# Overview

This change log characterizes any revisions to-date to the NEMSIS Version 3 standard originally released July 21, 2011. This is a living document. Subsequent updates will be at the top of this document and will be separated from the previous update. Please note that any changes made effective a certain date will maintain that date on the footer of the page.

# Changes History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0.5</td>
<td>Sept 27, 2011</td>
<td>“Recommended” added to Usage list. This represents 72 of the 102 State Recommended elements. Recurrence changed for these elements as well from 1:1 or 1:M to 0:1 or 0:M. Updates have been made to elements related to: data type, recurrence, correlationID, pertinent negative value, reordering of the grouping of sections, new comments, additional values New “Type” or “Simple Type” have been developed for elements.</td>
</tr>
<tr>
<td>3.0.4</td>
<td>Sept 7, 2011</td>
<td>Attributes added, Code Lists updated New element eOutcome.17 (Outcome at Hospital Discharge) has been added.</td>
</tr>
<tr>
<td>3.0.3</td>
<td>Aug 30, 2011</td>
<td>Updates have been made to element definition, recurrence, and comments. Updates have been made to data type constraints. Updates have been made to ensure elements with recurrence 0:M or 1:M contains the correlationID attribute. New element eSituation.17 (Patient Activity) has been added.</td>
</tr>
<tr>
<td>3.0.2</td>
<td>Aug 16, 2011</td>
<td>Updates have been made to the first 2-digits of the 7-digit codes for all enumerated code value lists in the Demographic Dataset Elements. Updates have been made to recurrence and comments in eOther elements.</td>
</tr>
<tr>
<td>Version</td>
<td>Date</td>
<td>Updates</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3.0.1</td>
<td>Aug 9, 2011</td>
<td>Updates have been made to state elements, enumerated list (value) descriptions.</td>
</tr>
<tr>
<td>3.0.0</td>
<td>Aug 1, 2011</td>
<td>Updates have been made to element names, definitions, data types, constraints, enumerated list (value) descriptions, data element comments, patterns, usage, NOT values, nillable, national, and state. The formatting of the Element Page has changed to show an “Attributes” section. Attributes include: NOT Values, Pertinent Negatives, Phone Number Type, Current Status Type (Active or Inactive), etc. For the full list see summary below. Users will no longer see a separate section listing the choices for NOT Values or Pertinent Negatives. These will be incorporated into the Attributes section.</td>
</tr>
<tr>
<td>File</td>
<td>Change (Yes / No)</td>
<td>File</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>Yes</td>
<td>eDisposition</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eHistory</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
</tr>
<tr>
<td>dAgency</td>
<td>Yes</td>
<td>eMedDevice</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>Yes</td>
<td>eMedications</td>
</tr>
<tr>
<td>dContact</td>
<td>No</td>
<td>eNarrative</td>
</tr>
<tr>
<td>dCustom</td>
<td>No</td>
<td>eOther</td>
</tr>
<tr>
<td>dDevice</td>
<td>No</td>
<td>eOutcome</td>
</tr>
<tr>
<td>dFacility</td>
<td>Yes</td>
<td>ePatient</td>
</tr>
<tr>
<td>dLocation</td>
<td>No</td>
<td>ePayment</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>No</td>
<td>eProcedures</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
</tr>
<tr>
<td>dVehicle</td>
<td>No</td>
<td>eRecord</td>
</tr>
<tr>
<td>eAirway</td>
<td>Yes</td>
<td>eResponse</td>
</tr>
<tr>
<td>eArrest</td>
<td>Yes</td>
<td>eScene</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
</tr>
<tr>
<td>eCustom</td>
<td>No</td>
<td>eTimes</td>
</tr>
<tr>
<td>eDevice</td>
<td>No</td>
<td>eVitals</td>
</tr>
</tbody>
</table>
Usage Value Added

Currently “Usage” allows for Mandatory, Required, and Optional. National element’s usage only allows for Mandatory or Required, while State element’s usage allows only for Required or Optional.

Table 1 below shows the current configuration between Usage, National/State element, Recurrence, NOT Values (NV), and is Nillable. This means that every State element that has a usage of Required must be included in every submission. State elements are only “recommended” to be collected at the state level. With this in mind a new usage value called recommended, as shown in Table 2, was added. Table 3 shows the 72 elements that were affected (29 Demographic Elements and 43 EMS Elements).

Table 1 – Previous configuration

<table>
<thead>
<tr>
<th>Usage</th>
<th>National/State</th>
<th>Recurrence</th>
<th>Not Values (NV)</th>
<th>Is Nillable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory</td>
<td>National</td>
<td>1 : *</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Required</td>
<td>National and/or State</td>
<td>1 : *</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Optional</td>
<td>State</td>
<td>0 : *</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Table 2 – New configuration with addition of “Recommended” usage value.

<table>
<thead>
<tr>
<th>Usage</th>
<th>National/State</th>
<th>Recurrence</th>
<th>Not Values (NV)</th>
<th>Is Nillable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandatory</td>
<td>National</td>
<td>1 : *</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Required</td>
<td>National</td>
<td>1 : *</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Recommended</td>
<td>State</td>
<td>0 : *</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Optional</td>
<td>State</td>
<td>0 : *</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Table 3

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demographic DataSet Elements (29)</td>
<td></td>
</tr>
<tr>
<td>dAgency.03</td>
<td>EMS Agency Name</td>
</tr>
<tr>
<td>dAgency.10</td>
<td>Other Types of Service</td>
</tr>
<tr>
<td>dAgency.22</td>
<td>EMS Billable Calls per Year</td>
</tr>
<tr>
<td>dContact.01</td>
<td>Agency Contact Type</td>
</tr>
<tr>
<td>dContact.02</td>
<td>Agency Contact Last Name</td>
</tr>
<tr>
<td>dContact.03</td>
<td>Agency Contact First Name</td>
</tr>
<tr>
<td>dContact.05</td>
<td>Agency Contact Address</td>
</tr>
<tr>
<td>dContact.06</td>
<td>Agency Contact City</td>
</tr>
<tr>
<td>dContact.07</td>
<td>Agency Contact State</td>
</tr>
<tr>
<td>dContact.08</td>
<td>Agency Contact ZIP Code</td>
</tr>
<tr>
<td>dContact.10</td>
<td>Agency Contact Phone Number</td>
</tr>
<tr>
<td>dContact.11</td>
<td>Agency Contact Email Address</td>
</tr>
<tr>
<td>dContact.12</td>
<td>EMS Agency Contact Web Address</td>
</tr>
<tr>
<td>dContact.13</td>
<td>Agency Medical Director Degree</td>
</tr>
<tr>
<td>dContact.14</td>
<td>Agency Medical Director Board Certification Type</td>
</tr>
<tr>
<td>dConfiguration.14</td>
<td>EMD Vendor</td>
</tr>
<tr>
<td>dVehicle.01</td>
<td>Unit/Vehicle Number</td>
</tr>
<tr>
<td>dVehicle.04</td>
<td>Vehicle Type</td>
</tr>
<tr>
<td>dVehicle.10</td>
<td>Vehicle Model Year</td>
</tr>
<tr>
<td>dPersonnel.11</td>
<td>EMS Personnel's Date of Birth</td>
</tr>
<tr>
<td>dPersonnel.12</td>
<td>EMS Personnel's Gender</td>
</tr>
<tr>
<td>dPersonnel.13</td>
<td>EMS Personnel's Race</td>
</tr>
<tr>
<td>dPersonnel.22</td>
<td>EMS Personnel's State of Licensure</td>
</tr>
<tr>
<td>dPersonnel.23</td>
<td>EMS Personnel's State's Licensure ID Number</td>
</tr>
<tr>
<td>dPersonnel.24</td>
<td>EMS Personnel's State EMS Certification Licensure Level</td>
</tr>
<tr>
<td>dPersonnel.31</td>
<td>EMS Personnel's Employment Status</td>
</tr>
<tr>
<td>dPersonnel.32</td>
<td>EMS Personnel's Employment Status Date</td>
</tr>
<tr>
<td>dPersonnel.34</td>
<td>EMS Personnel's Primary EMS Job Role</td>
</tr>
<tr>
<td>dPersonnel.35</td>
<td>EMS Personnel's Other Job Responsibilities</td>
</tr>
</tbody>
</table>

