Overview

This change log, dated **March 21 2012**, characterizes revisions made since the **January 20, 2012** NEMSIS Version 3.2.1 Release.

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

XML Schemas Removed
- censustracts.xsd
- mmucc.xsd
- reference.xsd

ICD10 Pattern Modified
Old: [0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
New: [A-Z][0-9][2]\([0-9A-Z][3]\)
Affected Elements: ePayment.51, eOutcome.09, eOutcome.10, eOutcome.12, eOutcome.13

CommonTypes XSD
Simple Type “CensusTracts”
Added From censustracts.xsd

Simple Type “GPSLocation”
Pattern Change
Old: \(\{[\+\-]?(\{9\}\([1-8]\[0-9\]-[9-9]\[90]\).\d[0-9]\}\),\{[\+\-]?(\{1\}\([0-7]\[0-9\]-[9-9]\[90]\).\d[0-6]\}\)
New: \(\{[\+\-]?(\{9\}\([1-8]\[0-9\]-[9-9]\[90]\).\d[0-9]\}\),\{[\+\-]?(\{1\}\([0-7]\[0-9\]-[9-9]\[90]\).\d[0-6]\}\)
Affected Elements: dFacility.13, dLocation.04, eCad.23, eCad.80, eCad.101, eDisposition.09, eInjury.15, eResponse.17, eScene.11

Simple Type “GraphicType”
Restriction Change
Old: String literal
minLength=1
maxLength=255
New: String literal
minLength=1
maxLength=255
Affected Elements: eDevice.04, eLabs.07, eMedDevice.41, eMedDevice.46, eOther.10, eOther.17

Simple Type “ICD10”
Pattern Change
Old: [0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
New: [A-Z][0-9][2]\([0-9A-Z][1,3]\)
Affected Elements: eOutcome.09, eOutcome.10, eOutcome.12, eOutcome.13, ePayment.51

Simple Type “ICD10CodeInjury”
Pattern Change
Old: \((T((65\.(\{9\}[0-4]\[0-9\]))\(9\[0-4]\)(9\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))\(3\(6-9\).\d[0-9]\),\{9\}[0-9]\),\(2\)\))

Affected Elements: eOutcome.09, eOutcome.10, eOutcome.12, eOutcome.13, ePayment.51
New: ([TV-Y][0-9][2])((\.[0-9A-Z]{1,7}?))
Affected Elements: elnjury.01, eOutcome.08

Simple Type “Icd10MedSurge”
Pattern Change
Old: ((([[A-QS][0-9][2]])|T(((0-2)[0-9])|3[0-4]))|\.[0-9-9][1,3]?)|T((79)|8[067])|\.[1,3]?)|T88(|((0)|1)|4)|6)|7)|Z((7[7-9])|8[0-9-7]|89)|9[0-9-9]|\.[0-9-9][1,3]?)|((T73)|Z((5[5-9])|6[0-5])|7[2-4])|\.[0-9-9]?)|((T((6[6-9])|7[0-8]))|\.[0-9-9][1,2]?)
New: ([A-QSZ][0-9][2])((\.[0-9A-Z]{1,3}?))
Affected Elements: eHistory.08

**dAgency**
Remove reference to censustracts.xsd

**dAgency.02 - EMS Agency Number**
Comment Change
Old: This is the primary identifier for the entire Demographic Section. Each of the Demographic sections must be associated with an EMS Agency Number. An EMS Agency can have more than one Agency Number within a state. This reflects the ability for an EMS Agency to have a different number for each service type or location (based on state implementation).
New: This is the primary identifier for the entire Demographic Section. Each of the Demographic sections must be associated with an EMS Agency Number. An EMS Agency can have more than one Agency Number within a state. This reflects the ability for an EMS Agency to have a different number for each service type or location (based on state implementation). The EMS Agency Number in dAgency.02 can be used to auto-populate eResponse.01 EMS Agency Number in the EMS Event section.

