CopticInterpreter	Language Interpreter -- Coptic (cop)	APCO NENA 2.105.1-2017
CornishInterpreter	Language Interpreter -- Cornish (cor)	APCO NENA 2.105.1-2017
CorsicanInterpreter	Language Interpreter -- Corsican (cos)	APCO NENA 2.105.1-2017
CreeInterpreter	Language Interpreter -- Cree (cre)	APCO NENA 2.105.1-2017
CreekInterpreter	Language Interpreter -- Creek (mus)	APCO NENA 2.105.1-2017
CreolesPidginsEnglishBasedInterpreter	Language Interpreter -- Creoles Pidgins English Based (cpe)	APCO NENA 2.105.1-2017
CreolesPidginsFrenchBasedInterpreter	Language Interpreter -- Creoles Pidgins French Based (cpf)	APCO NENA 2.105.1-2017
CreolesPidginsInterpreter	Language Interpreter -- Creoles Pidgins (crp)	APCO NENA 2.105.1-2017
CreolesPidginsPortugueseBasedInterpreter	Language Interpreter -- Creoles Pidgins Portuguese Based (cpp)	APCO NENA 2.105.1-2017
CrimeanTatarCrimeanTurkishInterpreter	Language Interpreter -- Crimean Tatar Crimean Turkish (crh)	APCO NENA 2.105.1-2017
CroatianInterpreter	Language Interpreter -- Croatian (hrv)	APCO NENA 2.105.1-2017
CushiticLanguagesInterpreter	Language Interpreter -- Cushitic Languages (cus)	APCO NENA 2.105.1-2017
CzechInterpreter	Language Interpreter -- Czech (cze (B))	APCO NENA 2.105.1-2017
DakotaInterpreter	Language Interpreter -- Dakota (dak)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
DanishInterpreter	Language Interpreter -- Danish (dan)	APCO NENA 2.105.1-2017
DargwaInterpreter	Language Interpreter -- Dargwa (dar)	APCO NENA 2.105.1-2017
DelawareInterpreter	Language Interpreter -- Delaware (del)	APCO NENA 2.105.1-2017
DinkaInterpreter	Language Interpreter -- Dinka (din)	APCO NENA 2.105.1-2017
DivehiDhivehiMaldivianInterpreter	Language Interpreter -- Divehi Dhivehi Maldivian (div)	APCO NENA 2.105.1-2017
DogribInterpreter	Language Interpreter -- Dogrib (dgr)	APCO NENA 2.105.1-2017
DogriInterpreter	Language Interpreter -- Dogri (doi)	APCO NENA 2.105.1-2017
DravidianLanguagesInterpreter	Language Interpreter -- Dravidian Languages (dra)	APCO NENA 2.105.1-2017
DualaInterpreter	Language Interpreter -- Duala (dua)	APCO NENA 2.105.1-2017
DutchFlemishInterpreter	Language Interpreter -- Dutch Flemish (dut (B))	APCO NENA 2.105.1-2017
DyulaInterpreter	Language Interpreter -- Dyula (dyu)	APCO NENA 2.105.1-2017
DzongkhaInterpreter	Language Interpreter -- Dzongkha (dzo)	APCO NENA 2.105.1-2017
EasternFrisianInterpreter	Language Interpreter -- Eastern Frisian (frs)	APCO NENA 2.105.1-2017
EfikInterpreter	Language Interpreter -- Efik (efi)	APCO NENA 2.105.1-2017
EkajukInterpreter	Language Interpreter -- Ekajuk (eka)	APCO NENA 2.105.1-2017
ElamiteInterpreter	Language Interpreter -- Elamite (elx)	APCO NENA 2.105.1-2017
EnglishInterpreter	Language Interpreter -- English (eng)	APCO NENA 2.105.1-2017
ErzyaInterpreter	Language Interpreter -- Erzya (myv)	APCO NENA 2.105.1-2017
EsperantoInterpreter	Language Interpreter -- Esperanto (epo)	APCO NENA 2.105.1-2017
EstonianInterpreter	Language Interpreter -- Estonian (est)	APCO NENA 2.105.1-2017
EweInterpreter	Language Interpreter -- Ewe (ewe)	APCO NENA 2.105.1-2017
EwondoInterpreter	Language Interpreter -- Ewondo (ewo)	APCO NENA 2.105.1-2017
FangInterpreter	Language Interpreter -- Fang (fan)	APCO NENA 2.105.1-2017
FantiInterpreter	Language Interpreter -- Fanti (fat)	APCO NENA 2.105.1-2017
FaroeseInterpreter	Language Interpreter -- Faroese (fao)	APCO NENA 2.105.1-2017
FijianInterpreter	Language Interpreter -- Fijian (fij)	APCO NENA 2.105.1-2017
FilipinoPilipinoInterpreter	Language Interpreter -- Filipino Pilipino (fil)	APCO NENA 2.105.1-2017
FinnishInterpreter	Language Interpreter -- Finnish (fin)	APCO NENA 2.105.1-2017
FinnoUgrianLanguagesInterpreter	Language Interpreter -- Finno Ugrian Languages (fiu)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
FonInterpreter	Language Interpreter -- Fon (fon)	APCO NENA 2.105.1-2017
FrenchInterpreter	Language Interpreter -- French (fre (B))	APCO NENA 2.105.1-2017
FriulianInterpreter	Language Interpreter -- Friulian (fur)	APCO NENA 2.105.1-2017
FulahInterpreter	Language Interpreter -- Fulah (ful)	APCO NENA 2.105.1-2017
GaelicScottishGaelicInterpreter	Language Interpreter -- Gaelic Scottish Gaelic (gla)	APCO NENA 2.105.1-2017
GaInterpreter	Language Interpreter -- Ga (gaa)	APCO NENA 2.105.1-2017
GalibiCaribInterpreter	Language Interpreter -- Galibi Carib (car)	APCO NENA 2.105.1-2017
GalicianInterpreter	Language Interpreter -- Galician (glg)	APCO NENA 2.105.1-2017
GandaInterpreter	Language Interpreter -- Ganda (lug)	APCO NENA 2.105.1-2017
GayoInterpreter	Language Interpreter -- Gayo (gay)	APCO NENA 2.105.1-2017
GbayaInterpreter	Language Interpreter -- Gbaya (gba)	APCO NENA 2.105.1-2017
GeezInterpreter	Language Interpreter -- Geez (gez)	APCO NENA 2.105.1-2017
GeorgianInterpreter	Language Interpreter -- Georgian (geo (B))	APCO NENA 2.105.1-2017
GermanInterpreter	Language Interpreter -- German (ger (B))	APCO NENA 2.105.1-2017
GilberteseInterpreter	Language Interpreter -- Gilbertese (gil)	APCO NENA 2.105.1-2017
GondiInterpreter	Language Interpreter -- Gondi (gon)	APCO NENA 2.105.1-2017
GorontaloInterpreter	Language Interpreter -- Gorontalo (gor)	APCO NENA 2.105.1-2017
GothicInterpreter	Language Interpreter -- Gothic (got)	APCO NENA 2.105.1-2017
GreboInterpreter	Language Interpreter -- Grebo (grb)	APCO NENA 2.105.1-2017
GreekModernInterpreter	Language Interpreter -- Greek Modern (gre (B))	APCO NENA 2.105.1-2017
GuaraniInterpreter	Language Interpreter -- Guarani (grn)	APCO NENA 2.105.1-2017
GujaratiInterpreter	Language Interpreter -- Gujarati (guj)	APCO NENA 2.105.1-2017
GwichinInterpreter	Language Interpreter -- Gwich'in (gwi)	APCO NENA 2.105.1-2017
HaidaInterpreter	Language Interpreter -- Haida (hai)	APCO NENA 2.105.1-2017
HaitianHaitianCreoleInterpreter	Language Interpreter -- Haitian Haitian Creole (hat)	APCO NENA 2.105.1-2017
HausaInterpreter	Language Interpreter -- Hausa (hau)	APCO NENA 2.105.1-2017
HawaiianInterpreter	Language Interpreter -- Hawaiian (haw)	APCO NENA 2.105.1-2017
HebrewInterpreter	Language Interpreter -- Hebrew (heb)	APCO NENA 2.105.1-2017
HereroInterpreter	Language Interpreter -- Herero (her)	APCO NENA 2.105.1-2017
HiligaynonInterpreter	Language Interpreter -- Hiligaynon (hil)	APCO NENA 2.105.1-2017
HimachaliWesternPahariLanguagesInterpreter	Language Interpreter -- Himachali Western Pahari Languages (him)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
HindiInterpreter	Language Interpreter -- Hindi (hin)	APCO NENA 2.105.1-2017
HiriMotuInterpreter	Language Interpreter -- Hiri Motu (hmo)	APCO NENA 2.105.1-2017
HittiteInterpreter	Language Interpreter -- Hittite (hit)	APCO NENA 2.105.1-2017
HmongMongInterpreter	Language Interpreter -- Hmong Mong (hmn)	APCO NENA 2.105.1-2017
HungarianInterpreter	Language Interpreter -- Hungarian (hun)	APCO NENA 2.105.1-2017
HupaInterpreter	Language Interpreter -- Hupa (hup)	APCO NENA 2.105.1-2017
IbanInterpreter	Language Interpreter -- Iban (iba)	APCO NENA 2.105.1-2017
IcelandicInterpreter	Language Interpreter -- Icelandic (ice (B))	APCO NENA 2.105.1-2017
IcelandicInterpreter	Language Interpreter -- Icelandic (ice (B))	APCO NENA 2.105.1-2017
IdoInterpreter	Language Interpreter -- Ido (ido)	APCO NENA 2.105.1-2017
IgboInterpreter	Language Interpreter -- Igbo (ibo)	APCO NENA 2.105.1-2017
IjolanguagesInterpreter	Language Interpreter -- Ijolanguages (ijo)	APCO NENA 2.105.1-2017
IlokoInterpreter	Language Interpreter -- Iloko (ilo)	APCO NENA 2.105.1-2017
InariSamiInterpreter	Language Interpreter -- Inari Sami (smn)	APCO NENA 2.105.1-2017
IndicLanguagesInterpreter	Language Interpreter -- Indic Languages (inc)	APCO NENA 2.105.1-2017
Indo-EuropeanLanguagesInterpreter	Language Interpreter -- Indo-European Languages (ine)	APCO NENA 2.105.1-2017
IndonesianInterpreter	Language Interpreter -- Indonesian (ind)	APCO NENA 2.105.1-2017
IngushInterpreter	Language Interpreter -- Ingush (inh)	APCO NENA 2.105.1-2017
InterlingueOccidentalInterpreter	Language Interpreter -- Interlingue Occidental (ile)	APCO NENA 2.105.1-2017
InuktitutInterpreter	Language Interpreter -- Inuktitut (iku)	APCO NENA 2.105.1-2017
InupiaqInterpreter	Language Interpreter -- Inupiaq (ipk)	APCO NENA 2.105.1-2017
