Introduction / Overview
March 2, 2015

This change log represents revision changes made to the NEMSIS Version 3 standard based on the NEMSIS TAC Annual Revision Policy. Suggested changes to the Version 3 standard were provided by EMS stakeholders, reviewed by various stakeholders, and implemented when feasible.

Revisions made with the NEMSIS Version 3.4.0 include new elements, new SimpleTypes, updates to element names, definitions, comments, and constraints. Constraint changes included decreasing or increasing the minimum or maximum value an element allows. Some changes were implemented to meet billing needs based on existing standards. Patterns were modified for elements using ICD-10 code sets. Element values, otherwise identified in the change log as enumeration code/description changes, were removed or added. Some descriptions were modified slightly but maintain the same meaning.

Deprecated elements from previous versions of the NEMSIS Version 3 standard have been removed.

The NEMSIS Version 3.4.0 release is a major release; therefore elements and values identified for removal are not deprecated in this release but removed completely from the standard.
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<td>CAD</td>
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<td>MED Device</td>
<td>75</td>
</tr>
</tbody>
</table>
## XSD Files Impacted

NEMSIS Version 3.4.0 XSD files with changes.

<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>eDisposition</td>
<td>Yes</td>
</tr>
<tr>
<td>DEMDataSet</td>
<td>No</td>
<td>eExam</td>
<td>Yes</td>
</tr>
<tr>
<td>EMDataSet</td>
<td>No</td>
<td>eHistory</td>
<td>Yes</td>
</tr>
<tr>
<td>MedDeviceDataSet</td>
<td>Yes</td>
<td>eInjury</td>
<td>Yes</td>
</tr>
<tr>
<td>commonTypes</td>
<td>Yes</td>
<td>eLabs</td>
<td>No</td>
</tr>
<tr>
<td>dAgency</td>
<td>Yes</td>
<td>eMedDevice</td>
<td>Yes</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>Yes</td>
</tr>
<tr>
<td>dLocation</td>
<td>Yes</td>
<td>ePayment</td>
<td>Yes</td>
</tr>
<tr>
<td>dPersonnel</td>
<td>Yes</td>
<td>eProcedures</td>
<td>Yes</td>
</tr>
<tr>
<td>dState</td>
<td>No</td>
<td>eProtocols</td>
<td>Yes</td>
</tr>
<tr>
<td>dVehicle</td>
<td>No</td>
<td>eRecord</td>
<td>Yes</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>Yes</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>
<tr>
<td>eDispatch</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
General

CENSUS Tract Information

URL Updates

Old: Census Tract Data Website (files and descriptions):
http://www.census.gov/geo/www/2010census/tract_rel/tract_rel.html

New: Census Tract Data Website (files and descriptions):
http://www.census.gov/geo/maps-data/data/tract_rel_download.html

Elements Affected (5)
DEM DataSet (1) and EMS DataSet (2):
dAgency.07 - EMS Agency Census Tracts
ePatient.11 - Patient Home Census Tract
eScene.23 - Incident Census Tract

CAD DataSet elements (2)
eCad.62 - (ePatient.11) Patient Home Census Tract
eCad.92 - (eScene.23) Incident Census Tract

Update Overview & Summary Page

Code Type Reference Changes

Old:
9924001 = ICD10
9924003 = RxNorm

New:
3001001 = No
3001003 = Yes, Prior to EMS Arrival
3001005 = Yes, After EMS Arrival

Syntax (Grammar) Corrections
Changes were made so the formatting for the following are consistent: 1) e.g., and 2) etc.

