NEMSIS 3.5 Demographic Data Recommendations

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Introduction

NEMSIS-compliant Receive and Process systems have had difficulty processing agency demographic data in current versions of NEMSIS. The difficulty is mostly caused by the fact that agency demographic data contain snapshot information about objects that persist (and slowly change) over time. When a new demographic data submission is received by a Receive and Process system, it is difficult for the system to determine whether an object within the data (for example, personnel) is a new object (for example, a newly hired personnel) or an update to an existing object (for example, an existing personnel whose name has changed).

Also, certain elements in the NEMSIS DEMDataSet should actually come from the state, not the local agencies. For those elements, the national EMS database has been receiving incorrect data from states.

Following is a recommendation for changes to the next version of NEMSIS (3.5) to improve the standardization of demographic data. The contributors to this recommendation met several times by Internet and once in person to develop the recommendation.

Overview of Recommendation

This recommendation consists of the following parts:

- Adopt StateDataSet as a mandatory part of the NEMSIS standard. Remove some elements from DEMDataSet and EMSDataSet that should be transmitted via StateDataSet only.
- Add universally unique identifiers (UUIDs) to some elements in the NEMSIS dataset.

StateDataSet

StateDataSet was introduced as an optional part of the NEMSIS 3.4 standard. Adopt StateDataSet as a mandatory part of the NEMSIS 3.5 standard.

In compliance testing, test Receive and Process systems on their ability to correctly generate StateDataSet documents and submit them via NEMSIS 3 web services.

For the national EMD database, require the submission of a StateDataSet document for a state before submission of the first DEMDataSet and EMSDataSet documents. Set a submission schedule for StateDataSet, such as within 24 hours of a change occurring but no less frequently than annually.

Remove the following elements from DEMDataSet and EMSDataSet:

- dState
- dState.01 State Required Element
- dConfiguration.02 State Certification/Licensure Levels
- dConfiguration.03 Procedures Permitted by the State
- dConfiguration.04 Medications Permitted by the State
- dConfiguration.05 Protocols Permitted by the State
- eState
- eState.01 State Required Element

Change some elements in StateDataSet to be mandatory or required, in order to reflect the current requirements of the elements that will be removed from DEMDataSet and EMSDataSet. See Appendix A: StateDataSet Changes, p. 6.

Universally Unique Identifiers

Persistent objects need to have a persistent key (identifier) that has no business meaning.

Add universally unique identifiers (UUIDs, also known as globally unique identifiers, GUIDs) as new attributes on some elements in DEMDataSet and EMSDataSet.

Require UUIDs to be generated using the [IETF RFC 4122](#) standard. RFC 4122 defines 4 algorithms for UUID generation. Do not specify which algorithm systems must use. RFC 4122-compliant implementations exist for Java, .Net, JavaScript, PHP, Python, Ruby, etc. Require UUIDs to be represented in canonical form, matching the following regular expression:

```
[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[1-5][a-fA-F0-9]{3}-[89abAB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}
```

A sample valid UUID is:

```
e48cd734-01cc-4da4-ae6a-915b0b1290f6
```

Require systems to persistently store UUIDs. An object should always be represented by the same UUID over time within a software product.

UUID Options

Two options for UUID standardization are described herein.

UUID Option A: Add UUID attributes to certain elements, with no changes to CorrelationID attributes

The UUID option supported by about 2/3 of the contributors of this recommendation is as follows:

Add a UUID attribute to any 0:M or 1:M element in DEMDataSet that has child elements (in other words, "groups"). See Appendix B: DEMDataSet UUIDs (Option A), p. 8.

Add a UUID attribute to the PatientCareReport element in EMSDataSet.

Continue the use of CorrelationID attributes as currently defined in the standard (to connect custom element results to objects in a document).

UUID Option B: Replace all CorrelationID attributes with UUID attributes

The UUID option supported by about 1/3 of the contributors of this recommendation is as follows:

Replace all CorrelationID attributes throughout the NEMSIS dataset (DEMDataSet and EMSDataSet) with UUID attributes.

Add a UUID attribute to the PatientCareReport element in EMSDataSet.

Since UUIDs uniquely identify an object across time, they also uniquely identify an object within a single XML document. Use UUIDs for the purpose for which CorrelationIDs are currently used (to connect custom element results to objects in a document).