IranianLanguagesInterpreter	Language Interpreter -- Iranian Languages (ira)	APCO NENA 2.105.1-2017
IrishInterpreter	Language Interpreter -- Irish (gle)	APCO NENA 2.105.1-2017
IroquoianLanguagesInterpreter	Language Interpreter -- Iroquoian Languages (iro)	APCO NENA 2.105.1-2017
ItalianInterpreter	Language Interpreter -- Italian (ita)	APCO NENA 2.105.1-2017
JapaneseInterpreter	Language Interpreter -- Japanese (jpn)	APCO NENA 2.105.1-2017
JavaneseInterpreter	Language Interpreter -- Javanese (jav)	APCO NENA 2.105.1-2017
Judeo-ArabicInterpreter	Language Interpreter -- Judeo-Arabic (jrb)	APCO NENA 2.105.1-2017
Judeo-PersianInterpreter	Language Interpreter -- Judeo-Persian (jpr)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
KabardianInterpreter	Language Interpreter -- Kabardian (kbd)	APCO NENA 2.105.1-2017
KabyleInterpreter	Language Interpreter -- Kabyle (kab)	APCO NENA 2.105.1-2017
KachinJingphoInterpreter	Language Interpreter -- Kachin Jingpho (kac)	APCO NENA 2.105.1-2017
KalaallisutGreenlandicInterpreter	Language Interpreter -- Kalaallisut Greenlandic (kal)	APCO NENA 2.105.1-2017
KalmykOiratInterpreter	Language Interpreter -- Kalmyk Oirat (xal)	APCO NENA 2.105.1-2017
KambaInterpreter	Language Interpreter -- Kamba (kam)	APCO NENA 2.105.1-2017
KannadaInterpreter	Language Interpreter -- Kannada (kan)	APCO NENA 2.105.1-2017
KanuriInterpreter	Language Interpreter -- Kanuri (kau)	APCO NENA 2.105.1-2017
Karachay-BalkarInterpreter	Language Interpreter -- Karachay-Balkar (krc)	APCO NENA 2.105.1-2017
Kara-KalpakInterpreter	Language Interpreter -- Kara-Kalpak (kaa)	APCO NENA 2.105.1-2017
KarelianInterpreter	Language Interpreter -- Karelian (krl)	APCO NENA 2.105.1-2017
KarenLanguagesInterpreter	Language Interpreter -- Karen Languages (kar)	APCO NENA 2.105.1-2017
KashmiriInterpreter	Language Interpreter -- Kashmiri (kas)	APCO NENA 2.105.1-2017
KashubianInterpreter	Language Interpreter -- Kashubian (csb)	APCO NENA 2.105.1-2017
KawiInterpreter	Language Interpreter -- Kawi (kaw)	APCO NENA 2.105.1-2017
KazakhInterpreter	Language Interpreter -- Kazakh (kaz)	APCO NENA 2.105.1-2017
KhasiInterpreter	Language Interpreter -- Khasi (kha)	APCO NENA 2.105.1-2017
KhoisanLanguagesInterpreter	Language Interpreter -- Khoisan Languages (khi)	APCO NENA 2.105.1-2017
KhotaneseSakanInterpreter	Language Interpreter -- Khotanese Sakan (kho)	APCO NENA 2.105.1-2017
KikuyuGikuyuInterpreter	Language Interpreter -- Kikuyu Gikuyu (kik)	APCO NENA 2.105.1-2017
KimbunduInterpreter	Language Interpreter -- Kimbundu (kmb)	APCO NENA 2.105.1-2017
KinyarwandaInterpreter	Language Interpreter -- Kinyarwanda (kin)	APCO NENA 2.105.1-2017
KirghizKyrgyzInterpreter	Language Interpreter -- Kirghiz Kyrgyz (kir)	APCO NENA 2.105.1-2017
KlingontlhIngan-HolInterpreter	Language Interpreter -- KlingontlhIngan-Hol (tlh)	APCO NENA 2.105.1-2017
KomiInterpreter	Language Interpreter -- Komi (kom)	APCO NENA 2.105.1-2017
KongoInterpreter	Language Interpreter -- Kongo (kon)	APCO NENA 2.105.1-2017
KonkaniInterpreter	Language Interpreter -- Konkani (kok)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
KoreanInterpreter	Language Interpreter -- Korean (kor)	APCO NENA 2.105.1-2017
KosraeanInterpreter	Language Interpreter -- Kosraean (kos)	APCO NENA 2.105.1-2017
KpelleInterpreter	Language Interpreter -- Kpelle (kpe)	APCO NENA 2.105.1-2017
KruLanguagesInterpreter	Language Interpreter -- Kru Languages (kro)	APCO NENA 2.105.1-2017
KuanyamaKwanyamaInterpreter	Language Interpreter -- Kuanyama Kwanyama (kua)	APCO NENA 2.105.1-2017
KumykInterpreter	Language Interpreter -- Kumyk (kum)	APCO NENA 2.105.1-2017
KurdishInterpreter	Language Interpreter -- Kurdish (kur)	APCO NENA 2.105.1-2017
KurukhInterpreter	Language Interpreter -- Kurukh (kru)	APCO NENA 2.105.1-2017
KutenaiInterpreter	Language Interpreter -- Kutenai (kut)	APCO NENA 2.105.1-2017
LadinoInterpreter	Language Interpreter -- Ladino (lad)	APCO NENA 2.105.1-2017
LahndaInterpreter	Language Interpreter -- Lahnda (lah)	APCO NENA 2.105.1-2017
LambaInterpreter	Language Interpreter -- Lamba (lam)	APCO NENA 2.105.1-2017
LandDayakLanguagesInterpreter	Language Interpreter -- Land Dayak Languages (day)	APCO NENA 2.105.1-2017
LaoInterpreter	Language Interpreter -- Lao (lao)	APCO NENA 2.105.1-2017
LatinInterpreter	Language Interpreter -- Latin (lat)	APCO NENA 2.105.1-2017
LatvianInterpreter	Language Interpreter -- Latvian (lav)	APCO NENA 2.105.1-2017
LezghianInterpreter	Language Interpreter -- Lezghian (lez)	APCO NENA 2.105.1-2017
LimburganLimburgerLimburgishInterpreter	Language Interpreter -- Limburgan Limburger Limburgish (lim)	APCO NENA 2.105.1-2017
LingalaInterpreter	Language Interpreter -- Lingala (lin)	APCO NENA 2.105.1-2017
LithuanianInterpreter	Language Interpreter -- Lithuanian (lit)	APCO NENA 2.105.1-2017
LojbanInterpreter	Language Interpreter -- Lojban (jbo)	APCO NENA 2.105.1-2017
LowerSorbianInterpreter	Language Interpreter -- Lower Sorbian (dsb)	APCO NENA 2.105.1-2017
LoziInterpreter	Language Interpreter -- Lozi (loz)	APCO NENA 2.105.1-2017
Luba-KatangaInterpreter	Language Interpreter -- Luba-Katanga (lub)	APCO NENA 2.105.1-2017
Luba-LuluaInterpreter	Language Interpreter -- Luba-Lulua (lua)	APCO NENA 2.105.1-2017
LuisenoInterpreter	Language Interpreter -- Luiseno (lui)	APCO NENA 2.105.1-2017
LuleSamiInterpreter	Language Interpreter -- Lule Sami (smj)	APCO NENA 2.105.1-2017
LundaInterpreter	Language Interpreter -- Lunda (lun)	APCO NENA 2.105.1-2017
Luo-KenyaTanzania-Interpreter	Language Interpreter -- Luo(KenyaTanzania) (luo)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
LushaiInterpreter	Language Interpreter -- Lushai (lus)	APCO NENA 2.105.1-2017
LuxembourgishLetzeburgeschInterpreter	Language Interpreter -- Luxembourgish Letzeburgesch (ltz)	APCO NENA 2.105.1-2017
MacedonianInterpreter	Language Interpreter -- Macedonian (mac (B))	APCO NENA 2.105.1-2017
MadureseInterpreter	Language Interpreter -- Madurese (mad)	APCO NENA 2.105.1-2017
MagahiInterpreter	Language Interpreter -- Magahi (mag)	APCO NENA 2.105.1-2017
MaithiliInterpreter	Language Interpreter -- Maithili (mai)	APCO NENA 2.105.1-2017
MakasarInterpreter	Language Interpreter -- Makasar (mak)	APCO NENA 2.105.1-2017
MalagasyInterpreter	Language Interpreter -- Malagasy (mlg)	APCO NENA 2.105.1-2017
MalayalamInterpreter	Language Interpreter -- Malayalam (mal)	APCO NENA 2.105.1-2017
MalayInterpreter	Language Interpreter -- Malay (may (B))	APCO NENA 2.105.1-2017
MalteseInterpreter	Language Interpreter -- Maltese (mlt)	APCO NENA 2.105.1-2017
ManchuInterpreter	Language Interpreter -- Manchu (mnc)	APCO NENA 2.105.1-2017
MandarInterpreter	Language Interpreter -- Mandar (mdr)	APCO NENA 2.105.1-2017
MandingoInterpreter	Language Interpreter -- Mandingo (man)	APCO NENA 2.105.1-2017
ManipuriInterpreter	Language Interpreter -- Manipuri (mni)	APCO NENA 2.105.1-2017
ManoboLanguagesInterpreter	Language Interpreter -- Manobo Languages (mno)	APCO NENA 2.105.1-2017
ManxInterpreter	Language Interpreter -- Manx (glv)	APCO NENA 2.105.1-2017
MaoriInterpreter	Language Interpreter -- Maori (mao (B))	APCO NENA 2.105.1-2017
MapudungunMapucheInterpreter	Language Interpreter -- Mapudungun Mapuche (arn)	APCO NENA 2.105.1-2017
MarathiInterpreter	Language Interpreter -- Marathi (mar)	APCO NENA 2.105.1-2017
MariInterpreter	Language Interpreter -- Mari (chm)	APCO NENA 2.105.1-2017
MarshalleseInterpreter	Language Interpreter -- Marshallese (mah)	APCO NENA 2.105.1-2017
MarwariInterpreter	Language Interpreter -- Marwari (mwr)	APCO NENA 2.105.1-2017
MasaiInterpreter	Language Interpreter -- Masai (mas)	APCO NENA 2.105.1-2017
MayanLanguagesInterpreter	Language Interpreter -- Mayan Languages (myn)	APCO NENA 2.105.1-2017
MendeInterpreter	Language Interpreter -- Mende (men)	APCO NENA 2.105.1-2017
MikmaqMicmacInterpreter	Language Interpreter -- Mi'kmaq Micmac (mic)	APCO NENA 2.105.1-2017
MinangkabauInterpreter	Language Interpreter -- Minangkabau (min)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
MirandeseInterpreter	Language Interpreter -- Mirandese (mwl)	APCO NENA 2.105.1-2017
MohawkInterpreter	Language Interpreter -- Mohawk (moh)	APCO NENA 2.105.1-2017
MokshaInterpreter	Language Interpreter -- Moksha (mdf)	APCO NENA 2.105.1-2017