**dConfiguration**
Simple Type “CallSignRole” Removed

**dContact**
**dContact.EMSMedicalDirectorGroup**
Moved under "dContact.ContactInfoGroup"
“maxOccurs” Constraint Change
Old: M
New: 1
DEMDataset
Attribute “timeStamp”
Data Type Change
   Old: xs:date
   New: DateTimeType"

dVehicle
dVehicle.06 – Number of Each EMS Personnel Level on Normal 911 Ambulance Response
Comment Change
   Old: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.04 (Crew State Certification/Licensure Levels).
   New: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.05 (Crew State Certification/Licensure Levels).

dVehicle.07 – Number of Each EMS Personnel Level on Normal 911 Response (Non-Transport) Vehicle
Comment Change
   Old: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.04 (Crew State Certification/Licensure Levels).
   New: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.05 (Crew State Certification/Licensure Levels).

dVehicle.08 - Number of Each EMS Personnel Level on Normal Medical (Non-911) Transport Ambulance
Comment Change
   Old: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.04 (Crew State Certification/Licensure Levels).
   New: Indicate the number of each of the following EMS Personnel levels on the crew. Associated with each Certification/Licensure Level in dVehicle.05 (Crew State Certification/Licensure Levels).

eArrest
eArrest.08 - Who Used AED Prior to EMS Arrival
Definition Change
   Old: Documentation of who performed CPR prior to this EMS unit’s arrival.
   New: Documentation of who used the AED prior to this EMS unit’s arrival
eDevice

eDevice.04 - Medical Device Waveform Graphic Type

Definition Change

Old: The type of waveform file stored in Waveform Graphic
New: The description of the waveform file stored in Waveform Graphic (eDevice.05).

Comment Change

Old:
New: The description is defined as the extension of the file type.
Examples of file name extensions include “doc”, “jpeg”, “tiff”, etc. For a list of additional extensions reference the following website(s):

- Audio formats: [http://www.fileinfo.com/filetypes/audio](http://www.fileinfo.com/filetypes/audio)

Simple Type "AEDPacingOrCO2Mode"

Data Type Change
**Old**: Integer  
**New**: String

### eDispatch

**Simple Type "DispatchPriority"**  
Definition Added  
**New**: The actual, apparent, or potential acuity of the patient’s condition as determined through information obtained during the EMD process.

### eDisposition

- **eDisposition.06 - Destination County**  
  NOT Value "NV.NotReporting" Removed

- **Simple Type "DestinationPrearrivalActivation"**  
  Definition Added  
  **New**: Activation of the Destination Healthcare Facility Team prior to EMS arrival for acute ill or injured patient.

- **Simple Type "IncidentPatientDisposition"**  
  Code 4212013 Definition Change  
  **Old**: Patient Dead at Scene-No EMS Transport  
  **New**: Patient Dead at Scene-No Resuscitation Attempted

  Code 4212019 Definition Change  
  **Old**: Patient Dead at Scene-Transported by EMS  
  **New**: Patient Dead at Scene-Resuscitation Attempted

  Choices Added to Enumerated List  
  **New**: Patient Dead at Scene-No Resuscitation Attempted (With Transport)  
  **New**: Patient Dead at Scene-No Resuscitation Attempted (Without Transport)  
  **New**: Patient Dead at Scene-Resuscitation Attempted (With Transport)  
  **New**: Patient Dead at Scene-Resuscitation Attempted (Without Transport)

  Codes Values Shifted

### eExam

- **eExam.AssessmentGroup**  
  ID Change  
  **Old**: eExam.GroupAssessment  
  **New**: eExam.AssessmentGroup

- **eExam. AbdomenGroup**  
  ID Change  
  **Old**: eExam.AssessmentAbdomen
New: eExam.AbdomenGroup

eExam.04 – Skin Assessment
Code 3504029 Description Change
Old: Red (Erythematous)
New: Red (Erythematous)

eExam.SpineGroup
ID Change
Old: eExam.AssessmentSpine
New: eExam.SpineGroup

eExam.ExtremityGroup
ID Change
Old: eExam.AssessmentExtremities
New: eExam.ExtremityGroup

eExam.EyeGroup
ID Change
Old: eExam.AssessmentEye
New: eExam.EyeGroup

eHistory
Simple Type "EnvironmentalFoodAllergies" Removed

eHistory.06 - Medication Allergies
Attribute “CodeType” Usage Change
Old: Required
New: Optional

eHistory.07 – Environmental/Food Allergies
Data Type Change
Old: EnvironmentalFoodAllergies
New: snomed

New Comment
Code list is represented in SNOMEDCT. Reference the NEMSIS Suggested Lists at:
http://nemsis.org/v3/resources.html

SNOMEDCT
Website: http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html
Product: Product - UMLS Metathesaurus

eHistory.10 – The Patient’s Type of Immunization.
Name Change
Old: The Patient's Type of Immunization
New: The Patient's Type of Immunization.