Discussion of UUID Options

Advantages of Option A
The advantages of adding UUID attributes to certain elements and leaving CorrelationID attributes as-is are as follows:

- Option A would require systems to implement UUIDs on 18 DEMDataSet elements and 1 EMSDataSet element, and it would require no changes to the handling of CorrelationIDs. CorrelationIDs exist on approximately 150 elements, so Option B would increase the scope of the change significantly.
- CorrelationIDs are not mandatory, so a system can choose to generate them only when needed. (However, it appears that most current implementations generate CorrelationIDs all the time, regardless of whether they are needed in a particular instance.) UUIDs would need to be mandatory in order to serve their purpose of uniquely identifying objects across time.
- UUIDs must persist over time (be the same every time the XML is generated), so they must be stored by the system that generates the data and by the system that receives the data. CorrelationIDs do not need to persist over time, so they can be generated and used as needed and never stored.
- A UUID must be treated as a key. A sending can use its own internal key, but it must store and never change the UUID. A receiving system must treat the UUID as key.
- Because UUIDs are random rather than sequential, database indexes for UUIDs are less efficient to maintain.
- Translation of data from older versions to NEMSIS 3.5 would probably be impossible.
- UUIDs don't add much value to simple single-element lists (single-element 0:M occurrence).

Advantages of Option B
The advantages of adding replacing all CorrelationID attributes with UUIDs are as follows:

With Option A, having both a UUID and a CorrelationID on certain elements would be redundant.

- With UUIDs on all 0:M and 1:M elements, a receiving system could track every change as a deletion or insertion, even within single-element 0:M occurrence.
- Receiving systems (including state systems and billing systems) could do smart updates on EMSDataSet records.
- Indexes built on UUIDs would be more efficient than current implementations of indexing on a combination of NEMSIS elements. Also, since the scope of a UUID would be an agency or PCR, this mitigates the issue of index inefficiency.
- Some systems already use an RFC 4122 algorithm when generating CorrelationIDs.
- simple single-element lists (single-element 0:M occurrence), once custom data is attached, then the element looks more like a group, which would benefit from having a UUID.

Issues Not Addressed by this Recommendation

The following issues are not addressed or resolved by this recommendation:

- How a sending system can notify a receiving system that a PCR has been deleted or an agency has closed.
- Uniquely identifying objects across agencies or states, such as uniquely identifying a person who works for multiple agencies. This recommendation will help to uniquely identify the person within a given agency. However, if the person works for multiple agencies using different software products, each product will generate a different UUID for tracking the person.
- Uniquely identifying an object across different Collect and Send software used by an agency. If an agency switches from one product to another, this recommendation does not require the new product to use the same UUIDs that were generated by the previous product. The new product may generate its own UUIDs for objects.
- Universal patient identifiers. The UUIDs described in this recommendation should not be construed to represent universal patient identifiers that would uniquely identify a patient across time and healthcare providers.
- Re-hires. If a person stops working for an agency and then resumes employment with the agency later, the software may generate a new UUID for the person when re-hired.

Conclusion

The adoption of StateDataSet as a mandatory part of the NEMSIS standard and the addition of UUIDs to objects in Demographic data will facilitate better handling of NEMSIS demographic data and ensure that the national EMS database receives accurate data about states and EMS agencies.

Appendix A: StateDataSet Changes

Proposed changes are highlighted in red, reflecting current requirements in DEMDataSet and EMSDataSet.