MongoInterpreter	Language Interpreter -- Mongo (lol)	APCO NENA 2.105.1-2017
MongolianInterpreter	Language Interpreter -- Mongolian (mon)	APCO NENA 2.105.1-2017
Mon-KhmerLanguagesInterpreter	Language Interpreter -- Mon-Khmer Languages (mkh)	APCO NENA 2.105.1-2017
MossiInterpreter	Language Interpreter -- Mossi (mos)	APCO NENA 2.105.1-2017
MundaLanguagesInterpreter	Language Interpreter -- Munda Languages (mun)	APCO NENA 2.105.1-2017
NahuatlLanguagesInterpreter	Language Interpreter -- Nahuatl Languages (nah)	APCO NENA 2.105.1-2017
NauruInterpreter	Language Interpreter -- Nauru (nau)	APCO NENA 2.105.1-2017
NavajoNavahoInterpreter	Language Interpreter -- Navajo Navaho (nav)	APCO NENA 2.105.1-2017
NdebeleNorthNdebeleInterpreter	Language Interpreter -- Ndebele North Ndebele (nde)	APCO NENA 2.105.1-2017
NdebeleSouthNdebeleInterpreter	Language Interpreter -- Ndebele South Ndebele (nbl)	APCO NENA 2.105.1-2017
NdongaInterpreter	Language Interpreter -- Ndonga (ndo)	APCO NENA 2.105.1-2017
NeapolitanInterpreter	Language Interpreter -- Neapolitan (nap)	APCO NENA 2.105.1-2017
NepalBhasaNewariInterpreter	Language Interpreter -- Nepal Bhasa Newari (new)	APCO NENA 2.105.1-2017
NepaliInterpreter	Language Interpreter -- Nepali (nep)	APCO NENA 2.105.1-2017
NiasInterpreter	Language Interpreter -- Nias (nia)	APCO NENA 2.105.1-2017
Niger-KordofanianLanguagesInterpreter	Language Interpreter -- Niger-Kordofanian Languages (nic)	APCO NENA 2.105.1-2017
Nilo-SaharanLanguagesInterpreter	Language Interpreter -- Nilo-Saharan Languages (ssa)	APCO NENA 2.105.1-2017
NiueanInterpreter	Language Interpreter -- Niuean (niu)	APCO NENA 2.105.1-2017
NKoInterpreter	Language Interpreter -- N'Ko (nqo)	APCO NENA 2.105.1-2017
NogaiInterpreter	Language Interpreter -- Nogai (nog)	APCO NENA 2.105.1-2017
NorseOldInterpreter	Language Interpreter -- Norse Old (non)	APCO NENA 2.105.1-2017
NorthernFrisianInterpreter	Language Interpreter -- Northern Frisian (frr)	APCO NENA 2.105.1-2017
NorthernSamiInterpreter	Language Interpreter -- Northern Sami	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
	(sme)	
NorwegianBokmalInterpreter	Language Interpreter -- Norwegian Bokmål (nob)	APCO NENA 2.105.1-2017
NorwegianInterpreter	Language Interpreter -- Norwegian (nno)	APCO NENA 2.105.1-2017
NubianLanguagesInterpreter	Language Interpreter -- Nubian Languages (nub)	APCO NENA 2.105.1-2017
NyamweziInterpreter	Language Interpreter -- Nyamwezi (nym)	APCO NENA 2.105.1-2017
NyankoleInterpreter	Language Interpreter -- Nyankole (nyn)	APCO NENA 2.105.1-2017
NyoroInterpreter	Language Interpreter -- Nyoro (nyo)	APCO NENA 2.105.1-2017
NzimaInterpreter	Language Interpreter -- Nzima (nzi)	APCO NENA 2.105.1-2017
OccitanInterpreter	Language Interpreter -- Occitan (oci)	APCO NENA 2.105.1-2017
OjibwaInterpreter	Language Interpreter -- Ojibwa (oji)	APCO NENA 2.105.1-2017
OriyaInterpreter	Language Interpreter -- Oriya (ori)	APCO NENA 2.105.1-2017
OromoInterpreter	Language Interpreter -- Oromo (orm)	APCO NENA 2.105.1-2017
OsageInterpreter	Language Interpreter -- Osage (osa)	APCO NENA 2.105.1-2017
OssetianOsseticInterpreter	Language Interpreter -- Ossetian Ossetic (oss)	APCO NENA 2.105.1-2017
OtomianLanguagesInterpreter	Language Interpreter -- Otomian Languages (oto)	APCO NENA 2.105.1-2017
PahlaviInterpreter	Language Interpreter -- Pahlavi (pal)	APCO NENA 2.105.1-2017
PalauanInterpreter	Language Interpreter -- Palauan (pau)	APCO NENA 2.105.1-2017
PaliInterpreter	Language Interpreter -- Pali (pli)	APCO NENA 2.105.1-2017
PampangaKapampanganInterpreter	Language Interpreter -- Pampanga Kapampangan (pam)	APCO NENA 2.105.1-2017
PangasinanInterpreter	Language Interpreter -- Pangasinan (pag)	APCO NENA 2.105.1-2017
PanjabiPunjabiInterpreter	Language Interpreter -- Panjabi Punjabi (pan)	APCO NENA 2.105.1-2017
PapiamentoInterpreter	Language Interpreter -- Papiamento (pap)	APCO NENA 2.105.1-2017
PapuanLanguagesInterpreter	Language Interpreter -- Papuan Languages (paa)	APCO NENA 2.105.1-2017
PediSepediNorthernSothoInterpreter	Language Interpreter -- Pedi Sepedi Northern Sotho (nso)	APCO NENA 2.105.1-2017
PersianInterpreter	Language Interpreter -- Persian (per (B))	APCO NENA 2.105.1-2017
PhilippineLanguagesInterpreter	Language Interpreter -- Philippine Languages (phi)	APCO NENA 2.105.1-2017
PhoenicianInterpreter	Language Interpreter -- Phoenician (phn)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
PohnpeianInterpreter	Language Interpreter -- Pohnpeian (pon)	APCO NENA 2.105.1-2017
PolishInterpreter	Language Interpreter -- Polish (pol)	APCO NENA 2.105.1-2017
PortugueseInterpreter	Language Interpreter -- Portuguese (por)	APCO NENA 2.105.1-2017
PrakritLanguagesInterpreter	Language Interpreter -- Prakrit Languages (pra)	APCO NENA 2.105.1-2017
PushtoPashtoInterpreter	Language Interpreter -- Pushto Pashto (pus)	APCO NENA 2.105.1-2017
QuechuaInterpreter	Language Interpreter -- Quechua (que)	APCO NENA 2.105.1-2017
RajasthaniInterpreter	Language Interpreter -- Rajasthani (raj)	APCO NENA 2.105.1-2017
RapanuiInterpreter	Language Interpreter -- Rapanui (rap)	APCO NENA 2.105.1-2017
RarotonganCookIslandsMaoriInterpreter	Language Interpreter -- Rarotongan Cook Islands Maori (rar)	APCO NENA 2.105.1-2017
RomanianMoldavianMoldovanInterpreter	Language Interpreter -- Romanian Moldavian Moldovan (rum (B))	APCO NENA 2.105.1-2017
RomanshInterpreter	Language Interpreter -- Romansh (roh)	APCO NENA 2.105.1-2017
RomanyInterpreter	Language Interpreter -- Romany (rom)	APCO NENA 2.105.1-2017
RundiInterpreter	Language Interpreter -- Rundi (run)	APCO NENA 2.105.1-2017
RussianInterpreter	Language Interpreter -- Russian (rus)	APCO NENA 2.105.1-2017
SalishanLanguagesInterpreter	Language Interpreter -- Salishan Languages (sal)	APCO NENA 2.105.1-2017
SamaritanAramaicInterpreter	Language Interpreter -- Samaritan Aramaic (sam)	APCO NENA 2.105.1-2017
SamiLanguagesInterpreter	Language Interpreter -- Sami Languages (smi)	APCO NENA 2.105.1-2017
SamoanInterpreter	Language Interpreter -- Samoan (smo)	APCO NENA 2.105.1-2017
SandaweInterpreter	Language Interpreter -- Sandawe (sad)	APCO NENA 2.105.1-2017
SangoInterpreter	Language Interpreter -- Sango (sag)	APCO NENA 2.105.1-2017
SanskritInterpreter	Language Interpreter -- Sanskrit (san)	APCO NENA 2.105.1-2017
SantaliInterpreter	Language Interpreter -- Santali (sat)	APCO NENA 2.105.1-2017
SardinianInterpreter	Language Interpreter -- Sardinian (srd)	APCO NENA 2.105.1-2017
SasakInterpreter	Language Interpreter -- Sasak (sas)	APCO NENA 2.105.1-2017
ScotsInterpreter	Language Interpreter -- Scots (sco)	APCO NENA 2.105.1-2017
SelkupInterpreter	Language Interpreter -- Selkup (sel)	APCO NENA 2.105.1-2017
SemiticLanguagesInterpreter	Language Interpreter -- Semitic Languages (sem)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
SerbianInterpreter	Language Interpreter -- Serbian (srp)	APCO NENA 2.105.1-2017
SererInterpreter	Language Interpreter -- Serer (srr)	APCO NENA 2.105.1-2017
ShanInterpreter	Language Interpreter -- Shan (shn)	APCO NENA 2.105.1-2017
ShonaInterpreter	Language Interpreter -- Shona (sna)	APCO NENA 2.105.1-2017
SichuanYiNuosuInterpreter	Language Interpreter -- Sichuan YiNuosu (iii)	APCO NENA 2.105.1-2017
SicilianInterpreter	Language Interpreter -- Sicilian (scn)	APCO NENA 2.105.1-2017
SidamoInterpreter	Language Interpreter -- Sidamo (sid)	APCO NENA 2.105.1-2017
SignLanguagesInterpreter	Language Interpreter -- Sign Languages (sgn)	APCO NENA 2.105.1-2017
SiksikaInterpreter	Language Interpreter -- Siksika (bla)	APCO NENA 2.105.1-2017
SindhiInterpreter	Language Interpreter -- Sindhi (snd)	APCO NENA 2.105.1-2017
SinhalaSinhaleseInterpreter	Language Interpreter -- Sinhala Sinhalese (sin)	APCO NENA 2.105.1-2017
Sino-TibetanLanguagesInterpreter	Language Interpreter -- Sino-Tibetan Languages (sit)	APCO NENA 2.105.1-2017
SiouanLanguagesInterpreter	Language Interpreter -- Siouan Languages (sio)	APCO NENA 2.105.1-2017
SkoltSamiInterpreter	Language Interpreter -- Skolt Sami (sms)	APCO NENA 2.105.1-2017
Slave(Athapascan)Interpreter	Language Interpreter -- Slave - Athapascan (den)	APCO NENA 2.105.1-2017
SlavicLanguagesInterpreter	Language Interpreter -- Slavic Languages (sla)	APCO NENA 2.105.1-2017