**EMS DataSet Elements (43)**

<p>| eResponse.02 | EMS Agency Name |
| eCrew.01 | Crew Member ID |
| eCrew.02 | Crew Member Level |
| eCrew.03 | Crew Member Response Role |
| eTimes.08 | Transfer of EMS Patient Care Date/Time |
| ePatient.02 | Last Name |
| ePatient.03 | First Name |
| eScene.09 | Incident Facility Code |
| eScene.16 | Incident City |
| eSituation.03 | Complaint Type |
| eSituation.04 | Complaint |
| eSituation.05 | Duration of Complaint |
| eSituation.06 | Time Units of Duration of Complaint |
| eSituation.14 | Work-Related Illness/Injury |
| eInjury.02 | Mechanism of Injury |
| eInjury.07 | Use of Occupant Safety Equipment |
| eArrest.15 | Date/Time Resuscitation Discontinued |
| eHistory.05 | Advance Directives |
| eHistory.06 | Medication Allergies |
| eHistory.12 | Current Medications |
| eNarrative.01 | Patient Care Report Narrative |
| eVitals.07 | DBP (Diastolic Blood Pressure) |
| eVitals.23 | Total Glasgow Coma Score |
| eVitals.24 | Temperature |
| eVitals.28 | Pain Scale Type |
| eExam.01 | Estimated Body Weight in Kilograms |
| eExam.02 | Length Based Tape Measure |
| eExam.03 | Date/Time of Assessment |
| eMedications.09 | Medication Crew (Healthcare Professionals) ID |
| eProcedures.09 | Procedure Crew Members ID |
| eProcedures.13 | Vascular Access Location |
| eAirway.01 | Indications for Invasive Airway |
| eAirway.02 | Date/Time Airway Device Placement Confirmation |
| eAirway.03 | Airway Device Being Confirmed |
| eAirway.04 | Airway Device Placement Confirmed Method |</p>
<table>
<thead>
<tr>
<th>eAirway.06</th>
<th>Type of Individual Confirming Airway Device Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>eAirway.07</td>
<td>Crew Member ID</td>
</tr>
<tr>
<td>eAirway.08</td>
<td>Airway Complications Encountered</td>
</tr>
<tr>
<td>eDisposition.01</td>
<td>Destination/Transferred To, Name</td>
</tr>
<tr>
<td>eDisposition.02</td>
<td>Destination/Transferred To, Code</td>
</tr>
<tr>
<td>eDisposition.11</td>
<td>Number of Patients Transported in this EMS Unit</td>
</tr>
<tr>
<td>eOther.06</td>
<td>Type of Suspected EMS Blood/Body Fluid Exposure, Injury, or Death</td>
</tr>
<tr>
<td>eOther.08</td>
<td>Crew Member Completing this Report</td>
</tr>
</tbody>
</table>

**EMSDataSet**

**eCustomConfiguration**

- Added Type
  
  **Old:**  ---
  
  **New:** eCustomResults

**commonTypes**

**New Simple Type**

- icd10CodeInjury
  
  **Data Type:** string
  
  **Restriction (Pattern):** [S-T]{1}[0-9]{2}
  
  **Elements Impacted:** eInjury.01 Cause of Injury

**PN.NotPerformedByEMS**

- Documentation Change
  
  **Old:** None Reported
  
  **New:** Not Performed by EMS

  **Elements Impacted:** All Exam “Assessments”:

<table>
<thead>
<tr>
<th>eExam.04 Skin Assessment</th>
<th>eExam.12 Pelvis/Genitourinary Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>eExam.05 Head Assessment</td>
<td>eExam.14 Back and Spine Assessment</td>
</tr>
<tr>
<td>eExam.06 Face Assessment</td>
<td>eExam.16 Extremities Assessment</td>
</tr>
<tr>
<td>eExam.07 Neck Assessment</td>
<td>eExam.18 Eye Assessment</td>
</tr>
<tr>
<td>eExam.08 Chest/Lungs Assessment</td>
<td>eExam.19 Mental Status Assessment</td>
</tr>
<tr>
<td>eExam.09 Heart Assessment</td>
<td>eExam.20 Neurological Assessment</td>
</tr>
<tr>
<td>eExam.11 Abdomen Assessment</td>
<td></td>
</tr>
</tbody>
</table>

**dConfiguration**

**dConfiguration.16 – Crew Call Sign**

- Recurrence Change
  
  **Old:** 1 : 1
  
  **New:** 1 : M
**dFacility**  
**Added New Group Element**  
- Added dFacility.FacilityGroup  
- Recurrence 0 : M  
- Added attribute correlationID

**dFacility.FacilityGroup**  
- Renamed Group  
  Old: dFacility.FacilityGroup  
  New: dFacility.FacilityInformationGroup  
- Moved to new group dFacility.FacilityGroup

**dFacility.01 – Type of Facility**  
- Recurrence Change  
  Old: 0 : M  
  New: 0 : 1  
- Removed Attribute correlationID  
- Moved to new group dFacility.FacilityGroup

**dAgency**  
**dAgency.02 – EMS Agency Number**  
- Recurrence Change  
  Old: 1 : M  
  New: 1 : 1

**eAirway**  
**eAirwayDevicePlacementGroup**  
- Removed this group because it is 1 : 1 and not needed

**ConfirmationGroup**  
- Moved this group under AirwayGroup

**eAirway.02 Date/Time Airway Device Placement Confirmation**  
- Moved to ConfirmationGroup

**eArrest**  
**eArrest.13 – Neurological Outcome at Hospital Discharge**  
- Code Enumeration Change  
  Old: 3013001 - CPC 1 or 2  
  3013003 - CPC 3 or 4  
  New: 3013001 - CPC 1 Good Cerebral Performance  
  3013003 - CPC 2 Moderate Cerebral Disability  
  3013005 - CPC 3 Severe Cerebral Disability  
  3013007 - CPC 4 Coma or Vegetative State
**eInjury**

**eInjury.01 – Cause of Injury**
- Data Type Change
  - **Old:** icd10Code
  - **New:** icd10Codelnjury
- Changed Pattern
  - **Old:** [A-Z]{1}[0-9]{2}([A-Za-z0-9]{1,4})?
  - **New:** [S-T]{1}[0-9]{2}([A-Za-z0-9]{1,4})? | [V-Y]{1}[0-9]{2}([A-Za-z0-9]{1,4})?
- Comment Change
  - **Old:** Code list is represented in ICD-10-CM: Injury, poisoning and certain other consequences of external causes (S00 – T79.4).
  - **New:** Suggested code list is represented in ICD-10-CM: External Causes of Morbidity, Injury, Poisoning and Certain other Consequences of External Causes with the Range (S00 through T79.4 and V00 through Y38.9X2). It is not expected that EMS will utilize the 7th digit, often used to describe the type of encounter (A-Initial Encounter, D-Subsequent Encounter, S-Sequela). Thus, both S and T codes should be limited to 5 or 6 digits at the most

Code list is represented in ICD-10 Codes.
Product - UMLS Metathesaurus4000

**eOther**

**eOther.05 – Suspected EMS Work Related Exposure, Injury, or Death**
- Recurrence Change
  - **Old:** 1 : M
  - **New:** 1 : 1