	Current (3.4.0)			Proposed (3.5.0)				
Occurrence	ElementNumber	ElementName	National	Occurrence	Usage	IsNillable	NV	
	StateDataSet							
1:1	dConfiguration.01	State Associated with the Certification/Licensure Levels	National	1:1	Mandatory			
0:1	dCustomConfiguration			0:1				
0:M	dCustomConfiguration.CustomGroup			0:M				
0:1	dCustomConfiguration.01	Custom Data Element Title		1:1	Mandatory			
0:1	dCustomConfiguration.02	Custom Definition		1:1	Mandatory			
0:1	dCustomConfiguration.03	Custom Data Type		1:1	Mandatory			
0:1	dCustomConfiguration.04	Custom Data Element Recurrence		1:1	Mandatory			
0:1	dCustomConfiguration.05	Custom Data Element Usage		1:1	Mandatory			
0:M	dCustomConfiguration.06	Custom Data Element Potential Values		0:M				
0:M	dCustomConfiguration.07	Custom Data Element Potential NOT Values (NV)		0:M				
0:M	dCustomConfiguration.08	Custom Data Element Potential Pertinent Negative Values (PN)		0:M				
0:1	dCustomConfiguration.09	Custom Data Element Grouping ID		0:1				
0:1	eCustomConfiguration			0:1				
0:M	eCustomConfiguration.CustomGroup			0:M				
0:1	eCustomConfiguration.01	Custom Data Element Title		1:1	Mandatory			
0:1	eCustomConfiguration.02	Custom Definition		1:1	Mandatory			
0:1	eCustomConfiguration.03	Custom Data Type		1:1	Mandatory			
0:1	eCustomConfiguration.04	Custom Data Element Recurrence		1:1	Mandatory			
0:1	eCustomConfiguration.05	Custom Data Element Usage		1:1	Mandatory			
0:M	eCustomConfiguration.06	Custom Data Element Potential Values		0:M				
0:M	eCustomConfiguration.07	Custom Data Element Potential NOT Values (NV)		0:M				
0:M	eCustomConfiguration.08	Custom Data Element Potential Pertinent Negative Values (PN)		0:M				
0:1	eCustomConfiguration.09	Custom Data Element Grouping ID		0:1				
0:1	dState			0:1				
0:M	dState.01	State Required Element		0:M				
0:1	eState			0:1				
0:M	eState.01	State Required Element		0:M				

Occurrence	ElementNumber	ElementName	National	Occurrence	Usage	IsNillable	NV
		Current (3.4.0)			*Proposed (3.5.0)*		
0:1	dConfiguration			1:1			
0:M	dConfiguration.02	State Certification/Licensure Levels	National	1:M	Mandatory		
0:M	dConfiguration.ProcedureGroup			1:M			
0:1	dConfiguration.06	EMS Certification Levels Permitted to Perform Each Procedure	National	1:1	Required	Nillable	NV
0:M	dConfiguration.03	Procedures Permitted by the State	National	1:M	Required	Nillable	NV
0:M	dConfiguration.MedicationGroup			1:M			
0:1	dConfiguration.08	EMS Certification Levels Permitted to Administer Each Medication	National	1:1	Required	Nillable	NV
0:M	dConfiguration.04	Medications Permitted by the State	National	1:M	Required	Nillable	NV
0:M	dConfiguration.05	Protocols Permitted by the State	National	1:M	Required	Nillable	NV
0:1	dAgency			0:1			
0:M	dAgencyGroup			0:M			
0:1	dAgency.01	EMS Agency Unique State ID		0:1			
0:1	dAgency.02	EMS Agency Number		0:1			
0:1	dAgency.03	EMS Agency Name		0:1			
0:1	dFacility			0:1			
0:M	dFacilityGroup			0:M			
0:1	dFacility.01	Type of Facility		0:1			
0:M	dFacility.FacilityGroup			0:M			
0:1	dFacility.02	Facility Name		0:1			
0:1	dFacility.03	Facility Location Code		0:1			
0:M	dFacility.04	Hospital Designations		0:M			
0:M	dFacility.05	Facility National Provider Identifier		0:M			
0:1	dFacility.06	Facility Room, Suite, or Apartment		0:1			
0:1	dFacility.07	Facility Street Address		0:1			
0:1	dFacility.08	Facility City		0:1			
0:1	dFacility.09	Facility State		0:1			
0:1	dFacility.10	Facility ZIP Code		0:1			
0:1	dFacility.11	Facility County		0:1			
0:1	dFacility.12	Facility Country		0:1			
0:1	dFacility.13	Facility GPS Location		0:1			
0:1	dFacility.14	Facility US National Grid Coordinates		0:1			
0:M	dFacility.15	Facility Phone Number		0:M			

Appendix B: DEMDataSet UUIDs (Option A)