<table>
<thead>
<tr>
<th>v3 Element</th>
<th>Code</th>
<th>Old Description</th>
<th>New Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>dAgency.14 - EMS Agency Organizational Tax Status</td>
<td>1018003</td>
<td>Other (ex: Government)</td>
<td>Other (e.g., Government)</td>
<td>Code List</td>
</tr>
<tr>
<td>dConfiguration.17 - Dispatch Center (CAD) Name or ID</td>
<td>N/A</td>
<td>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. Information in dConfiguration.17 may be used to populate eDispatch.04 - Computer Aided Dispatch (CAD) Name or ID if a CAD integration exists.</td>
<td>Comment</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>dContact.06 - Agency Contact City</td>
<td>N/A</td>
<td>The city should be the mailing address for each contact type for the EMS agency. The EMS agency primary address information (e.g. City) should be entered for the Agency Contact Type (dContact.05) “EMS Agency Director/Chief/Lead Administrator/CEO”.</td>
<td>Comment</td>
<td></td>
</tr>
<tr>
<td>dContact.12 - EMS Agency Contact Web Address</td>
<td>N/A</td>
<td>The EMS agency website address should be entered for the Agency Contact Type (dContact.05) “EMS Agency Director/Chief/Lead Administrator/CEO”. The EMS agency website address or other websites are optional for other contact types (e.g., Administrative Assistant, EMS Medical Director, etc.).</td>
<td>Comment</td>
<td></td>
</tr>
<tr>
<td>dFacility.04 - Hospital Designations</td>
<td>N/A</td>
<td>The designation(s) associated with the hospital (e.g. Trauma, STEMI, Peds, etc)</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>dLocation.07 - EMS Location City</td>
<td>N/A</td>
<td>The city of the EMS location type (e.g. fixed station, sub-station, staging area, etc).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eAirway.04 - Airway Device Placement Confirmed Method</td>
<td>4004013</td>
<td>Endotracheal Tube Whistle (BAAM, etc.)</td>
<td>Code List</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Name</td>
<td>Description</td>
<td>Comment</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------------------------</td>
<td></td>
</tr>
<tr>
<td>eDispatch.04 - Dispatch Center Name or ID</td>
<td>N/A</td>
<td>This element can be used to identify the dispatch center (Primary or Secondary Public Safety 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eDispatch.05 - Dispatch Priority (Patient Acuity)</td>
<td>2305007</td>
<td>Priority 4 (Non-Acute [e.g. Scheduled Transfer or Standby])</td>
<td>Code List</td>
<td></td>
</tr>
<tr>
<td>eDisposition.22 - Hospital In-Patient Destination</td>
<td>N/A</td>
<td>The location within the hospital that the patient was taken directly by EMS (e.g. Cath Lab, ICU, etc.)</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eDisposition.23 - Hospital Designation</td>
<td>N/A</td>
<td>The primary hospital capability associated with the patient’s condition for this transport (e.g. Trauma, STEMI, Peds, etc.).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eInjury.17 - ACN Incident Vehicle Manufacturer</td>
<td>N/A</td>
<td>The Automated Collision Notification Vehicle Manufacturer (e.g. General Motors, Ford, BMW).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eInjury.18 - ACN Incident Vehicle Make</td>
<td>N/A</td>
<td>The Automated Collision Notification Vehicle Make (e.g. Cadillac, Ford, BMW).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eInjury.19 - ACN Incident Vehicle Model</td>
<td>N/A</td>
<td>The Automated Collision Notification Vehicle Model (e.g. Escalade, Taurus, X6M).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>eInjury.20 - ACN Incident Vehicle Model Year</td>
<td>N/A</td>
<td>The Automated Collision Notification Vehicle Model Year (e.g. 2010).</td>
<td>Definition</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Value</td>
<td>Notes</td>
<td></td>
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<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>eInjury.24 - ACN Incident PDOF</td>
<td>Based on Vehicular Emergency Data Set: PDOF. Principal direction of the force of the impact to nearest o’clock reading. Values are 1 through 12 (e.g. 12=Frontal collision, 3=passenger side (right) collision, etc.). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.</td>
<td>N/A</td>
<td>Based on Vehicular Emergency Data Set: PDOF. Principal direction of the force of the impact to nearest o’clock reading. Values are 1 through 12 (e.g., 12=Frontal collision, 3=passenger side (right) collision, etc.). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.</td>
<td></td>
</tr>
<tr>
<td>eInjury.25 - ACN Incident Rollover</td>
<td>Based on Vehicular Emergency Data Set: Rollover. Indicates if the vehicle rolled over during the collision/event (e.g. True=Rollover, False=No Rollover). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.</td>
<td>N/A</td>
<td>Based on Vehicular Emergency Data Set: Rollover. Indicates if the vehicle rolled over during the collision/event (e.g., True=Rollover, False=No Rollover). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.</td>
<td></td>
</tr>
<tr>
<td>eOther.09 - External Electronic Documents</td>
<td>Diagnostic Image (CT, X-ray, US, etc)</td>
<td>4509005</td>
<td>Diagnostic Image (CT, X-Ray, US, etc)</td>
<td></td>
</tr>
<tr>
<td>eOutcome.01 - Emergency Department Disposition</td>
<td>Discharged/transferred to a Federal Health Care Facility (e.g. VA or federal health care facility)</td>
<td>43</td>
<td>Discharged/transferred to a Federal Health Care Facility (e.g., VA or federal health care facility)</td>
<td></td>
</tr>
<tr>
<td>eOutcome.02 - Hospital Disposition</td>
<td>Discharged/transferred to a Federal Health Care Facility (e.g. VA or federal health care facility)</td>
<td>43</td>
<td>Discharged/transferred to a Federal Health Care Facility (e.g., VA or federal health care facility)</td>
<td></td>
</tr>
<tr>
<td>Code List</td>
<td>Description</td>
<td></td>
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<tr>
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<tr>
<td>Code List</td>
<td>Description</td>
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</tr>
<tr>
<td>Code List</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ICD-10-PCS** has a seven character alphanumeric code structure. Each character contains up to 34 possible values. Each value represents a specific option for the general character definition (e.g., stomach is one of the values for the body part character). The ten digits 0-9 and the 24 letters A-H,J-N and P-Z may be used in each character. The letters O and I are not used in order to avoid confusion with the digits 0 and 1.