**eOther.07 – Natural, Suspected, Intentional, or Unintentional Disaster**
- Recurrence Change
  - **Old:** 0 : 1
  - **New:** 0 : M

**eMedication**

**eMedications.08 - Medication Complication**
- Added Code
  - **Old:** ----
  - **New:** 3907021 Hypothermia

**eProcedure**

**eProcedures.07 - Procedure Complication**
- Added Code
  - **Old:** ----
  - **New:** 3907023 Hypothermia
**eSituation**

**eSituation.17 – Patient Activity**
- Removed Version 2 Element
### Version 3.0.4  Date  September 07, 2011

<table>
<thead>
<tr>
<th>File</th>
<th>Change (Yes / No)</th>
<th>File</th>
<th>Change (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
<td>No</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>No</td>
<td>eDisposition</td>
<td>No</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
<td>Yes</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eHistory</td>
<td>No</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
<td>No</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
<td>No</td>
</tr>
<tr>
<td>dAgency</td>
<td>Yes</td>
<td>eMedDevice</td>
<td>No</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>No</td>
<td>eMedications</td>
<td>No</td>
</tr>
<tr>
<td>dContact</td>
<td>No</td>
<td>eNarrative</td>
<td>No</td>
</tr>
<tr>
<td>dCustom</td>
<td>No</td>
<td>eOther</td>
<td>No</td>
</tr>
<tr>
<td>dDevice</td>
<td>No</td>
<td>eOutcome</td>
<td>Yes</td>
</tr>
<tr>
<td>dFacility</td>
<td>No</td>
<td>ePatient</td>
<td>No</td>
</tr>
<tr>
<td>dLocation</td>
<td>No</td>
<td>ePayment</td>
<td>No</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>No</td>
<td>eProcedures</td>
<td>No</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
<td>No</td>
</tr>
<tr>
<td>dVehicle</td>
<td>No</td>
<td>eRecord</td>
<td>No</td>
</tr>
<tr>
<td>eAirway</td>
<td>No</td>
<td>eResponse</td>
<td>No</td>
</tr>
<tr>
<td>eArrest</td>
<td>No</td>
<td>eScene</td>
<td>No</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
<td>No</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
<td>No</td>
</tr>
<tr>
<td>eCustom</td>
<td>No</td>
<td>eTimes</td>
<td>No</td>
</tr>
<tr>
<td>eDevice</td>
<td>No</td>
<td>eVitals</td>
<td>No</td>
</tr>
</tbody>
</table>
General
Overview and Summary
Under heading "National and State Element Indicator", the third line "at the local EMS agency level and submitted to the state." has been removed.

Namespace and TargetNamespace
- Added the following namespace and targetNamespace to all XSDs
  xmlns="http://www.nemsis.org"
  targetNamespace="http://www.nemsis.org"

CommonTypes
Removed Code: 9914007 – Airway-Paralytic (RSI)

dAgency
dAgency.07 – EMS Agency Census Tracts
dAgency.08 – EMS Agency Service Area ZIP Codes
- Add attributes: Current Status, Current Status Date

eOutcome
eOutcome.17 – (New Element)
  Name: Outcome at Hospital Discharge
  Definition: The patient’s functional status at time of hospital discharge.
  Data Type: OutcomeAtHospitalDischarge

<table>
<thead>
<tr>
<th>National Element</th>
<th>Yes</th>
<th>Pertinent Negatives (PN)</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Element</td>
<td>Yes</td>
<td>NOT Values (NV)</td>
<td>Yes</td>
</tr>
<tr>
<td>Version 2 Element</td>
<td>Yes</td>
<td>Is Nillable</td>
<td>Yes</td>
</tr>
<tr>
<td>Usage</td>
<td>Optional</td>
<td>Recurrence</td>
<td>0:1</td>
</tr>
</tbody>
</table>

Constraints:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4317001</td>
<td>No symptoms at all</td>
</tr>
<tr>
<td>4317003</td>
<td>No significant disability despite symptoms; able to carry out all usual duties</td>
</tr>
<tr>
<td>4317005</td>
<td>Slight disability; unable to carry out all previous activities, but able to look after own affairs without assistance</td>
</tr>
<tr>
<td>4317007</td>
<td>Moderate disability; requiring some help, but able to walk without assistance</td>
</tr>
<tr>
<td>4317009</td>
<td>Moderately severe disability; unable to walk without assistance and unable</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4317011</td>
<td>Severe disability; bedridden, incontinent and requiring constant nursing care and attention</td>
</tr>
<tr>
<td>4317013</td>
<td>Dead</td>
</tr>
</tbody>
</table>

to attend to own bodily needs without assistance
<table>
<thead>
<tr>
<th>File</th>
<th>Change (Yes / No)</th>
<th>File</th>
<th>Change (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
<td>No</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>No</td>
<td>eDisposition</td>
<td>Yes</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
<td>No</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eHistory</td>
<td>No</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
<td>No</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
<td>No</td>
</tr>
<tr>
<td>dAgency</td>
<td>No</td>
<td>eMedDevice</td>
<td>No</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>Yes</td>
<td>eMedications</td>
<td>No</td>
</tr>
<tr>
<td>dContact</td>
<td>No</td>
<td>eNarrative</td>
<td>No</td>
</tr>
<tr>
<td>dCustom</td>
<td>No</td>
<td>eOther</td>
<td>Yes</td>
</tr>
<tr>
<td>dDevice</td>
<td>No</td>
<td>eOutcome</td>
<td>Yes</td>
</tr>
<tr>
<td>dFacility</td>
<td>Yes</td>
<td>ePatient</td>
<td>No</td>
</tr>
<tr>
<td>dLocation</td>
<td>No</td>
<td>ePayment</td>
<td>Yes</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>No</td>
<td>eProcedures</td>
<td>No</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
<td>No</td>
</tr>
<tr>
<td>dVehicle</td>
<td>No</td>
<td>eRecord</td>
<td>No</td>
</tr>
<tr>
<td>eAirway</td>
<td>No</td>
<td>eResponse</td>
<td>No</td>
</tr>
<tr>
<td>eArrest</td>
<td>No</td>
<td>eScene</td>
<td>No</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
<td>Yes</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
<td>No</td>
</tr>
<tr>
<td>eCustom</td>
<td>No</td>
<td>eTimes</td>
<td>No</td>
</tr>
<tr>
<td>eDevice</td>
<td>No</td>
<td>eVitals</td>
<td>No</td>
</tr>
</tbody>
</table>
**CommonType**

- **GraphicType**
  - New Values: doc, docx, pdf, mic
  - Elements Affected
    - eLabs.07 - Imaging Study File or Waveform Graphic Type
    - eDevice.04 - Waveform Graphic Type
    - eOther.10 - File Attachment Type
    - eOther.17 - Signature File Type

- **CityGnisCode**
  - Data Type Change
    - **Old**: Data Type: String; minLength 5: maxLength 5
    - **New**: Data Type: Positive Integer, (with no min or maxLength)
  - Comment Change
    - **Added**: Based on GNIS Civil Code or Populated Place code.
    - GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm
  - Elements Affected
    - dContact.06 - Agency Contact City
    - dLocation.07 - EMS Location City
    - dPersonnel.05 - EMS Personnel's City of Residence
    - dFacility.09 - Facility City
    - ePatient.06 - Patient's Home City
    - ePayment.13 - Insurance Company City
    - ePayment.27 - Closest Relative/ Guardian City
    - ePayment.35 - Patient's Employer's City
    - eScene.16 - Incident City
    - eDisposition.04 - Destination City

- **TimeStampType**
  - Constraint Change
    - **Old**: minInclusive= 1950-01-01T00:00:00; maxInclusive = 2050-01-01T00:00:00
    - **New**: minInclusive= 1950-01-01T00:00:00-00:00; maxInclusive = 2050-01-01T00:00:00-00:00