Occurrence	ElementNumber	ElementName	National	Add @UUID?
	DEMDataSet			
0:1	dState			(Remove from DEMDataSet)
0:M	dState.01	State Required Element		(Remove from DEMDataSet)
0:1	dCustomConfiguration			
0:M	dCustomConfiguration.CustomGroup			No (use @CustomElementID)
1:1	dCustomConfiguration.01	Custom Data Element Title		
1:1	dCustomConfiguration.02	Custom Definition		
1:1	dCustomConfiguration.03	Custom Data Type		
1:1	dCustomConfiguration.04	Custom Data Element Recurrence		
1:1	dCustomConfiguration.05	Custom Data Element Usage		
0:M	dCustomConfiguration.06	Custom Data Element Potential Values		
0:M	dCustomConfiguration.07	Custom Data Element Potential NOT Values (NV)		
0:M	dCustomConfiguration.08	Custom Data Element Potential Pertinent Negative Values (PN)		
0:1	dCustomConfiguration.09	Custom Data Element Grouping ID		
1:M	DemographicReport			Yes
1:1	dAgency			
1:1	dAgency.01	EMS Agency Unique State ID	N	
1:1	dAgency.02	EMS Agency Number	N	
0:1	dAgency.03	EMS Agency Name		
1:1	dAgency.04	EMS Agency State	N	
1:M	dAgency.AgencyServiceGroup			Yes (use Schematron rule for uniqueness on dAgency.05)
1:1	dAgency.05	EMS Agency Service Area States	N	
1:M	dAgency.06	EMS Agency Service Area County(ies)	N	
1:M	dAgency.07	EMS Agency Census Tracts	N	
1:M	dAgency.08	EMS Agency Service Area ZIP Codes	N	
1:1	dAgency.09	Primary Type of Service	N	
0:M	dAgency.10	Other Types of Service		
1:1	dAgency.11	Level of Service	N	
1:1	dAgency.12	Organization Status	N	
1:1	dAgency.13	Organizational Type	N	
1:1	dAgency.14	EMS Agency Organizational Tax Status	N	

Occurrence	ElementNumber	ElementName	National	Add @UUID?
1:M	dAgency.AgencyYearGroup			Yes (use Schematron rule for uniqueness on dAgency.15)
1:1	dAgency.15	Statistical Calendar Year	N	
1:1	dAgency.16	Total Primary Service Area Size	N	
1:1	dAgency.17	Total Service Area Population	N	
1:1	dAgency.18	911 EMS Call Center Volume per Year	N	
1:1	dAgency.19	EMS Dispatch Volume per Year	N	
1:1	dAgency.20	EMS Patient Transport Volume per Year	N	
1:1	dAgency.21	EMS Patient Contact Volume per Year	N	
0:1	dAgency.22	EMS Billable Calls per Year		
0:1	dAgency.23	EMS Agency Time Zone		
0:1	dAgency.24	EMS Agency Daylight Savings Time Use		
1:M	dAgency.25	National Provider Identifier	N	
1:M	dAgency.26	Fire Department ID Number	N	
0:1	dContact			
0:M	dContact.ContactInfoGroup			Yes
0:1	dContact.01	Agency Contact Type		
0:1	dContact.02	Agency Contact Last Name		
0:1	dContact.03	Agency Contact First Name		
0:1	dContact.04	Agency Contact Middle Name/Initial		
0:1	dContact.05	Agency Contact Address		
0:1	dContact.06	Agency Contact City		
0:1	dContact.07	Agency Contact State		
0:1	dContact.08	Agency Contact ZIP Code		
0:1	dContact.09	Agency Contact Country		
0:M	dContact.10	Agency Contact Phone Number		
0:M	dContact.11	Agency Contact Email Address		
0:1	dContact.12	EMS Agency Contact Web Address		
0:1	dContact.EMSMedicalDirectorGroup			No (0:1 occurrence)
0:1	dContact.13	Agency Medical Director Degree		
0:M	dContact.14	Agency Medical Director Board Certification Type		
0:1	dContact.15	Medical Director Compensation		
0:1	dContact.16	EMS Medical Director Fellowship Trained Status		
1:1	dConfiguration			