SlavicSlavonicOldBulgarianInterpreter	Language Interpreter -- Slavic Slavonic Old Bulgarian (chu)	APCO NENA 2.105.1-2017
SlovakInterpreter	Language Interpreter -- Slovak (slo (B))	APCO NENA 2.105.1-2017
SlovenianInterpreter	Language Interpreter -- Slovenian (slv)	APCO NENA 2.105.1-2017
SogdianInterpreter	Language Interpreter -- Sogdian (sog)	APCO NENA 2.105.1-2017
SomaliInterpreter	Language Interpreter -- Somali (som)	APCO NENA 2.105.1-2017
SonghaiLanguagesInterpreter	Language Interpreter -- Songhai Languages (son)	APCO NENA 2.105.1-2017
SoninkeInterpreter	Language Interpreter -- Soninke (snk)	APCO NENA 2.105.1-2017
SorbianLanguagesInterpreter	Language Interpreter -- Sorbian Languages (wen)	APCO NENA 2.105.1-2017
SothoSouthernInterpreter	Language Interpreter -- Sotho Southern (sot)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
SouthAmericanIndianLanguagesInterpreter	Language Interpreter -- South American Indian Languages (sai)	APCO NENA 2.105.1-2017
SouthernAltaiInterpreter	Language Interpreter -- Southern Altai (alt)	APCO NENA 2.105.1-2017
SouthernSamiInterpreter	Language Interpreter -- Southern Sami (sma)	APCO NENA 2.105.1-2017
SpanishCastilianInterpreter	Language Interpreter -- Spanish Castilian (spa)	APCO NENA 2.105.1-2017
SrananTongoInterpreter	Language Interpreter -- Sranan Tongo (srn)	APCO NENA 2.105.1-2017
StandardMoroccanTamazightInterpreter	Language Interpreter -- Standard Moroccan Tamazight (zgh)	APCO NENA 2.105.1-2017
SukumaInterpreter	Language Interpreter -- Sukuma (suk)	APCO NENA 2.105.1-2017
SumerianInterpreter	Language Interpreter -- Sumerian (sux)	APCO NENA 2.105.1-2017
SundaneseInterpreter	Language Interpreter -- Sundanese (sun)	APCO NENA 2.105.1-2017
SusuInterpreter	Language Interpreter -- Susu (sus)	APCO NENA 2.105.1-2017
SwahiliInterpreter	Language Interpreter -- Swahili (swa)	APCO NENA 2.105.1-2017
SwatiInterpreter	Language Interpreter -- Swati (ssw)	APCO NENA 2.105.1-2017
SwedishInterpreter	Language Interpreter -- Swedish (swe)	APCO NENA 2.105.1-2017
Swiss GermanAlemannicAlsatianInterpreter	Language Interpreter -- Swiss German Alemannic Alsatian (gsw)	APCO NENA 2.105.1-2017
SyriacInterpreter	Language Interpreter -- Syriac (syr)	APCO NENA 2.105.1-2017
TagalogInterpreter	Language Interpreter -- Tagalog (tgl)	APCO NENA 2.105.1-2017
TahitianInterpreter	Language Interpreter -- Tahitian (tah)	APCO NENA 2.105.1-2017
TaiLanguagesInterpreter	Language Interpreter -- Tai Languages (tai)	APCO NENA 2.105.1-2017
TajikInterpreter	Language Interpreter -- Tajik (tgk)	APCO NENA 2.105.1-2017
TamashekInterpreter	Language Interpreter -- Tamashek (tmh)	APCO NENA 2.105.1-2017
TamilInterpreter	Language Interpreter -- Tamil (tam)	APCO NENA 2.105.1-2017
TatarInterpreter	Language Interpreter -- Tatar (tat)	APCO NENA 2.105.1-2017
TeluguInterpreter	Language Interpreter -- Telugu (tel)	APCO NENA 2.105.1-2017
TerenoInterpreter	Language Interpreter -- Tereno (ter)	APCO NENA 2.105.1-2017
TetumInterpreter	Language Interpreter -- Tetum (tet)	APCO NENA 2.105.1-2017
ThaiInterpreter	Language Interpreter -- Thai (tha)	APCO NENA 2.105.1-2017
TibetanInterpreter	Language Interpreter -- Tibetan (tib (B))	APCO NENA 2.105.1-2017
TigreInterpreter	Language Interpreter -- Tigre (tig)	APCO NENA 2.105.1-2017
TigrinyaInterpreter	Language Interpreter -- Tigrinya (tir)	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
TimneInterpreter	Language Interpreter -- Timne (tem)	APCO NENA 2.105.1-2017
TivInterpreter	Language Interpreter -- Tiv (tiv)	APCO NENA 2.105.1-2017
TlingitInterpreter	Language Interpreter -- Tlingit (tli)	APCO NENA 2.105.1-2017
TokelauInterpreter	Language Interpreter -- Tokelau (tkl)	APCO NENA 2.105.1-2017
TokPisinInterpreter	Language Interpreter -- Tok Pisin (tpi)	APCO NENA 2.105.1-2017
TongaNyasaInterpreter	Language Interpreter -- Tonga Nyasa (tog)	APCO NENA 2.105.1-2017
Tonga-TongaIslands-Interpreter	Language Interpreter -- Tonga (Tonga Islands) (ton)	APCO NENA 2.105.1-2017
TsimshianInterpreter	Language Interpreter -- Tsimshian (tsi)	APCO NENA 2.105.1-2017
TsongaInterpreter	Language Interpreter -- Tsonga (tso)	APCO NENA 2.105.1-2017
TswanaInterpreter	Language Interpreter -- Tswana (tsn)	APCO NENA 2.105.1-2017
TumbukaInterpreter	Language Interpreter -- Tumbuka (tum)	APCO NENA 2.105.1-2017
TupiLanguagesInterpreter	Language Interpreter -- Tupi Languages (tup)	APCO NENA 2.105.1-2017
TurkishInterpreter	Language Interpreter -- Turkish (tur)	APCO NENA 2.105.1-2017
TurkmenInterpreter	Language Interpreter -- Turkmen (tuk)	APCO NENA 2.105.1-2017
TuvaluInterpreter	Language Interpreter -- Tuvalu (tvl)	APCO NENA 2.105.1-2017
TuvinianInterpreter	Language Interpreter -- Tuvinian (tyv)	APCO NENA 2.105.1-2017
TwiInterpreter	Language Interpreter -- Twi (twi)	APCO NENA 2.105.1-2017
UdmurtInterpreter	Language Interpreter -- Udmurt (udm)	APCO NENA 2.105.1-2017
UgariticInterpreter	Language Interpreter -- Ugaritic (uga)	APCO NENA 2.105.1-2017
UighurUyghurInterpreter	Language Interpreter -- Uighur Uyghur (uig)	APCO NENA 2.105.1-2017
UkrainianInterpreter	Language Interpreter -- Ukrainian (ukr)	APCO NENA 2.105.1-2017
UmbunduInterpreter	Language Interpreter -- Umbundu (umb)	APCO NENA 2.105.1-2017
UpperSorbianInterpreter	Language Interpreter -- Upper Sorbian (hsb)	APCO NENA 2.105.1-2017
UrduInterpreter	Language Interpreter -- Urdu (urd)	APCO NENA 2.105.1-2017
UzbekInterpreter	Language Interpreter -- Uzbek (uzb)	APCO NENA 2.105.1-2017
VaiInterpreter	Language Interpreter -- Vai (vai)	APCO NENA 2.105.1-2017
VendaInterpreter	Language Interpreter -- Venda (ven)	APCO NENA 2.105.1-2017
VietnameseInterpreter	Language Interpreter -- Vietnamese (vie)	APCO NENA 2.105.1-2017
VolapukInterpreter	Language Interpreter -- Volapük (vol)	APCO NENA 2.105.1-2017
VoticInterpreter	Language Interpreter -- Votic (vot)	APCO NENA 2.105.1-2017
WakashanLanguagesInterpreter	Language Interpreter -- Wakashan	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
	Languages (wak)	
WalloonInterpreter	Language Interpreter -- Walloon (wln)	APCO NENA 2.105.1-2017
WarayInterpreter	Language Interpreter -- Waray (war)	APCO NENA 2.105.1-2017
WashoInterpreter	Language Interpreter -- Washo (was)	APCO NENA 2.105.1-2017
WelshInterpreter	Language Interpreter -- Welsh (wel (B))	APCO NENA 2.105.1-2017
WesternFrisianInterpreter	Language Interpreter -- Western Frisian (fry)	APCO NENA 2.105.1-2017
WolaittaWolayttaInterpreter	Language Interpreter -- Wolaitta Wolaytta (wal)	APCO NENA 2.105.1-2017
WolofInterpreter	Language Interpreter -- Wolof (wol)	APCO NENA 2.105.1-2017
XhosaInterpreter	Language Interpreter -- Xhosa (xho)	APCO NENA 2.105.1-2017
YakutInterpreter	Language Interpreter -- Yakut (sah)	APCO NENA 2.105.1-2017
YaoInterpreter	Language Interpreter -- Yao (yao)	APCO NENA 2.105.1-2017
YapeseInterpreter	Language Interpreter -- Yapese (yap)	APCO NENA 2.105.1-2017
YiddishInterpreter	Language Interpreter -- Yiddish (yid)	APCO NENA 2.105.1-2017
YorubaInterpreter	Language Interpreter -- Yoruba (yor)	APCO NENA 2.105.1-2017
YupikLanguagesInterpreter	Language Interpreter -- Yupik Languages (ypk)	APCO NENA 2.105.1-2017
ZandeLanguagesInterpreter	Language Interpreter -- Zande Languages (znd)	APCO NENA 2.105.1-2017
ZapotecInterpreter	Language Interpreter -- Zapotec (zap)	APCO NENA 2.105.1-2017
ZazaDimiliDimlKirdkiKirmanjkiInterpreter	Language Interpreter -- Zaza Dimili Diml Kirdki Kirmanjki (zza)	APCO NENA 2.105.1-2017
ZenagaInterpreter	Language Interpreter -- Zenaga (zen)	APCO NENA 2.105.1-2017
ZhuangChuangInterpreter	Language Interpreter -- Zhuang Chuang (zha)	APCO NENA 2.105.1-2017
ZuluInterpreter	Language Interpreter -- Zulu (zul)	APCO NENA 2.105.1-2017
ZuniInterpreter	Language Interpreter -- Zuni (zun)	APCO NENA 2.105.1-2017
LoJack	LoJack® Stolen Vehicle Recovery System	APCO NENA 2.105.1-2017
CrowdControlSpecialist	Crowd Control Specialist	APCO NENA 2.105.1-2017
MountainSearchandRescueTech	Mountain Search and/or Rescue Technical Specialist	APCO NENA 2.105.1-2017
NarcoticsIdentificationKitOperator	Narcotics Identification Kit Operator	APCO NENA 2.105.1-2017
Paramedic	Paramedic	APCO NENA 2.105.1-2017
PortablePumpFloating	Portable Pump -- Floating	APCO NENA 2.105.1-2017