Definition Change
Old:
New: The immunization type of the patient.

**eHistory.18 – Pregnancy**
Choice Added To Enumerated List
3118011 – Yes, Weeks Unknown

**eInjury**
**eInjury.22 - ACN Incident Delta Velocity**
Attribute Added
- **Name:** DeltaVelocityOrdinal
- **Type:** DeltaVelocityOrdinalRanking
- **Use:** optional

**Simple Type Added**
- **Name:** DeltaVelocityOrdinalRanking
  - **Documentation:** The Automated Collision Notification Delta Velocity (Delta V) force ordinal value. 1 equals first impact, 2 equals second, etc.
  - **Restriction:**
    - `base`: xs:integer
    - `minInclusive`: 1

**eLabs**
**eLabs.02 – Study/Result Prior to this Units EMS Care**
Name Change
- **Old:** Study/Result Prior to this Units EMS Care
- **New:** Study/Result Prior to this Unit's EMS Care

**eLabs.LabResultGroup**
ID Change
- **Old:** eLabs.LabValue
- **New:** eLabs.LabResultGroup

**eLabs.07 – Imaging Study File or Waveform Graphic Type**
Definition Change
- **Old:** The type of file or waveform the imaging file is stored in.
- **New:** The description of the image study file or waveform graphic stored in Imaging Study File or Waveform Graphic (eLabs.08).

Comment Change
- **Old:** Added to better document patient care. Added to allow the type of imaging file uploaded to be identified.
**New:** The description is defined as the extension of the file type. Examples of file name extensions include “doc”, “jpeg”, “tiff”, etc. For a list of additional extensions reference the following website(s):

```html
<br/>
<tr>
<td style="color:blue">http://www.fileinfo.com/filetypes/3d_image</td>
</tr>
<tr>
<td style="color:blue">http://www.fileinfo.com/filetypes/raster_image</td>
</tr>
<tr>
<td style="color:blue">http://www.fileinfo.com/filetypes/vector_image</td>
</tr>
<tr>
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<td style="color:blue">http://en.wikipedia.org/wiki/Audio_file_format</td>
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<tr>
<td style="color:blue">http://en.wikipedia.org/wiki/Internet_media_type</td>
</tr>
```

**eMedDevice**

Remove reference to eCustom_v3.xsd

**eMedDevice.26 – (eVitals.09) Mean Arterial Pressure**

Moved from Group “eMedDevice.HeartRateGroup” to “eMedDevice.BloodPressureGroup”


Added “eCustomConfiguration” before “eMedDevice” section

Added “eCustomResults” after “eMedDevice” section
Group Recurrence Change
“maxOccurs” Constraint Change

Old: 1
New: M

eMedDevice.WaveFormGraphicGroup
Moved from "eMedDevice.LabsGroup" to "eMedDevice.LabImageGroup"

eMedDevice.DeviceGroup
Moved from "eMedDevice.LabsGroup" to "eMedDevice" Section

eMedDevice.18 – (ePatient.17) Date of Birth
Moved from "eMedDevice.PatientAgeGroup" to "eMedDevice" Section

eMedications
eMedications.02 – Medication Administered Prior to this Units EMS Care
Name Change
Old: Medication Administered Prior to this Units EMS Care
New: Medication Administered Prior to this Unit’s EMS Care

Removed the NOT Value "NV.NotReporting"

EMSDataset
Attribute "RecordStatus" Removed

eOther
eOther.10 - File Attachment Type
Definition Change
Old: The type of file (pdf, jpeg, etc.) that is attached electronically to the patient care report.
New: The description of the file attachment stored in File Attachment Image (eOther.11).