**Product** - UMLS Metathesaurus

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**Comment**

**eOutcome.09 - Emergency Department Procedures**

ICD-10-PCS has a seven character alphanumeric code structure. Each character contains up to 34 possible values. Each value represents a specific option for the general character definition (e.g., stomach is one of the values for the body part character). The ten digits 0-9 and the 24 letters A-H,J-N and P-Z may be used in each character. The letters O and I are not used in order to avoid confusion with the digits 0 and 1.


**Product** - UMLS Metathesaurus

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**Comment**

**eOutcome.12 - Hospital Procedures**

ICD-10-PCS has a seven character alphanumeric code structure. Each character contains up to 34 possible values. Each value represents a specific option for the general character definition (e.g., stomach is one of the values for the body part character). The ten digits 0-9 and the 24 letters A-H,J-N and P-Z may be used in each character. The letters O and I are not used in order to avoid confusion with the digits 0 and 1.


**Product** - UMLS Metathesaurus

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**Comment**

**ePayment.04 - Reason for Physician Certification Statement**

2604023 Orthopedic device (backboard, halo, use of pins in traction, etc) requiring special handling in transit

Orthopedic device (backboard, halo, use of pins in traction, etc) requiring special handling in transit

**Code List**
<table>
<thead>
<tr>
<th>eResponse.09 - Type of Response Delay</th>
<th>N/A</th>
<th>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service.</th>
<th>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service.</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>eResponse.10 - Type of Scene Delay</strong></td>
<td>2210039</td>
<td>Mechanical Issue-Unit, Equipment, etc.</td>
<td>Mechanical Issue-Unit, Equipment, etc.</td>
<td><strong>Code List</strong></td>
</tr>
<tr>
<td><strong>eResponse.11 - Type of Transport Delay</strong></td>
<td>2211031</td>
<td>Patient Condition Change (e.g. Unit Stopped)</td>
<td>Patient Condition Change (e.g., Unit Stopped)</td>
<td><strong>Code List</strong></td>
</tr>
<tr>
<td><strong>eResponse.12 - Type of Turn-Around Delay</strong></td>
<td>2212021</td>
<td>Route Obstruction (e.g., Train)</td>
<td>Route Obstruction (e.g., Train)</td>
<td><strong>Code List</strong></td>
</tr>
<tr>
<td>eResponse.12 - Type of Turn-Around Delay</td>
<td>N/A</td>
<td>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service.</td>
<td>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service.</td>
<td>Comment</td>
</tr>
<tr>
<td><strong>eVitals.15 - Respiratory Effort</strong></td>
<td>3315005</td>
<td>Mechanically Assisted (BVM, CPAP, etc)</td>
<td>Mechanically Assisted (BVM, CPAP, etc)</td>
<td><strong>Code List</strong></td>
</tr>
<tr>
<td>eDisposition.23 - Hospital Designation</td>
<td>N/A</td>
<td>The designation associated with the hospital for this transport (e.g., Trauma,)</td>
<td>The designation associated with the hospital for this transport (e.g., Trauma,)</td>
<td><strong>HospitalDesignation SimpleType Documentation Tag</strong></td>
</tr>
<tr>
<td>Tag</td>
<td>Description</td>
<td>Definition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eDisposition.22 - Hospital In-Patient Destination</td>
<td>The location within the hospital that the patient was taken directly by EMS (e.g., Cath Lab, ICU, etc.).</td>
<td>HospitalInPatientDestination SimpleType Documentation Tag</td>
<td></td>
<td></td>
</tr>
<tr>
<td>einjury.19 - ACN Incident Vehicle Model</td>
<td>The Automated Collision Notification Vehicle Model (e.g., Escalade, Taurus, X6M).</td>
<td>Model SimpleType Documentation Tag</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eCad.15 – Type of Response Delay</td>
<td>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc to return to service. A response delay is any time delay that occurs from the time the unit is notified by dispatch (eTimes.03) to the time the unit arrived on scene (eTimes.06).</td>
<td>Comment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dConfiguration.17 - Dispatch Center (CAD) Name or ID</td>
<td>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. Information in dConfiguration.17 may be used to populate eDispatch.04 - Computer Aided Dispatch (CAD) Name or ID if a CAD integration exists.</td>
<td>Comment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dFacility.04 - Hospital Designations</td>
<td>The designation(s) associated with the hospital (e.g., Trauma, STEMI, Peds, etc)</td>
<td>definition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eCad.15 - eResponse.09</td>
<td>Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc to return to service. A response delay is any time delay that occurs from the time the unit is notified by dispatch (eTimes.03) to the time the unit arrived on scene</td>
<td>Comment</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc to return to service. If a patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the patient arrived at the destination (eTimes.10) until the time the unit is back in service (eTimes.13) or unit back at the home location (eTimes15) [whichever is the greater of the two times].