Value	Literal Description	Reference
PortablePump Submersible	Portable Pump -- Submersible	APCO NENA 2.105.1-2017
PublicInformationOfficer	Public Information Officer	APCO NENA 2.105.1-2017
Telecommunicator	Public Safety Telecommunicator	APCO NENA 2.105.1-2017
RadiologicTech	Radiologic Technician	APCO NENA 2.105.1-2017
RadiationDetector	Victoreen Radiation Detector	APCO NENA 2.105.1-2017
RegisteredNurse	Registered Nurse	APCO NENA 2.105.1-2017
RescueRope	Rescue Rope	APCO NENA 2.105.1-2017
SCBA	Self-Contained Breathing Apparatus	APCO NENA 2.105.1-2017
Shotgun	Shotgun	APCO NENA 2.105.1-2017
StructuralCollapaseRescueTech	Structural Collapse Rescue Technician	APCO NENA 2.105.1-2017
StructuralEngineer	Structural Engineer	APCO NENA 2.105.1-2017
SWAT	SWAT Officer	APCO NENA 2.105.1-2017
SwiftwaterRescueEquipment	Swift Water Rescue Equipment	APCO NENA 2.105.1-2017
SwiftwaterRescueTech	Swift Water/Flood Rescue Technical Specialist	APCO NENA 2.105.1-2017
TaserTrained	Taser Trained	APCO NENA 2.105.1-2017
ThermalCamera	Thermal Imaging Camera	APCO NENA 2.105.1-2017
VacuumWater	Vacuum / Water	APCO NENA 2.105.1-2017
WaterCanineSearchTech	Water Canine Search Technician	APCO NENA 2.105.1-2017
WildLandFireTools	Wildland Fire Fighting Tools	APCO NENA 2.105.1-2017