- **dConfiguration**
  - **dConfiguration.16 - Crew Call Sign**
    - Definition Change:
      - **Old**: The EMS crew call sign used to dispatch and communicate with the unit. This may be the same as the EMS Unit/ Vehicle Number in many agencies.
      - **New**: The EMS crew call sign used to dispatch and communicate with the crew. This may be the same as the EMS Unit/ Vehicle Number in many agencies.
    - Recurrence Change:
      - **Old**: 1:1
      - **New**: 1:M
    - Comment Change:
      - **Old**: xx
      - **New**: The values created by the EMS agency in this element should be populate eResponse.14 EMS Unit Call Sign.
**dFacility**

**dFacility.04 - Hospital Designation**
- Definition change:
  
  **Old:** The designation associated with the hospital for this transport (e.g. Trauma, STEMI, Peds, etc)
  
  **New:** The designation(s) associated with the hospital (e.g. Trauma, STEMI, Peds, etc)

**dFacility.06**

Element removed

**eDisposition**

**eDisposition.23 - Hospital Designation:**

Version 3 Changes Implemented comment

**Old:** ---

**New:** Added to aid in determining if patients are transported to the appropriate hospital based on provider impression, assessment, and treatment.

**eInjury**

**eInjury.26 - ACN Vehicle Seat Location**

- Recurrence Change

  **Old:** 0:M

  **New:** 0:1

**eInjury.29 – ACN Incident Airbag Deployed**

- Element moved to within the group “eInjury.SeatGroup”

**eOther**

**eOther.05 & eOther.07**

- Elements Swapped

  **Old:** eOther.05 – Natural, Suspected, Intentional, or Unintentional Disaster
  
  eOther.07 – Suspected EMS Work Related Exposure, Injury, or Death

  **New:** eOther.07 – Natural, Suspected, Intentional, or Unintentional Disaster
  
  eOther.05 – Suspected EMS Work Related Exposure, Injury, or Death

**eOther.09 - External Electronic Documents**

- Recurrence Change

  **Old:** 0:M

  **New:** 0:1
eOutcome

- **eOutcome.08 - Emergency Department Recorded Cause of Injury**
- **eOutcome.09 - Emergency Department Procedures**
- **eOutcome.10 - Emergency Department Diagnosis**
- **eOutcome.12 - Hospital Procedures**
- **eOutcome.13 - Hospital Diagnosis**

  - **Comment Change:**
    - **Old:** This information can be submitted as free text or ICD10 codes.
    - **New:** Code list is represented in ICD-10 Codes.
      - Website: http://uts.nlm.nih.gov
      - Product: UMLS Metathesaurus

  - **Constraint Change:**
    - **Old:** String minLenth 2, maxLenght 100
    - **New:** ICD-10 pattern

- **eOutcome.14 Total ICU Length of Stay**

  - **Constraint Change:**
    - **Old:** string, minLength 2
    - **New:** integer, minLength 1

- **eOutcome.14 Total Ventilator Days**

  - **Constraint Change:**
    - **Old:** string, minLength 2
    - **New:** integer, minLength 2

---

**ePayment**

- **ePayment.52 - CMS Transportation Indicator**

  - **Definition Change**
    - **Old:** "The CMS Ambulance Fee Schedule Transportation and Air Medical Transportation Indicators are used to better describe....."
    - **New:** "The CMS Ambulance Fee Schedule Transportation and Air Medical Transportation Indicators are used to better describe why it was necessary for the patient to be transported in a particular way or circumstance."

---

**eSituation**

- **eSituation.17 – (New Element)**

  - **Name:** Patient Activity
  - **Definition:** The activity the patient was involved in at the time the patient experienced the onset of symptoms or experienced an injury.
  - **Data Type:** icd10Activity (String)

<table>
<thead>
<tr>
<th>National Element</th>
<th>No</th>
<th>Pertinent Negatives (PN)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Element</td>
<td>No</td>
<td>NOT Values (NV)</td>
<td>No</td>
</tr>
<tr>
<td>Version 2 Element</td>
<td></td>
<td>Is Nillable</td>
<td>No</td>
</tr>
<tr>
<td>Usage</td>
<td>Optional</td>
<td>Recurrence</td>
<td>0:M</td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td>-----</td>
</tr>
</tbody>
</table>

**Constraints:**

**Pattern** \[Y\]{1}[0-9]{2}([A-Za-z0-9]{1,4})?

**Data Element Comment:** Code list is represented in ICD-10-CM: Diagnoses Codes. This list will only contain specific Y codes, see suggested NEMSIS list of activity codes (Y93).
<table>
<thead>
<tr>
<th>File</th>
<th>Change (Yes / No)</th>
<th>File</th>
<th>Change (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
<td>No</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>No</td>
<td>eDisposition</td>
<td>No</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
<td>No</td>
</tr>
<tr>
<td>commonTypes</td>
<td>No</td>
<td>eHistory</td>
<td>No</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
<td>No</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
<td>No</td>
</tr>
<tr>
<td>dAgency</td>
<td>Yes</td>
<td>eMedDevice</td>
<td>No</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>Yes</td>
<td>eMedications</td>
<td>No</td>
</tr>
<tr>
<td>dContact</td>
<td>Yes</td>
<td>eNarrative</td>
<td>No</td>
</tr>
<tr>
<td>dCustom</td>
<td>Yes</td>
<td>eOther</td>
<td>Yes</td>
</tr>
<tr>
<td>dDevice</td>
<td>Yes</td>
<td>eOutcome</td>
<td>No</td>
</tr>
<tr>
<td>dFacility</td>
<td>Yes</td>
<td>ePatient</td>
<td>No</td>
</tr>
<tr>
<td>dLocation</td>
<td>Yes</td>
<td>ePayment</td>
<td>No</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>Yes</td>
<td>eProcedures</td>
<td>No</td>
</tr>
<tr>
<td>dState</td>
<td>Yes</td>
<td>eProtocols</td>
<td>No</td>
</tr>
<tr>
<td>dVehicle</td>
<td>Yes</td>
<td>eRecord</td>
<td>No</td>
</tr>
<tr>
<td>eAirway</td>
<td>No</td>
<td>eResponse</td>
<td>No</td>
</tr>
<tr>
<td>eArrest</td>
<td>No</td>
<td>eScene</td>
<td>No</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
<td>No</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
<td>No</td>
</tr>
<tr>
<td>eCustom</td>
<td>No</td>
<td>eTimes</td>
<td>No</td>
</tr>
<tr>
<td>eDevice</td>
<td>No</td>
<td>eVitals</td>
<td>No</td>
</tr>
</tbody>
</table>
General - Fixed code numbering for sections that begin with a numeric zero

<table>
<thead>
<tr>
<th>Section</th>
<th>Old Section Number</th>
<th>New Section Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>dAgency</td>
<td>01</td>
<td>10</td>
</tr>
<tr>
<td>dContact</td>
<td>02</td>
<td>11</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>03</td>
<td>12</td>
</tr>
<tr>
<td>dLocation</td>
<td>04</td>
<td>13</td>
</tr>
<tr>
<td>dVehicle</td>
<td>05</td>
<td>14</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>06</td>
<td>15</td>
</tr>
<tr>
<td>dDevice</td>
<td>07</td>
<td>16</td>
</tr>
<tr>
<td>dFacility</td>
<td>08</td>
<td>17</td>
</tr>
<tr>
<td>dCustom</td>
<td>09</td>
<td>18</td>
</tr>
</tbody>
</table>

**eOther**

---

**eOther.FileGroup**

- Added MaxOccurs

<table>
<thead>
<tr>
<th>Old:</th>
<th>New: maxOccurs=&quot;Unbounded&quot;</th>
</tr>
</thead>
</table>