Comment Change
Old: Provides a mechanism for external records to be associated with the PCR.
New: The description is defined as the extension of the file type.
Examples of file name extensions include “doc”, “jpeg”, “tiff”, etc. For a list of additional extensions reference the following website(s):

&lt;br/&gt;
&lt;table&gt;&lt;tr&gt;&lt;td width="10px">&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/table&gt;
&lt;tr&gt;&lt;td&gt;3D Image formats: &lt;span style="color:blue">http://www.fileinfo.com/filetypes/3d_image&lt;/span&gt;&lt;/td&gt;&lt;/tr&gt;
eOther.17 - Signature File Type

**Definition Change**

**Old:** The type of graphic file for the signature.

**New:** The description of the file attachment stored in Signature Graphic (eOther.18).

“PerformanceMeasure” Removed

**Comment Added**

**Old:**

**New:** The description is defined as the extension of the file type.

Examples of file name extensions include “doc”, “jpeg”, “tiff”, etc. For a list of additional extensions reference the following website(s):

- [http://www.fileinfo.com/filetypes/raster_image](http://www.fileinfo.com/filetypes/raster_image)
- [http://www.fileinfo.com/filetypes/vector_image](http://www.fileinfo.com/filetypes/vector_image)
- [http://www.fileinfo.com/filetypes/audio](http://www.fileinfo.com/filetypes/audio)

Audio formats: [http://www.fileinfo.com/filetypes/audio](http://www.fileinfo.com/filetypes/audio)


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**ePatient**

censustracts.xsd Reference Removed

**ePayment**

ePayment.31 - Closest Relative/ Guardian Phone Number
Attribute "CorrelationID" use changed to "optional"

ePayment.50 - CMS Service Level
NOT Value "NV.NotReporting" removed

**SimpleType "ConditionCodeNumber" Removed**

**eProcedures**

eProcedure.02 – Procedure Performed Prior to this Units EMS Care
Name Change

Old: Procedure Performed Prior to this Units EMS Care
New: Procedure Performed Prior to this Unit's EMS Care

**eScene**
censustracts.xsd Reference Removed

eScene.15 - Incident Street Address
Comment Removed

eSituation

**eSituation.05 - Duration of Complaint**
Definition Change:
- **Old:** The duration of the chief complaint
- **New:** The duration of the complaint

Comment Change
- **Old:** Associated with Time Unit of Duration
- **New:** Associated with eSituation.06 (Time Units of Duration of the Complaint).

**eSituation.06 - Time Units of Duration of Complaint**
Definition Change:
- **Old:** The time units of the duration of the patient's chief complaint
- **New:** The time units of the duration of the patient's complaint

Comment Change
- **Old:** Associated with Duration of the Complaint
- **New:** Associated with eSituation.05 (Duration of the Complaint).

eSituation.WorkRelatedGroup

ID Change
- **Old:** eSituation.GroupWorkRelatedInjury
- **New:** eSituation.WorkRelatedGroup

eSituation.17 - Patient Activity
Moved out of "eSituation.WorkRelatedGroup" group

**SimpleType "Complaint"**
"MinLength" Restriction Change
- **Old:** 2
- **New:** 1

"MaxLength" Restriction Change
- **Old:** 50
- **New:** 255

**Simple Type "AssociatedSymptoms"**
Pattern Fix
- **Old:** R[0-6][0-9]\.[0-9]{0,4})?|R73.9|R99
- **New:** R[0-6][0-9]\.[0-9]{1,4})?|(R73\.|R99)
Simple Type "ProvidersImpression"

Pattern Change

Old: (((T73)|(Z((5[5-9])|(6[0-5])|(7[2-4])))\([,0-9]{1}\)?))|((T((6[6-9])|(7[0-8]))))\([,0-9]{1}\)?)|(((A-QS][0-9]{2})|(T{[0-2][0-9]-}[3][0-4]))\([,0-9]{1}\)?)|Z77\([,0-9]{1}\)?)|((T((79)|[8[067]])\([,1,3]\)?))|T88\([,0](1)|[4]|(6)|[7]?)

New: ([A-QSTZ][0-9]{2})\([,0-9A-Z][1,4]\)"

eVitals

eVitals.02 - Obtained Prior to this Units EMS Care

Name Change

Old: Obtained Prior to this Units EMS Care

New: Obtained Prior to this Unit's EMS Care

eVitals.09 - Mean Arterial Pressure

Moved from "eVitals.HeartRateGroup" to "eVitals.BloodPressureGroup"

Simple Type "BodyTemperature"

"maxInclusive" Restriction Change

Old: 50.0

New: 50

Simple Type "MAP"

"minExclusive" Constraint Removed

"minInclusive" Constraint Added

New: minInclusive = 1