Appendix 1: NIEM Core Person and Vehicle Type Data Elements for Public Safety Exchanges

This appendix identifies the NIEM Core 2.1 Person Type (nc:PersonType) and Vehicle (nc:VehicleType) Data elements that shall be supported by public safety functional elements and other systems. The full complement of the nc:PersonType and nc:VehicleType data elements are supported by the EIDD XML schema. However, in order to insure interoperability in public safety this appendix identifies those nc:PersonType and nc:VehicleType data elements that shall be supported by NG9-1-1 and other public safety systems that exchange EIDD instances.

The appendix is structured as a series of tables that identify and further describe the data elements that shall be supported. The main person and vehicle data element tables include references to the other tables, which also include references to one or more of the tables contained in the appendix.

Appendix 1.1: NIEM Core Person Type Data Elements

The following table identifies all of the NIEM 2.1 nc:PersonType data elements that must be supported by NG9-1-1 applications:

Table 1: EIDD NIEM 2.1 nc:PersonType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
3	nc:PersonAgeMeasure	[0..*]	A measurement of the age of a person.	Uses the data elements defined in nc:TimeMeasureType; all of which shall be supported
4	nc:PersonAlternateName	[0..*]	An alternate name used by a person.	Uses the data elements from nc:PersonNameType; all of which shall be supported
5	nc:PersonBirthDate	[0..*]	A date a person was born.	See table nc:DateType for the data elements that shall be supported
6	nc:PersonBirthLocation	[0..*]	A location where a person was born.	See table nc:LocationType for the data elements that shall be supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
7	nc:PersonBloodTypeCode	[0..*]	A blood group and RH factor of a person.	See fbi:BLTCodeType for details
9	nc:PersonBuildText	[0..*]	A physique or shape of a person.	xsd:string type
12	nc:PersonCitizenshipISO3166Alpha2Code	[0..*]	A county that assigns rights, duties, and privileges to a person because of the birth or naturalization of the person in that country.	See iso_3166:CountryAlpha2CodeType for details
13	nc:PersonClothing	[0..*]	An article of clothing, dress, or attire for a person.	Uses the data elements defined in nc:ClothingType; all of which shall be supported
14	nc:PersonComplexionText	[0..*]	An appearance or condition of the skin of a person.	xsd:string type
17	nc:PersonDescriptionText	[0..*]	A description of a person.	xsd:string type
18	nc:PersonDigitalImage	[0..*]	A photograph or image of a person in a digital format.	See table nc:ImageType for the data elements that shall be supported
20	nc:PersonDisguiseDescriptionText	[0..*]	A description of something a person wears to conceal or mislead others as to the true appearance or identity of that person.	xsd:string type
24	Choice	[0..*]		The following options for tracking a person's ethnicity shall be supported:
	nc:PersonEthnicityCode		A cultural lineage of a person.	See fbi:EthnicityCodeType for details
	nc:PersonEthnicityText		A cultural lineage of a person.	xsd:string type

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
25	Choice	[0..*]		The following options for tracking a person's eye color shall be supported:
	nc:PersonEyeColorCode		A color of the eyes of a person.	See fbi:EYECodeType for details
	nc:PersonEyeColorText		A color of the eyes of a person.	xsd:string type
26	nc:PersonEyewearDescriptionText	[0..*]	A description of glasses or other eyewear a person wears.	xsd:string type
27	nc:PersonFacialHairText	[0..*]	A kind of facial hair of a person.	xsd:string type
29	nc:PersonGeneralAppearanceDescriptionText	[0..*]	A description of the way a person looks and is presented overall.	xsd:string type
30	nc:PersonHairAppearanceText	[0..*]	An overall appearance of the hair of a person.	xsd:string type
31	nc:PersonHairCategoryText	[0..*]	A kind of hair of a person.	xsd:string type
32	Choice	[0..*]		The following options for tracking a person's hair color shall be supported:
	nc:PersonHairColorCode		A color of the hair of a person.	See fbi:HAICodeType for details
	nc:PersonHairColorText		A color of the hair of a person.	xsd:string type
33	nc:PersonHairLengthText	[0..*]	A length of hair of a person.	xsd:string type
34	nc:PersonHairStyleText	[0..*]	A style or cut of hair worn by a person.	xsd:string type
35	nc:PersonHandednessText	[0..*]	A hand with which a person is more adept using	xsd:string type
37	nc:PersonHeightMeasure	[0..*]	A measurement of the height of a person	See table nc:LengthMeasureType for the data elements that shall be supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
39	nc:PersonInjury	[0..*]	A form of physical harm or damage sustained by a person.	See table nc:InjuryType for the data elements that shall be supported
41	nc:PersonJewelryDescriptionText	[0..*]	A description of adornments a person wears.	xsd:string type
42	nc:PersonLanguageEnglishIndicator	[0..*]	True if a person understands and speaks English; false otherwise.	niem-xsd:boolean
44	nc:PersonLicenseIdentification	[0..*]	An identification that references a license certification or registration of a person for some purpose.	See table nc:IdentificationType for the data elements that shall be supported
45	nc:PersonLivingIndicator	[0..*]	True if a person is alive, false if a person is dead.	niem-xsd:boolean
46	nc:PersonMaritalStatusText	[0..*]	A status of marriage for a person.	xsd:string type
51	nc:PersonMentalStateText	[0..*]	A mental condition of a person.	xsd:string type
54	nc:PersonName	[0..*]	A combination of names and/or titles by which a person is known.	Uses the data elements from nc:PersonNameType; all of which shall be supported
55	nc:PersonNationalIdentification	[0..*]	An identification that references a person within a country but is not based on fingerprint.	See table nc:IdentificationType for the data elements that shall be supported
56	nc:PersonNationalityText	[0..*]	A country in which a person was born.	xsd:string type
61	nc:PersonPhysicalFeature	[0..*]	A prominent or easily identifiable aspect of a person.	See table nc:PersonPhysicalFeature for the data elements that shall be supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
62	nc:PersonPrimaryLanguage	[0..*]	A capacity of a person for a language with which that person has the strongest familiarity.	Uses the data elements defined in nc:PersonLanguageType; all of which shall be supported
63	Choice	[0..*]		The following options for tracking a person's race shall be supported:
	nc:PersonRaceCode		A classification of a person based on factors such as geographical locations and genetics.	See fbi:RACCodeType for details
	nc:PersonRaceText		A classification of a person based on factors such as geographical locations and genetics.	xsd:string type
68	nc:PersonSexCode		A gender or sex of a person.	See fbi:SEXCodeType for details
69	nc:PersonSexualOrientationText	[0..*]	A target gender of the sexual interest of a person.	xsd:string type
70	nc:PersonSkinToneCode	[0..*]	A color or tone of the skin of a person.	See fbi:SKNCodeType
72	nc:PersonSSNIdentification	[0..*]	A unique reference to a living person; assigned by the United States Social Security Administration.	See table nc:IdentificationType for the data elements that shall be supported
76	nc:PersonUSCitizenIndicator	[0..*]	True if a person is a citizen of the United States; false otherwise.	niem-xsd:boolean
79	nc:PersonWeightMeasure	[0..*]	A measurement of the weight of a person.	Uses the data elements defined in nc:WeightMeasureType; all of which shall be supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
81	nc:PersonNationalityISO3166Alpha2Code	[0..*]	A country in which a person was born.	See iso_3166:CountryAlpha2CodeType for details

Appendix 1.2: NIEM Core Vehicle Type Data Elements

The following table identifies all of the NIEM 2.1 nc:VehicleType data elements that must be supported by NG9-1-1 applications:

Table 2: EIDD NIEM 2.1 nc:VehicleType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
4	nc:ItemConditionText	[0..*]	A state or appearance of an item.	niem-xsd:string
6	nc:ItemDescriptionText	[0..*]	A description of an item.	niem-xsd:string
9	nc:ItemOwner [0..*]	[0..*]	An entity which owns a property item.	See table nc: EntityType for the data elements that shall be supported.
10	nc:ItemOwnerAppliedID	[0..*]	An identifier applied to an item by the owner.	niem-xsd:string
16	nc:ItemSerialIdentification	[0..*]	Identification inscribed on or attached to a part, collection of parts, or complete unit by the manufacturer.	See table nc:IdentificationType for the data elements that shall be supported.
27	nc:ItemCategoryText	[0..*]	A kind of property item.	niem-xsd:string
28	Choice	[0..*]		The following options for tracking the color of a vehicle must be supported:

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
	nc:VehicleColorPrimaryCode		A single, upper-most, front-most, or majority color of a vehicle.	See fbi:VCOCodeType for available values all of which shall be supported
	nc:VehicleColorSecondaryCode		A lower-most or rear-most color of a two-tone vehicle or a lesser color of a multi-colored vehicle.	See fbi:VCOCodeType for available values all of which shall be supported
30	nc:ItemImage	[0..*]	A binary representation of an image of an item.	See table nc:ImageType for the data elements that shall be supported.
32	nc:ItemMakeName	[0..*]	A name of the manufacturer that produced an item.	niem-xsd:string
33	nc:ItemModelName	[0..*]	A name of a specific design or kind of item made by a manufacturer.	niem-xsd:string
34	nc:ItemModelYearDate	[0..*]	A year in which an item was manufactured or produced.	niem-xsd:gYear
37	nc:VehicleStyleCode	[0..*]	A style of a vehicle.	See fbi:VSTCodeType for available values all of which shall be supported
42	nc:ConveyanceRegistrationPlateIdentification [0	[0..*]	An identification on a metal plate fixed to a conveyance.	See table nc:IdentificationType for the data elements that shall be supported.
43	nc:ConveyanceMotorizedIndicator	[0..*]	True if a conveyance is powered by a motor; false otherwise.	niem-xsd:boolean
45	nc:ConveyanceTowedIndicator	[0..*]	True if a conveyance is towed; false otherwise.	niem-xsd:boolean

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
46	Choice	[0..*]		The following options for tracking vehicle use shall be supported:
	nc:VehicleUseCode		A manner or way in which a vehicle is used.	See ansi_d20:VehicleUseCodeType for available values all of which shall be supported
	nc:VehicleUseText		A manner or way in which a vehicle is used.	niem-xsd:string
49	nc:VehicleCMVIndicator	[0..*]	True if a vehicle is a commercial motor vehicle; false otherwise.	niem-xsd:boolean
51	nc:VehicleDoorQuantity	[0..*]	The number of doors on a vehicle.	xsd:nonNegativeInteger
56	nc:VehicleIdentification	[0..*]	A unique identification for a specific vehicle.	See table nc:IdentificationType for the data elements that shall be supported. The nc:IdentificationID element shall contain the Vehicle Identification Number (VIN) or owner applied number.
60	nc:VehicleMakeCode	[0..*]	A manufacturer of a vehicle.	See fbi:VMACodeType for available values all of which shall be supported
61	nc:VehicleModelCode	[0..*]	A specific design or class of vehicle made by a manufacturer.	See nc:VehicleModelCode for available values all of which shall be supported
67	nc:ItemRentalIndicator	[0..*]	True if an item is rented; false otherwise.	niem-xsd:boolean

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
72	nc:VehicleTower	[0..*]	An organization that hauls or pulls a vehicle to another location.	See table nc:OrganizationType for the data elements that shall be supported
74	nc:VehicleVINAText	[0..*]	A Vehicle Identification Number Analysis; a combination of a vehicle make and model information.	niem-xsd:string
75	75. nc:VehicleWantedIndicator	[0..*]	True if a vehicle is being searched for by law enforcement; false otherwise.	niem-xsd:boolean
78	nc:VehicleMotorCarrierIdentification	[0..*]	US DOT Number	See table nc:IdentificationType for the data elements that shall be supported.