- Same as: Recurrence Change

  | Old: 1:1 | New: 0:1 |

---

**eOther.18 – Signature Graphic**

- Comment Change

  | Old: Removed comment as it did not pertain to the element (previously referenced DateTime). | New: --- |

**eOther.19 – Date/Time of Signature**

- Comment Change

  | Old: --- | New: Added commend explaining DateTime pattern. |
## XML Schema Files

<table>
<thead>
<tr>
<th>File</th>
<th>Change (Yes / No)</th>
<th>File</th>
<th>Change (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
<td>Yes</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>No</td>
<td>eDisposition</td>
<td>No</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
<td>Yes</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eHistory</td>
<td>No</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
<td>No</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
<td>No</td>
</tr>
<tr>
<td>dAgency</td>
<td>No</td>
<td>eMedDevice</td>
<td>No</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>No</td>
<td>eMedications</td>
<td>Yes</td>
</tr>
<tr>
<td>dContact</td>
<td>Yes</td>
<td>eNarrative</td>
<td>No</td>
</tr>
<tr>
<td>dCustom</td>
<td>Yes</td>
<td>eOther</td>
<td>Yes</td>
</tr>
<tr>
<td>dDevice</td>
<td>No</td>
<td>eOutcome</td>
<td>No</td>
</tr>
<tr>
<td>dFacility</td>
<td>No</td>
<td>ePatient</td>
<td>No</td>
</tr>
<tr>
<td>dLocation</td>
<td>No</td>
<td>ePayment</td>
<td>Yes</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>Yes</td>
<td>eProcedures</td>
<td>No</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
<td>No</td>
</tr>
<tr>
<td>dVehicle</td>
<td>Yes</td>
<td>eRecord</td>
<td>No</td>
</tr>
<tr>
<td>eAirway</td>
<td>Yes</td>
<td>eResponse</td>
<td>Yes</td>
</tr>
<tr>
<td>eArrest</td>
<td>Yes</td>
<td>eScene</td>
<td>No</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
<td>Yes</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
<td>No</td>
</tr>
<tr>
<td>eCustom</td>
<td>Yes</td>
<td>eTimes</td>
<td>No</td>
</tr>
<tr>
<td>eDevice</td>
<td>Yes</td>
<td>eVitals</td>
<td>Yes</td>
</tr>
</tbody>
</table>
commonTypes

DateTimeType

- Changed minInclusive
  Old: 1950-01-01T00:00:00
  New: 1950-01-01T00:00:00-00:00

- Changed maxInclusive
  Old: 2050-01-01T00:00:00
  New: 2050-01-01T00:00:00-00:00

General - Fixed code numbering

There were data elements that shared the same codes for different value descriptions within an existing enumerated list (e.g. dPersonnel.31 Code 301001 used twice for value description “Full Time Paid Employee” and “Part Time Paid Employee”). Similarly some codes were used for more than one element with differing value description (e.g. Code 2301003 was used for different value descriptions for eDispatch.01 “Allergic Reaction/Stings” and eDispatch.02 “Yes, With Pre-Arrival Instructions”).

This issue has been resolved for each element based on the general coding information provided below.

dContact.01 – Agency Contact Type
  Old: 0301001... 0301015
  New: 0201001... 0201017

dContact.13 – Agency Medical Director
  Old: 0313001, 0313003
  New: 0213001, 0213003

dContact.14 – Agency Medical Director Board Certification Type
  There were no errors in this list; however the dContact XSD / Section is identified by the initial two digits of the 7-digit code. The numbering convention for all dContact elements now begins with “02”.
  Old: 0314001... 0314043
  New: 0214001... 0201043

dContact.15 – Medical Director Compensation
  Old: 0315003, 0315003
  New: 0215001, 0215003

dPersonnel.31 – EMS Personnel’s Employment Status
  Old: 0631001... 0631005
  New: 0631001... 0631007

dPersonnel.34 – EMS Personnel’s Primary EMS Job Role
  Old: 0634001... 0634015
  New: 0631001... 0634017

eDispatch.01 – Compliant Reported by Dispatch
  Old: 2301001... 2301077
  New: 2301001... 2301075
eDispatch.02 – EMD Performed
  Old: 2301001... 2301007
  New: 2302001... 2302007

eArrest.11 – First Monitored Arrest Rhythm of the Patient
  Old: 3009001... 3009013
  New: 3011001... 3011013

eArrest.12 – Any Return of Spontaneous Circulation
  Old: 3009001... 3009007
  New: 3012001... 3012007

eExam.05 – Head Assessment
  Old: 3505033... 3505041
  New: 3505033... 3505043

dCustomConfiguration & eCustomConfiguration
  dCustomConfiguration.02 – Custom Definition & eCustomConfiguration.02 – Custom Definition
  - Constraint Change
    Old: Code List
    New: String with minLength=0 and maxLength=255

dPersonnel
  dPersonnel.20 –
  - Removed Attributes: NV, Nil

  dPersonnel.21 - EMS Personnel’s Agency ID Number
  - Removed Attributes: NV, Nil
  - Usage Change
    Old: Required
    New: Optional

  dPersonnel.22 – EMS Personnel’s State of Licensure
  – State Element Change
    Old: No
    New: Yes

  dPersonnel.28 – National Registry Credentialed
  – National Element Change
    Old: Yes
    New: No
  – State Element Change
    Old: Yes
    New: No
dPersonnel.29 – National Registry Certification Level
   – National Element Change
     Old: Yes
     New: No
   – State Element Change
     Old: Yes
     New: No

dPersonnel.30 – National Registry Certification Date
   – National Element Change
     Old: Yes
     New: No
   – State Element Change
     Old: Yes
     New: No

dPersonnel.38 – EMS Professional's Practice Level
   – Constraints Change
     Old: Data Type: Date
     New: Code List: Enumerated List, using the CommonType “StateCertificationLicensureLevels”

dVehicle

dVehicle.03 – EMS Unit Call Sign
   – National Element Change
     Old: Yes
     New: No
   – State Element Change
     Old: Yes
     New: No

eAirway

eAirway.05 – Tube Depth
   – National Element Change
     Old: Yes
     New: No
   – State Element Change
     Old: Yes
     New: No
-Removed Attribute: Nil

eAirway.07 – Crew Member ID
-Added Attribute: Nil
eArrest
eArrest.18 – End of EMS Cardiac Arrest Event
-Added Attribute: NV & Nil

eCustom
eCustomConfiguration.03 – Custom Data Type
– National Element Change
  Old: Yes
  New: No
– State Element Change
  Old: Yes
  New: No

eDevice
eDevice.07 – ECG Lead
– Usage Change
  Old: Required
  New: Optional
-Removed Attribute: NV

eDevice.08 – ECG Interpretation
– Usage Change
  Old: Required
  New: Optional

eDispatch
eDispatch.04 - Computer Aided Dispatch (CAD) Name or ID
– Data Element Comment Change
  Old: This element can be used to identify the dispatch center (Primary or Secondary Service Answering Point - PSAP) that dispatches the EMS agency.
  New: This element can be used to identify the dispatch center (Primary or Secondary Public Safety Answering Point - PSAP) that dispatches the EMS agency.