Occurrence	ElementNumber	ElementName	National	Add @UUID?
1:M	dConfiguration.ConfigurationGroup			Yes
1:1	dConfiguration.01	State Associated with the Certification/Licensure Levels	N	
1:M	dConfiguration.02	State Certification/Licensure Levels	N	(Remove from DEMDataSet)
1:M	dConfiguration.03	Procedures Permitted by the State	N	(Remove from DEMDataSet)
1:M	dConfiguration.04	Medications Permitted by the State	N	(Remove from DEMDataSet)
1:M	dConfiguration.05	Protocols Permitted by the State	N	(Remove from DEMDataSet)
1:M	dConfiguration.ProcedureGroup			Yes
1:1	dConfiguration.06	EMS Certification Levels Permitted to Perform Each Procedure	N	
1:M	dConfiguration.07	EMS Agency Procedures	N	
1:M	dConfiguration.MedicationGroup			Yes
1:1	dConfiguration.08	EMS Certification Levels Permitted to Administer Each Medication	N	
1:M	dConfiguration.09	EMS Agency Medications	N	
1:M	dConfiguration.10	EMS Agency Protocols	N	
1:M	dConfiguration.11	EMS Agency Specialty Service Capability	N	
0:1	dConfiguration.12	Billing Status		
1:1	dConfiguration.13	Emergency Medical Dispatch (EMD) Provided to EMS Agency Service Area	N	
0:M	dConfiguration.14	EMD Vendor		
1:M	dConfiguration.15	Patient Monitoring Capability(ies)	N	
1:M	dConfiguration.16	Crew Call Sign	N	
0:M	dConfiguration.17	Dispatch Center (CAD) Name or ID		
0:1	dLocation			
0:M	dLocation.LocationGroup			Yes
0:1	dLocation.01	EMS Location Type		
0:1	dLocation.02	EMS Location Name		
0:1	dLocation.03	EMS Location Number		
0:1	dLocation.04	EMS Location GPS		
0:1	dLocation.05	EMS Location US National Grid Coordinates		
0:1	dLocation.06	EMS Location Address		
0:1	dLocation.07	EMS Location City		
0:1	dLocation.08	EMS Location State		
0:1	dLocation.09	EMS Station or Location ZIP Code		
0:1	dLocation.10	EMS Location County		

Occurrence	ElementNumber	ElementName	National	Add @UUID?
0:1	dLocation.11	EMS Location Country		
0:M	dLocation.12	EMS Location Phone Number		
0:1	dVehicle			
0:M	dVehicle.VehicleGroup			Yes
0:1	dVehicle.01	Unit/Vehicle Number		
0:1	dVehicle.02	Vehicle Identification Number		
0:1	dVehicle.03	EMS Unit Call Sign		
0:1	dVehicle.04	Vehicle Type		
0:M	dVehicle.VehicleCertificationLevelsGroup			Yes
0:1	dVehicle.05	Crew State Certification/Licensure Levels		
0:1	dVehicle.06	Number of Each EMS Personnel Level on Normal 911 Ambulance Response		
0:1	dVehicle.07	Number of Each EMS Personnel Level on Normal 911 Response (Non-Transport) Vehicle		
0:1	dVehicle.08	Number of Each EMS Personnel Level on Normal Medical (Non-911) Transport Ambulance		
0:1	dVehicle.09	Vehicle Initial Cost		
0:1	dVehicle.10	Vehicle Model Year		
0:M	dVehicle.YearGroup			Yes (use Schematron rule for uniqueness on dVehicle.11)
0:1	dVehicle.11	Year Miles/Kilometers Hours Accrued		
0:1	dVehicle.12	Annual Vehicle Hours		
0:1	dVehicle.13	Annual Vehicle Miles/Kilometers		
0:1	dPersonnel			
0:M	dPersonnel.PersonnelGroup			Yes
0:1	dPersonnel.NameGroup			No (0:1 occurrence)
0:1	dPersonnel.01	EMS Personnel's Last Name		
0:1	dPersonnel.02	EMS Personnel's First Name		
0:1	dPersonnel.03	EMS Personnel's Middle Name/Initial		
0:1	dPersonnel.AddressGroup			No (0:1 occurrence)
0:1	dPersonnel.04	EMS Personnel's Mailing Address		
0:1	dPersonnel.05	EMS Personnel's City of Residence		
0:1	dPersonnel.06	EMS Personnel's State		
0:1	dPersonnel.07	EMS Personnel's ZIP Code		
0:1	dPersonnel.08	EMS Personnel's Country		
0:M	dPersonnel.09	EMS Personnel's Phone Number		