Appendix 1.3: Supporting Data Elements for NIEM Core Person and Vehicle Type Data Elements

The following table are referenced by the NIEM 2.1 nc:PersonType and nc:VehicleType data elements or by each other. Each tables identifies data elements that must be supported by NG9-1-1 applications:

Table 3: EIDD ncDateType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	Choice	[0..*]		The following options for tracking a calendar date shall be supported:
	nc:Date		A full date.	niem-xsd:date

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
	nc:DateTime		A full date and time.	niem-xsd:dateTime
	nc:Year		A year.	niem-xsd:gYear
	nc:YearMonth		A year and month.	niem-xsd:gYearMonth
2	nc:DateAccuracyCode	[0..1]	A subjective assessment that indicates belief that date content is exact or accurate.	twpdes:DateAccuracyIndicatorCodeType
3	nc:MarginDuration	[0..1]	A subjective assessment of the uncertainty of an estimated point by bounding an elements value with an estimated margin of error.	niem-xsd:duration

Table 4: EIDD nc:LocationType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:LocationAddress	[0..*]	A geophysical location described by postal information.	See table nc:AddressType for the data elements that shall be supported.
2	nc:LocationAddressGrid	[0..*]	A location identified by a unit of a grid system overlaid on an area.	Uses the data elements defined in nc:AddressGridType; all of which shall be supported
3	nc:LocationAltitudeMeasure	[0..*]	A measurement of the height or position of a location above a certain reference.	See table nc:LengthMeasureType for the data elements that shall be supported.
4	nc:LocationArea	[0..*]	A location identified by geographic boundaries.	See table nc:AreaType for the data elements that shall be supported.

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
5	Choice	[0..*]		The following options for tracking a location's category code shall be supported:
	nc:LocationCategoryCode		A kind or functional description of a location.	See fbi:LocationCategoryCodeType for details
	nc:LocationCategoryText		A kind or functional description of a location.	niem-xsd:string
6	nc:LocationContactInformation	[0..*]	Contact information for a location.	See table nc:ContactInformationType for the data elements that shall be supported.
7	nc:LocationCrossStreet	[0..*]	A location identified by two or more streets which intersect.	See table nc:CrossStreetType for the data elements that shall be supported.
9	nc:LocationDescriptionText	[0..*]	A description of a location.	niem-xsd:string
10	nc:LocationGeographicElevation	[0..*]	A measure of the distance of a point on the Earth from sea level.	Uses the data elements defined in nc:GeographicElevationMeasureType; all of which shall be supported
12	nc:LocationLandmarkText	[0..*]	A distinguishing physical feature at a location.	niem-xsd:string
16	nc:LocationName	[0..*]	A name of a location.	niem-xsd:string
20	nc:LocationTwoDimensionalGeographicCoordinate	[0..*]	A location identified by a latitude and longitude.	Uses the data elements defined in nc:TwoDimensionalGeographicCoordinateType; all of which shall be supported

Table 5: EIDD nc:ImageType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:BinaryID	[0..*]	An identifier that references a binary object.	xsd:string type
2	nc:BinaryAvailableLocationText	[0..*]	A physical or digital location of a binary object.	nc:TextType
3	nc:BinaryAvailableIndicator	[0..*]	True if a binary is available; false if it is not.	niem-xsd:boolean
4	nc:BinaryBase64Object	[0..*]	A type of binary encoding of data.	niem-xsd:base64Binary
5	nc:BinaryCaptureDate	[0..*]	A date on which a binary object is captured or created.	See table nc:DateType for the data elements that shall be supported
7	nc:BinaryDescriptionText	[0..*]	A description of a binary object.	nc:TextType
8	nc:BinaryFormatID	[0..*]	An identifier for a file format or content type of a binary object	xsd:string type
9	nc:BinaryFormatStandardName.	[0..*]	A name of a standard or protocol used to classify binary content	nc:TextType
10	nc:BinaryLocationURI	[0..*]	A URL or file reference of a binary object.	niem-xsd:anyURI
11	nc:BinarySizeValue	[0..*]	A size of a binary object in kilobytes.	nc:NonNegativeDecimalType
12	nc:BinaryCategoryText	[0..*]	A kind of object that has been encoded.	nc:TextType
13	nc:ImageHeightValue	[0..*]	A height of an image in pixels.	niem-xsd:integer
16	nc:ImageWidthValue	[0..*]	A width of an image in pixels.	niem-xsd:integer

Table 6: EIDD nc:LengthMeasureType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	Choice	[0..*]		The following options for specifying a measure must be supported:
	nc:MeasurePointValue		A specific measurement value.	xsd:decimal
	nc:MeasureRangeValue		A measurement specified by a minimum and maximum value.	Uses the data elements defined in nc:MeasureRangeValueType; all of which must be supported
	nc:MeasureText		A measurement value.	xsd:string
2	nc:MeasureUnitText	[0..*]	A unit that qualifies the measurement value.	xsd:string
3	3. nc:MeasureCategoryText	[0..*]	A method used to make a measurement.	xsd:string
5	nc:LengthUnitCode	[0..1]	A unit of measure of a length value.	See unece:LengthCodeType for details

Table 7: EIDD nc:InjuryType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:InjuryCategoryText	[0..*]	A kind of harm or injury.	nc:TextType
2	nc:InjuryDate	[0..*]	A date on which an injury occurred.	See table nc:DateType for the data elements that shall be supported
3	nc:InjuryDescriptionText	[0..*]	A description of an injury.	nc:TextType

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
4	nc:InjuryLocationText	[0..*]	A place on the body of a person where an injury occurred.	nc:TextType
5	nc:InjurySeverityText	[0..*]	A degree of the seriousness or intensity of an injury.	nc:TextType
6	nc:InjuryTreatmentEndDate	[0..*]	A date on which care for an injury ended.	See table nc:DateType for the data elements that shall be supported
7	nc:InjuryTreatmentStartDate	[0..*]	A date on which care for an injury began.	See table nc:DateType for the data elements that shall be supported
8	nc:InjuryTreatmentText	[0..*]	A provision of care intended to treat or heal an injury.	nc:TextType
9	nc:InjuryTreatmentProvider	[0..*]	An entity which provided care for an injury.	See table nc:OrganizationType for the data elements that shall be supported

Table 8: EIDD nc:OrganizationType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
2	nc:OrganizationActivityText	[0..*]	An activity that an organization is known or thought to be involved with.	nc:TextType

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
3	nc:OrganizationBranchName	[0..*]	A name of the chapter or branch by which an organization is known within a larger group of organizations.	nc:TextType
5	nc:OrganizationDayContactInformation	[0..*]	A means of contacting an organization during daytime hours.	See table nc:ContactInformationType for the data elements that shall be supported.
7	nc:OrganizationDoingBusinessAsName	[0..*]	A name an organization uses for conducting business.	nc:TextType
8	nc:OrganizationEmergencyContactInformation	[0..*]	A means of contacting an organization in the event of an emergency.	See table nc:ContactInformationType for the data elements that shall be supported.
9	nc:OrganizationEstablishedDate	[0..*]	A date an organization was started.	See table nc:DateType for the data elements that shall be supported.
10	nc:OrganizationEveningContactInformation	[0..*]	A means of contacting an organization during evening or early night hours.	See table nc:ContactInformationType for the data elements that shall be supported.
11	nc:OrganizationIdentification	[0..*]	An identification that references an organization.	See table nc:IdentificationType for the data elements that shall be supported.

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
13	nc:OrganizationLocalIdentification	[0..*]	Identification assigned at a local level to an organization.	See table nc:IdentificationType for the data elements that shall be supported.
14	nc:OrganizationLocation	[0..*]	A location of an organization.	See table nc:LocationType for the data elements that shall be supported.
15	nc:OrganizationName	[0..*]	Name of an organization.	nc:TextType
16	nc:OrganizationNightContactInformation	[0..*]	A means of contacting an organization during late-night hours.	See table nc:ContactInformationType for the data elements that shall be supported.
17	nc:OrganizationOtherIdentification	[0..*]	An identification assigned to an organization.	See table nc:IdentificationType for the data elements that shall be supported.
19	nc:OrganizationPrimaryContactInformation	[0..*]	A preferred means of contacting an organization.	See table nc:ContactInformationType for the data elements that shall be supported.
20	nc:OrganizationPrincipalOfficial	[0..*]	A chief or high ranking executive of an organization.	See table nc:PersonType for the data elements that shall be supported.
21	nc:OrganizationStatus	[0..*]	A status of an organization.	See table nc:StatusType for the data elements that shall be supported.

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
22	nc:OrganizationSubUnit	[0..*]	A division of an organization.	See table nc:OrganizationType for the data elements that shall be supported.
24	nc:OrganizationTaxIdentification	[0..*]	A tax identification assigned to an organization.	See table nc:IdentificationType for the data elements that shall be supported.
25	nc:OrganizationTerminationDate	[0..*]	A date an organization went out of business.	See table nc:DateType for the data elements that shall be supported.