eMedications
eMedications.02 – Medication Administered Prior to this Units EMS Care
– National Element Change
  Old: No
  New: Yes
-Added Attribute: Nil

eOther
eOther.02 – Potential System of Care/Specialty/Registry Patient
-Removed Attribute: NV & Nil
eOther.05 – Natural, Suspected, Intentional, or Unintentional Disaster
- Removed Attribute: Nil

eOther.07 – Suspected EMS Work Related Exposure, Injury, or Death
- Added Attribute: Nil

eOther.08 – Crew Member Completing this Report
- Added Attribute: Nil

ePayment
  ePayment.51 – EMS Condition Code
- Removed Attributes: NV and Nil

eResponse
  eResponse.13 – EMS Vehicle (Unit) Number
- Removed Attribute: NV

eSituation
  eSituation.02 – Possible Injury
- Added Attribute: Nil

eVitals
  eVitals.20 - Glasgow Coma Score-Verbal
  – Enumerated list update
    Code: 4
    Old Description: Arterial Line Confused (>2 Years); Cries but is consolable, inappropriate interactions
    New Description: Confused (>2 Years); Cries but is consolable, inappropriate interactions
## XML Schema Files

<table>
<thead>
<tr>
<th>File</th>
<th>Change (Yes / No)</th>
<th>File</th>
<th>Change (Yes / No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eDispatch</td>
<td>Yes</td>
</tr>
<tr>
<td>EMSDataSet</td>
<td>No</td>
<td>eDisposition</td>
<td>Yes</td>
</tr>
<tr>
<td>censustracts</td>
<td>No</td>
<td>eExam</td>
<td>Yes</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eHistory</td>
<td>Yes</td>
</tr>
<tr>
<td>mmucc</td>
<td>No</td>
<td>eInjury</td>
<td>Yes</td>
</tr>
<tr>
<td>reference</td>
<td>No</td>
<td>eLabs</td>
<td>Yes</td>
</tr>
<tr>
<td>dAgency</td>
<td>Yes</td>
<td>eMedDevice</td>
<td>No</td>
</tr>
<tr>
<td>dConfiguration</td>
<td>Yes</td>
<td>eMedications</td>
<td>Yes</td>
</tr>
<tr>
<td>dContact</td>
<td>Yes</td>
<td>eNarrative</td>
<td>No</td>
</tr>
<tr>
<td>dCustom</td>
<td>Yes</td>
<td>eOther</td>
<td>Yes</td>
</tr>
<tr>
<td>dDevice</td>
<td>No</td>
<td>eOutcome</td>
<td>Yes</td>
</tr>
<tr>
<td>dFacility</td>
<td>Yes</td>
<td>ePatient</td>
<td>No</td>
</tr>
<tr>
<td>dLocation</td>
<td>No</td>
<td>ePayment</td>
<td>Yes</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>Yes</td>
<td>eProcedures</td>
<td>No</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
<td>No</td>
</tr>
<tr>
<td>dVehicle</td>
<td>Yes</td>
<td>eRecord</td>
<td>No</td>
</tr>
<tr>
<td>eAirway</td>
<td>Yes</td>
<td>eResponse</td>
<td>Yes</td>
</tr>
<tr>
<td>eArrest</td>
<td>Yes</td>
<td>eScene</td>
<td>Yes</td>
</tr>
<tr>
<td>eCAD</td>
<td>No</td>
<td>eSituation</td>
<td>Yes</td>
</tr>
<tr>
<td>eCrew</td>
<td>No</td>
<td>eState</td>
<td>No</td>
</tr>
<tr>
<td>eCustom</td>
<td>Yes</td>
<td>eTimes</td>
<td>Yes</td>
</tr>
<tr>
<td>eDevice</td>
<td>Yes</td>
<td>eVitals</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Formatting Changes to the Data Element Page
Addition of Attributes: General changes have been made to show elements which allow for “Attributes”. An attribute allows additional information related to the element to be documented.

Where applicable, the code for the attribute will be displayed next to the description. The types of attributes that will be seen in the NEMSIS Version 3 Data Dictionary (effective 8-1-2011) include but may not be limited to:

1. NOT Values
2. Pertinent Negatives
3. Nillable
4. Email Address Type
5. Phone Number Type
6. Street Address 2
7. Velocity Unit Type
8. Distance Unit Type
9. Current Status
10. Current Status Date
11. Correlation ID

For information related to the first three attributes please see the NEMSIS document How to Utilize NEMSIS V3 "NOT values/pertinent negatives/nillable".

commonTypes XSD
ANSICountryCode
– Definition Change
  Old: A list of valid US County ANSI Codes by State
  New: A list of valid Country ANSI Codes

ANSICountyCode
– Definition Change
  Old: A list of valid US Country ANSI Codes by State
  New: A list of valid US County ANSI Codes by State
– Data Type Change
  Old: Integer
  New: String
– Constraint Change
  Old: minInclusive=5 & maxInclusive=5
  New: length=5

ANSIStateCode
– Data Type Change
  Old: Integer
  New: String
– Constraint Change
  Old: minInclusive=2 & maxInclusive=2
  New: length=2


CityGnisCode
– Data Type Change
  Old: Integer
  New: String

NationalProviderIdentifier
– Data Type Change
  Old: Integer
  New: String
– Constraint Change
  Old: minInclusive=10 & maxInclusive=10
  New: length=10

dAgency XSD / Section
Added “Is Nillable = Yes” to the following dAgency Elements. Where “Usage = Required” NOT Values and Is Nillable will be “Yes”.

dAgency.07 – EMS Agency Census Tracts
– Is Nillable Change
  Old: No
  New: Yes

dAgency.16 – Total Primary Service Size Area
– Is Nillable Change
  Old: No
  New: Yes

dAgency.17 – Total Service Area Population
– Is Nillable Change
  Old: No
  New: Yes

dAgency.18 – 911 EMS Call Center Volume per Year
– Is Nillable Change
  Old: No
  New: Yes

dAgency.19 – EMS Dispatch Volume per Year
– Is Nillable Change
  Old: No
  New: Yes

dAgency.20 – EMS Patient Transport Volume per Year
– Is Nillable Change
  Old: No
  New: Yes
dAgency.21 – EMS Patient Contact Volume per Year
– Is Nillable Change
  Old: No
  New: Yes

dAgency.22 – EMS Billable Calls per Year
– Is Nillable Change
  Old: No
  New: Yes

dContact XSD / Section
dContact.10 – Agency Contact Phone Number
– NOT Values Change
  Old: No
  New: Yes

dConfiguration XSD / Section
dConfiguration.03 - Procedures Permitted by the State
– Data Element Comment Change
  Old:
  This data element should capture all of the procedures permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04). This is related to the EMS Agency’s procedures (dConfiguration.05) which have been implemented within the EMS System.
  New:
  This data element should capture all of the procedures permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04). This is related to the EMS Agency’s procedures (dConfiguration.07) which have been implemented within the EMS System.

State EMS systems which have regulatory authority to determine the procedures statewide may identify ICD-10 PCS procedure codes based on medical direction and their own need.

Code list is represented in ICD-10-PCS: Procedure Codes, see suggested NEMSIS list of procedure codes.
ICD-10-PCS
Product - UMLS Metathesaurus

dConfiguration.04 - Medications Permitted by the State
– Definition Change
  Old: A list of all of the medications permitted by the state to be used by EMS each state licensure level.
  New: A list of all of the medications permitted by the state to be used by each EMS state certification/licensure level.
– Is Nillable Change
  Old: Yes
  New: No
– Data Element Comment Change
  Old:
  This data element should capture all of the medications permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RXNORM (RXCUI) Code. This is associated with each of the states (dAgency.04).
  New:
  This data element should capture all of the medications permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RxNorm (RXCUI) Code. This is associated with each of the states (dAgency.04).
– V3 Changes Implemented Change
  Old:
  Added to better define state EMS capability.
  New:
  State EMS systems which have regulatory authority to identify medications to be administered within the state may identify specific RxNorm codes based on medical direction and their own need.

List of medications based on RxNorm (RXCUI) code. See suggested NEMSIS list of medication codes.