Occurrence	ElementNumber	ElementName	National	Add @UUID?
0:M	dPersonnel.10	EMS Personnel's Email Address		
0:1	dPersonnel.11	EMS Personnel's Date of Birth		
0:1	dPersonnel.12	EMS Personnel's Gender		
0:M	dPersonnel.13	EMS Personnel's Race		
0:1	dPersonnel.14	EMS Personnel's Citizenship		
0:1	dPersonnel.15	EMS Personnel's Highest Educational Degree		
0:M	dPersonnel.16	EMS Personnel's Degree Subject/Field of Study		
0:M	dPersonnel.17	EMS Personnel's Motor Vehicle License Type		
0:M	dPersonnel.ImmunizationsGroup			Yes
0:1	dPersonnel.18	EMS Personnel's Immunization Status		
0:1	dPersonnel.19	EMS Personnel's Immunization Year		
0:M	dPersonnel.20	EMS Personnel's Foreign Language Ability		
0:1	dPersonnel.21	EMS Personnel's Agency ID Number		
0:M	dPersonnel.LicensureGroup			Yes
0:1	dPersonnel.22	EMS Personnel's State of Licensure		
0:1	dPersonnel.23	EMS Personnel's State's Licensure ID Number		
0:1	dPersonnel.24	EMS Personnel's State EMS Certification Licensure Level		
0:1	dPersonnel.25	EMS Personnel's State EMS Current Certification Date		
0:1	dPersonnel.26	EMS Personnel's Initial State's Licensure Issue Date		
0:1	dPersonnel.27	EMS Personnel's Current State's Licensure Expiration Date		
0:1	dPersonnel.28	EMS Personnel's National Registry Number		
0:1	dPersonnel.29	EMS Personnel's National Registry Certification Level		
0:1	dPersonnel.30	EMS Personnel's Current National Registry Expiration Date		
0:1	dPersonnel.31	EMS Personnel's Employment Status		
0:1	dPersonnel.32	EMS Personnel's Employment Status Date		
0:1	dPersonnel.33	EMS Personnel's Hire Date		
0:1	dPersonnel.34	EMS Personnel's Primary EMS Job Role		
0:M	dPersonnel.35	EMS Personnel's Other Job Responsibilities		
0:1	dPersonnel.36	EMS Personnel's Total Length of Service in Years		
0:1	dPersonnel.37	EMS Personnel's Date Length of Service Documented		
0:M	dPersonnel.CertificationLevelGroup			Yes
0:1	dPersonnel.38	EMS Personnel's Practice Level		
0:1	dPersonnel.39	Date of Personnel's Certification or Licensure for Agency		

Occurrence	ElementNumber	ElementName	National	Add @UUID?
0:1	dDevice			
0:M	dDevice.DeviceGroup			Yes
0:1	dDevice.01	Medical Device Serial Number		
0:1	dDevice.02	Medical Device Name or ID		
0:M	dDevice.03	Medical Device Type		
0:1	dDevice.04	Medical Device Manufacturer		
0:1	dDevice.05	Medical Device Model Number		
0:1	dDevice.06	Medical Device Purchase Date		
0:1	dFacility			
0:M	dFacilityGroup			Yes
0:1	dFacility.01	Type of Facility		
0:M	dFacility.FacilityGroup			Yes
0:1	dFacility.02	Facility Name		
0:1	dFacility.03	Facility Location Code		
0:M	dFacility.04	Hospital Designations		
0:M	dFacility.05	Facility National Provider Identifier		
0:1	dFacility.06	Facility Room, Suite, or Apartment		
0:1	dFacility.07	Facility Street Address		
0:1	dFacility.08	Facility City		
0:1	dFacility.09	Facility State		
0:1	dFacility.10	Facility ZIP Code		
0:1	dFacility.11	Facility County		
0:1	dFacility.12	Facility Country		
0:1	dFacility.13	Facility GPS Location		
0:1	dFacility.14	Facility US National Grid Coordinates		
0:M	dFacility.15	Facility Phone Number		
0:1	dCustomResults			
0:M	dCustomResults.ResultsGroup			No (use Schematron rule for uniqueness on dCustomResults.02)
1:M	dCustomResults.01	Custom Data Element Result		
1:1	dCustomResults.02	Custom Element ID Referenced		
0:1	dCustomResults.03	CorrelationID of DemographicReport Element or Group		