Table 9: EIDD nc:IdentificationType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:IdentificationID	[0..*]	A value that identifies something.	niem-xsd:string
2	Choice	[0..*]		The following options for tracking the category of the ID shall be supported:
	nc:IdentificationCategoryText		A kind of identification.	nc:TextType
	j:PersonIDCategoryCode		A kind of identifier assigned to a person.	See fbi:MNUCodeType for available values all of which shall be supported.
3	nc:IdentificationCategoryDescriptionText	[0..*]	A description of a kind of identification.	nc:TextType

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
4	nc:IdentificationEffectiveDate	[0..*]	A date at which the identification takes effect.	See table nc:DateType for the data elements that shall be supported.
5	nc:IdentificationExpirationDate	[0..*]	A date after which the identification is no longer valid.	See table nc:DateType for the data elements that shall be supported.
6	Choice	[0..*]		The following options for tracking the Jurisdiction issuing the ID shall be supported:
	nc:IdentificationJurisdictionISO3166Alpha3Code		An area, region, or unit in which a unique identification is issued.	See iso_3166:CountryAlpha3CodeType for available values all of which shall be supported
	j:IdentificationJurisdictionNCICLISCode		An area, region, or unit in which a unique identification is issued.	See fbi:LISCodeType for available values all of which shall be supported
7	nc:IdentificationSourceText	[0..*]	A person, organization, or locale which issues an identification.	nc:TextType
8	nc:IdentificationStatus	[0..*]	A status of an identification.	See table nc:StatusType for the data elements that shall be supported

Table 10: EIDD nc:StatusType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:StatusText	[0..*]	A status or condition of something or someone..	nc:TextType
2	nc:StatusDate	[0..*]	A date a status was set, effected, or reported.	See table nc:DateType for the data elements that shall be supported.
3	nc:StatusDescriptionText	[0..*]	A description of a status or condition of something or someone.	nc:TextType
4	nc:StatusIssuerIdentification	[0..*]	An identification of a person or organization which assigns a status.	See table nc:IdentificationType for the data elements that shall be supported

Table 11: EIDD nc:AddressType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	Choice	[0..*]		The following options for tracking an address must be supported:
	nc:AddressFullText		A complete address.	xsd:string
	nc:StructuredAddress		An address.	See table nc:StructuredAddressType for the data elements that must be supported.

Table 12: EIDD nc:AreaType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
3	nc:AreaPolygonGeographicCoordinate	[0..*]	A geographic coordinate identifying a location at the end of a side of a multi-sided region.	Uses the data elements defined in nc:TwoDimensionalGeographicCoordinateType; all of which shall be supported
4	nc:AreaCircularDescriptionText	[0..*]	A description of the circular area denoting the boundaries of a geographic area.	xsd:string
5	nc:AreaCircularRegion	[0..*]	A circular area identified by a center coordinate and a radius.	See table nc:CircularRegionType for the data elements that shall be supported.

Table 13: EIDD nc:ContactInformationType Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	Choice	[0..*]		The following options for tracking Contact information types shall be supported:
	nc:ContactEmailID		An electronic mailing address by which a person or organization may be contacted.	xsd:string

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
	nc:ContactInstantMessenger		A user account for an instant messaging program by which a person or organization may be contacted.	Uses the data elements defined in nc:InstantMessengerType; all of which must be supported
	nc:ContactMailingAddress		A postal address by which a person or organization may be contacted.	See table nc:AddressType for the data elements that must be supported.
	nc:ContactRadio		A method of contacting a person or organization by messages over a radio.	Uses the data elements defined in nc:ContactRadioType; all of which must be supported
	nc:ContactTelephoneNumber		A telephone number for a telecommunication device by which a person or organization may be contacted.	Uses the data elements defined in nc:InternationalTelephoneNumber; all of which must be supported
	nc:ContactMobileTelephoneNumber		A telephone number for a mobile telecommunication device by which a person or organization may be contacted.	Uses the data elements defined in nc:InternationalTelephoneNumber; all of which must be supported
2	nc:ContactEntity	[0..*]	An entity that may be contacted by using the given contact information.	See table nc:EntityType for the data elements that must be supported.

Table 14: EIDD nc:EntityType Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	Choice	[0..*]		The following options for tracking the type of organizational entities shall be supported:
	nc:EntityOrganization		An organization capable of bearing legal rights and responsibilities may be contacted.	See table nc:OrganizationType for the data elements that must be supported.
	nc:EntityPerson		A person capable of bearing legal rights and responsibilities.	See table nc:PersonType for the data elements that must be supported.

Table 15: EIDD nc:CrossStreetType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:CrossStreetDescriptionText	[0..*]	A description of a street intersection.	niem-xsd:string
2	nc:CrossStreetRelativeLocation	[0..*]	A location of something relative to a street intersection.	Uses the data elements defined in nc:RelativeLocationType; all of which must be supported

Table 16: EIDD nc:StructuredAddressType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:AddressRecipientName	[0..*]	A name of a person, organization, or other recipient to whom physical mail may be sent.	niem-xsd:string
2	Choice	[0..*]		The following options for tracking the delivery point for a location (address at a location) must be supported:
	nc:AddressBuildingText		A physical structure at an address.	niem-xsd:string
	nc:AddressDeliveryPointID		An identifier of a single place or unit at which mail is delivered.	niem-xsd:string
	nc:AddressPrivateMailboxText		A private mailbox within a company.	niem-xsd:string
	nc:AddressSecondaryUnitText		A particular unit within a larger unit or grouping at a location.	niem-xsd:string
	nc:LocationRouteName		A name and number of a postal route.	niem-xsd:string
	nc:LocationStreet		A road, thoroughfare or highway.	Uses the data elements from nc:StreetType; all of which must be supported
3	nc:LocationCityName	[0..*]	A name of a city or town.	niem-xsd:string

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
4	Choice	[0..*]		The following options for tracking the County that contains a location must be supported:
	nc:LocationCountyCode		A county, parish, vicinage, or other such geopolitical subdivision of a state.	See fips_6-4:USCountyCodeType for details
	nc:LocationCountyName		A county, parish, vicinage, or other such geopolitical subdivision of a state.	niem-xsd:string
5	Choice	[0..*]		The following options for tracking the State/Province that contains a location must be supported:
	nc:LocationStateCanadianProvinceCode		A state, commonwealth, province, or other such geopolitical subdivision of a country.	See can:CanadianProvinceCodeType for details
	nc:LocationStateFIPS10-4InternationalCode		A state, commonwealth, province, or other such geopolitical subdivision of a country.	See fips_10-4:InternationalStateCodeType for details
	nc:LocationStateFIPS5-2AlphaCode		A state, commonwealth, province, or other such geopolitical subdivision of a country.	See fips_5-2:USStateCodeType for details

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
	nc:LocationStateFIPS5-2NumericCode		A state, commonwealth, province, or other such geopolitical subdivision of a country.	See fips_5-2:USStateNumericCodeType for details
6	Choice	[0..*]		The following options for tracking the Country that contains a location must be supported:
	nc:LocationCountryFIPS10-4Code		A country, territory, dependency, or other such geopolitical subdivision of a location.	See fips_10-4:CountryCodeType for details
	nc:LocationCountryISO3166Alpha2Code		A country, territory, dependency, or other such geopolitical subdivision of a location.	See iso_3166:CountryAlpha2CodeType for details
7	nc:LocationPostalCode	[0..*]	An identifier of a post office-assigned zone for an address.	niem-xsd:string
8	nc:LocationPostalExtensionCode	[0..*]	An identifier of a smaller area within a post office-assigned zone for an address.	niem-xsd:string

Table 17: EIDD nc:CircularRegionType Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:CircularRegionCenterCoordinate	[0..*]	A geographic coordinate located at the center of a circular region.	Uses the data elements defined in nc:TwoDimensionalGeographicCoordinateType; all of which must be supported
2	nc:CircularRegionRadiusLengthMeasure	[0..*]	A distance from the center point to the circumference or boundary of a circular region.	See table nc:CircularRegionRadiusLengthMeasure for the data elements that must be supported.

Table 18: EIDD nc:CircularRegionRadiusLengthMeasure Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:MeasurePointValue	[0..*]	A specific measurement value.	xsd:decimal
2	nc:MeasureUnitText	[0..*]	A unit that qualifies the measurement value.	niem-xsd:string
3	nc:MeasureCategoryText	[0..*]	A method used to make a measurement.	niem-xsd:string
5	nc:LengthUnitCode	[0..1]	A unit of measure of a length value.	See nc:LengthUnitCode for available values all of which shall be supported

Table 19: EIDD nc:PersonPhysicalFeature Data Elements that Shall Be Supported

NIEM 2.1 ID*	Data Element that Shall be Supported	Cardinality	Description*	Notes
1	nc:PhysicalFeatureGeneralCategoryText	[0..*]	A general kind of physical feature.	xsd:string type
2	Choice	[0..*]		The following options for tracking a person's specific type of physical feature shall be supported:
	nc:PhysicalFeatureCategoryCode		A specific kind of physical feature.	fbi:SMTCodeType
	nc:PhysicalFeatureCategoryText		A specific kind of physical feature.	xsd:string type
3	nc:PhysicalFeatureDescriptionText	[0..*]	A description of a physical feature	xsd:string type
4	nc:PhysicalFeatureImage	[0..*]	A digital image of a physical feature.	See table nc:ImageType for the data elements that shall be supported.
5	nc:PhysicalFeatureLocationText	[0..*]	A location of a physical feature.	xsd:string type

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