RxNorm

Product - UMLS Metathesaurus
Product - RxNorm Full Monthly Release

dConfiguration.05 - Protocols Permitted by the State
– Is Nillable Change
  Old: Yes
  New: No
– Data Element Comment Change
  Old:
  This data element should capture all of the protocols permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RXNORM (RXCUI) Code. This is associated with each of the states (dAgency.04).
  New:
  This data element should capture all of the protocols permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04).

States can customize protocols but where possible state protocols should map to these uniform codes. Additional protocols should be coded using text values or numbers between 100 and 10,000.
The list is defined by the NASEMSO State Medical Directors.

-- V3 Changes Implemented Change

**Old:**
Added to better define state EMS capability.

**New:**
Added to better identify states with statewide protocols and define state EMS capability and care.

-- Change to XSD extension base (which is the ‘name’ the XSD is referencing for the element values)

**Old:** icd10Code

**New:** ProtocolsUsed

**dConfiguration.06 - EMS Certification Levels Permitted to Perform Each Procedure**

-- Definition Change

**Old:** EMS certification levels which are permitted to perform the procedure listed in dConfiguration.06.

**New:** EMS certification levels which are permitted to perform the procedure listed in dConfiguration.07.

-- Data Element Comment Change

**Old:** Using each certification level within the agency, indicate the approved procedures allowed utilizing dConfiguration.06 (EMS Agency Procedures).

**New:** Using each certification level within the agency, indicate the approved procedures allowed utilizing dConfiguration.07 (EMS Agency Procedures).

**dConfiguration.07 - EMS Agency Procedures**

-- Data Element Comment Change

**Old:**
This is associated with the EMS Agency Number (DAgency.02) since each EMS Agency Number may have different capabilities. Each procedure is associated with the EMS professional levels permitted to perform the procedure.

**New:**
This is associated with the EMS Agency Number (DAgency.02) since each EMS Agency Number may have different capabilities. Each procedure is associated with the EMS professional certification levels permitted to perform the procedure.

EMS Agencies may identify additional ICD-10-PCS procedure codes based on medical direction and their own need. If an agency resides in a state with statewide approved procedures, they should be listed/implemented here.

Code list is represented in ICD-10-PCS: Procedure Codes, see suggested NEMSIS list of procedure codes.

ICD-10-PCS
Product - UMLS Metathesaurus

**dConfiguration.08 - EMS Certification Level Permitted to Administer Each Medication**

-- Name Change

**Old:** Personnel Level Permitted to Administer the Medication

**New:** EMS Certification Level Permitted to Administer Each Medication
– Definition Change

**Old:** All EMS certification levels which are permitted to administer the medications listed in dConfiguration.08 (EMS Agency Medications).

**New:** All EMS certification levels which are permitted to administer the medications listed in dConfiguration.09 (EMS Agency Medications).

**dConfiguration.09 - EMS Agency Medications**
– Data Element Comment Change

**Old:**
The medication list is stored as the RXNORM (RXCUI) Code. This is associated with the EMS Agency Number (dAgency.02) since each EMS Agency Number may have different capabilities.

**New:**
The medication list is stored as the RxNorm (RXCUI) Code. This is associated with the EMS Agency Number (dAgency.02) since each EMS Agency Number may have different capabilities.

List of medications based on RxNorm (RXCUI) code. See suggested NEMSIS list of medication codes.

RxNorm

Product - UMLS Metathesaurus
Product - RxNorm Full Monthly Release

**dConfiguration.10 - EMS Agency Protocols**
– Definition Change

**Old:** A list of all of the EMS field protocols that the agency has in place and available for use.

**New:** A list of all of the medical treatment protocols that the agency has in place and available for use.

**dConfiguration.16 - Crew Call Sign**
– Usage Change

**Old:** ----

**New:** Mandatory

**dConfiguration.17 – (New Element)**

**Name:** Dispatch Center (CAD) Name or ID

**Definition:** The name or ID of the dispatch center providing electronic data to the PCR for the EMS agency, if applicable.

**Data Type:** DispatchCenterCADNameorID

<table>
<thead>
<tr>
<th>National Element</th>
<th>No</th>
<th>Pertinent Negatives (PN)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Element</td>
<td>No</td>
<td>NOT Values (NV)</td>
<td>No</td>
</tr>
<tr>
<td>Version 2 Element</td>
<td></td>
<td>Is Nillable</td>
<td>No</td>
</tr>
<tr>
<td>Usage</td>
<td>Optional</td>
<td>Recurrence</td>
<td>0:1</td>
</tr>
</tbody>
</table>
Constraints:
String   min = 2   max = 100

Data Element Comment: This element can be used to identify the dispatch center (Primary or Secondary Service Answering Point - PSAP) that dispatches the EMS agency. If the EMS agency is able to populate the Patient Care Report (PCR) with CAD specific details (times, incident address information, crew information, EMD, etc) the name or ID of the dispatch center should be documented.

Version 3 Changes Implemented: Added to the dataset to assist in identifying the CAD / dispatch center providing information to the EMS agency and ePCR when there are multiple dispatch centers sending resources to the same EMS incident.

dCustom XSD / Section
Removed “EMS” from “Name” and “Definition”
Changed all “dCustomResult” to “dCustomResults”

dFacility XSD / Section
All dFacility elements have a Usage of “Optional” and neither NOT Values or nillable can be used. With the exception of dFacility.01 Type of Facility, the elements should have a Recurrence of 0:1.

- dFacility.01 - Type of Facility
  – Usage Change
  Old: Required
  New: Optional
  – NOT Values Change
  Old: Yes
  New: No
  – Is Nillable Change
  Old: Yes
  New: No

- dFacility.02 - Facility Name
  – NOT Values Change
  Old: Yes
  New: No
  – Is Nillable Change
  Old: Yes
  New: No

- dFacility.03 - Facility Location Code
  – Is Nillable Change
  Old: Yes
  New: No
  – Recurrence Change

  - Recurrence Change
Old: 1:1
New: 0:1

dFacility.04 - Hospital Designation
– NOT Values Change
  Old: Yes
  New: No
– Is Nillable Change
  Old: Yes
  New: No
– Recurrence Change
  Old: 1:1
  New: 0:1

dFacility.02 - Facility National Provider Identifier
– NOT Values Change
  Old: Yes
  New: No
– Is Nillable Change
  Old: Yes
  New: No

dFacility.10 - Facility State
– NOT Values Change
  Old: Yes
  New: No
– Is Nillable Change
  Old: Yes
  New: No
– Recurrence Change
  Old: 1:1
  New: 0:1

dFacility.11 - Facility ZIP Code
– NOT Values Change
  Old: Yes
  New: No
– Is Nillable Change
  Old: Yes
  New: No
– Recurrence Change
  Old: 1:1
  New: 0:1

dFacility.11 - Facility County
– NOT Values Change
  Old: Yes
  New: No
– Is Nillable Change
  **Old:** Yes  
  **New:** No
– Recurrence Change
  **Old:** 1:1  
  **New:** 0:1

**dPersonnel XSD / Section**

**Removed Elements**
  - dPersonnel.PersonnelPhoneNumberGroup
  - dPersonnel.10 (EMS Personnel's Phone Number Type)

**Renamed Elements** - dPersonnel.11 through dPersonnel.40
– Each element shifted down one in numbering because of the removal of dPersonnel.10 EMS Personnel’s Phone Number Type
  **Old:** dPersonnel.11  
  **New:** dPersonnel.10
  **Old:** dPersonnel.12  
  **New:** dPersonnel.11
  ...through
  **Old:** dPersonnel.40  
  **New:** dPersonnel.39

**dPersonnel.09 - EMS Personnel's Phone Number**
– Added “PhoneNumberType” Attribute
  The phone type attributes choices are: Fax, Home, Mobile, Pager, and Work.

**dPersonnel.24 - EMS Personnel's State EMS Certification Licensure Level**
– National Element Change
  **Old:** Yes  
  **New:** No

**dVehicle XSD / Section**

**dVehicle.03 - EMS Unit Call Sign**
– Usage Change
  **Old:** Required  
  **New:** Optional

**dVehicle.13 - Annual Vehicle Miles/Kilometers**
– Name Change
  **Old:** Annual Vehicle Miles.Kilometers  
  **New:** Annual Vehicle Miles/Kilometers

**eAirway XSD / Section**

**eAirway.02 - Date/Time Airway Device Placement Confirmation**
– Added DateTime pattern comments
eAirway.10 - Date/Time Decision to Manage the Patient with an Invasive Airway
– Added DateTime pattern comments

eAirway.11 - Date/Time Invasive Airway Placement Attempts Abandoned
– Added DateTime pattern comments

eArrest XSD / Section
eArrest.04 - Arrest Witnessed By
– Name Change
  Old: Arrest Witnessed by
  New: Arrest Witnessed By

eCustom XSD / Section
General Change:
  Removed “EMS” from “Name” and “Definition”
  Changed “eCustomResult” to “eCustomResults”

eDevice XSD / Section
eDevice.02 - Date/Time of Event
– Added DateTime pattern comments

eDispatch XSD / Section
eDispatch.04 – (New Element)
  Name: Computer Aided Dispatch (CAD) Name or ID
  Definition: The name or ID of the dispatch center providing electronic data to the PCR for the
  EMS agency, if applicable.
  Data Type: ComputerAidedDispatchCADNameorID

<table>
<thead>
<tr>
<th>National Element</th>
<th>No</th>
<th>Pertinent Negatives (PN)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Element</td>
<td>No</td>
<td>NOT Values (NV)</td>
<td>No</td>
</tr>
<tr>
<td>Version 2 Element</td>
<td></td>
<td>Is Nillable</td>
<td>No</td>
</tr>
<tr>
<td>Usage</td>
<td>Optional</td>
<td>Recurrence</td>
<td>0:1</td>
</tr>
</tbody>
</table>

Constraints:
String  min = 2    max = 100

Data Element Comment:  This element can be used to identify the dispatch center (Primary or
Secondary Service Answering Point - PSAP) that dispatches the EMS agency.  If the EMS agency
is able to populate the Patient Care Report (PCR) with CAD specific details (times, incident
address information, crew information, EMD, etc) the name or ID of the dispatch center should be documented.
Version 3 Changes Implemented: Added to the dataset to assist in identifying the CAD / dispatch center providing information to the EMS agency and ePCR when there are multiple dispatch centers sending resources to the same EMS incident.

**eDisposition XSD / Section**
**eDisposition.25 - Date/Time of Destination Prearrival Activation**
– Added DateTime pattern comments

**eExam XSD / Section**
**eExam.03 - Date/Time of Assessment**
– Added DateTime pattern comments

**eHistory XSD / Section**
**eHistory.10 - The Patient’s Type of Immunization**
– Name Change
  \*Old:* The patient's type of immunization.
  \*New:* The Patient's Type of Immunization

**eHistory.19 - Last Oral Intake**
– Added DateTime pattern comments

**eInjury XSD / Section**
**eInjury.05 - Main Area of the Vehicle Impacted by the Collision**
– Name Change
  \*Old:* Main Area of the Vehicle impacted by the collision
  \*New:* Main Area of the Vehicle Impacted by the Collision

**eInjury.14 - Date/Time of ACN Incident**
– Added DateTime pattern comments

**eLabs XSD / Section**
**eLabs.01 - Date/Time of Laboratory or Imaging Result**
– Added DateTime pattern comments

**eMedications XSD / Section**
**eMedications.01 - Date/Time Medication Administered**
– Added DateTime pattern comments

**eMedications.05 - Medication Dosage**
– Is Nillable Change
  \*Old:* Yes
  \*New:* No
eMedications.06 - Medication Dosage Units
– Is Nillable Change
  Old: Yes
  New: No

ePayment XSD / Section
ePayment.04 - Reason for Physician Certification Statement
– Enumerated list update
  Code: 2604035
  Old Description: Unable to maintain erect sitting position in a chair for time needed to transport, due to moderate
  New Description: Unable to maintain erect sitting position in a chair for time needed to transport, due to moderate muscular weakness and de-conditioning.

  Code: 2604037
  Old Description: Unable to sit in chair or wheelchair due to grade II or greater decubitus ulcers on buttocks
  New Description: Unable to sit in chair or wheelchair due to Grade II or greater decubitus ulcers on buttocks.

ePayment.39 - Patient’s Employer’s Primary Phone Number
– Name Change
  Old: Patient’s Phone Number
  New: Patient’s Employer’s Primary Phone Number
– Definition Change
  Old: The patient’s phone number
  New: The employer’s primary phone number

eResponse XSD / Section
eResponse.09 - Type of Response Delay
– Definition Change
  Old: The response delays, if any, associated with the UNIT of the EMS unit to the patient encounter
  New: The response delays, if any, of the EMS unit associated with the patient encounter.

eResponse.10 - Type of Scene Delay
– Definition Change
  Old: The scene delays, if any, of the unit associated with the patient encounter.
  New: The scene delays, if any, of the EMS unit associated with the patient encounter

eResponse.11 - Type of Transport Delay
– Definition Change
  Old: The transport delays, if any, of the unit associated with the patient encounter.
  New: The transport delays, if any, of the EMS unit associated with the patient encounter
eResponse.14 - EMS Unit Call Sign
– Usage Change
  Old: Required
  New: Mandatory

eOther XSD / Section
eOther.05 - Natural, Suspected, Intentional, or Unintentional Disaster
– Name Change
  Old: Natural, Suspected, Intentional, or Unintentional Disaster
  New: Natural, suspected intentional or unintentional disaster

eOther.18
– Added DateTime pattern comments

eOutcome XSD / Section
eOutcome.11 - Date/Time of Hospital Admission
– Added DateTime pattern comments

ePayment XSD / Section
ePayment.03 - Date Physician Certification Statement Signed
– Added DateTime pattern comments

ePayment.06 (First Name) and ePayment.07 (Last Name) swapped
  Old:
  ePayment.06 - First Name of Individual Signing Physician Certification Statement
  ePayment.07 - Last Name of Individual Signing Physician Certification Statement
  New:
  ePayment.06 - Last Name of Individual Signing Physician Certification Statement
  ePayment.07 - First Name of Individual Signing Physician Certification Statement

eProcedures XSD / Section
eProcedures.01 - Date/Time Procedure Performed
– Added DateTime pattern comments

eScene XSD / Section
eScene.05 - Date/Time Initial Responder Arrived on Scene
– Added DateTime pattern comments

eSituation XSD / Section
New Data Type
– Associated Symptom
  Base: String
  Pattern: R[0-6][0-9]\d{0,4}|R73.9
eSituation.01 - Date/Time of Symptom Onset/Last Normal
– Added DateTime pattern comments

eSituation.09 - Primary Symptom
– Data Type Change
  Old: PrimarySymptom
  New: AssociatedSymptoms

eSituation.10 - Other Associated Symptoms
– Data Type Change
  Old: OtherAssociatedSymptoms
  New: AssociatedSymptoms

eSituation.11 - Provider’s Primary Impression
– Name Change
  Old: Providers Primary Impression
  New: Provider’s Primary Impression

eTimes XSD / Section
All eTimes elements
– Added DateTime pattern comments

eVitals XSD / Section
eVitals.01 - Date/Time Vital Signs Taken
– Added DateTime pattern comments

eVitals.30 - Stroke Scale Type
– Enumerated list update
  Code: 3330011
  Old Description: Other (Not Listed)
  New Description: Other Stoke Scale Type