If no patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the unit arrived on scene (eTimes.06) until the unit is back in service (eTimes.13) or the unit back at the home location (eTimes.15) [whichever is the greater of the two times].

Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service. If a patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the patient arrived at the destination (eTimes.10) until the time the unit is back in service (eTimes.13) or unit back at the home location (eTimes15) [whichever is the greater of the two times].

If no patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the unit arrived on scene (eTimes.06) until the unit is back in service (eTimes.13) or the unit back at the home location (eTimes.15) [whichever is the greater of the two times].
Deprecated Items Removed

Enumeration Code/Description Removed

9905017 = Nurse

Elements Affected
eMedications.10 - Role/Type of Person Administering Medication
eProcedures.10 - Role/Type of Person Performing the Procedure

9908013 = STEMI

Elements Affected
eDisposition.23 - Hospital Designation
dFacility.04 - Hospital Designations

9908015 = STEMI Center (24/7)

Elements Affected
eDisposition.23 - Hospital Designation
dFacility.04 - Hospital Designations

9911017 = Nurse

Elements Affected
dConfiguration.02 - State Certification/Licensure Levels

9917017 = Nurse

Elements Affected
dAgency.11 - Level of Service
dConfiguration.06 - EMS Certification Levels Permitted to Perform Each Procedure
dConfiguration.08 - EMS Certification Levels Permitted to Administer Each Medication
dVehicle.05 - Crew State Certification/Licensure Levels

9925021 = Nurse

Elements Affected
dPersonnel.24 - EMS Personnel's State EMS Certification Licensure Level
dPersonnel.38 - EMS Professional's Practice Level
eCrew.02 - Crew Member Level

2207001 = Air Transport
Elements Affected
eResponse.07 - Primary Role of the Unit

2622007 = Other

Elements Affected
ePayment.22 - Relationship to the Insured

3011003 = Bradycardia

Elements Affected
eArrest.11 - First Monitored Arrest Rhythm of the Patient

3708027 = Itching/Urticaria

Elements Affected
eMedications.08 - Medication Complication

Elements Removed

ePayment.43 - Ambulance Transport Code
Elements Removed

Elements Removed

eArrest.10 - Therapeutic Hypothermia Initiated
CommonTypes

SimpleType: ANSICountyCode

Constraint Changes

**New:** Pattern; [0-9][5]

**Elements Affected (15)**

DEM DataSet (8):
- dFacility.11 - Facility County
- dAgency.06 - EMS Agency Service Area County(ies)
- dLocation.10 - EMS Location County
- dAgency.06 - EMS Agency Service Area County(ies)

EMS DataSet (3):
- eDisposition.06 - Destination County
- ePatient.07 - Patient's Home County
- eScene.21 - Incident County

CAD DataSet (3):
- eCad.58 - (ePatient.07) Patient's Home County
- eCad.90 - (eScene.21) Incident County
- eCad.98 - (eDisposition.06) Destination County

SimpleType: ANSIStateCode

Constraint Changes

**New:** Pattern; [0-9][2]

**Elements Affected (15)**

DEM DataSet (8):
- dAgency.04 - EMS Agency State
- dAgency.05 - EMS Agency Service Area States
- dConfiguration.01 - State Associated with the Certification/Licensure Levels
- dContact.07 - Agency Contact State
- dFacility.09 - Facility State
- dLocation.08 - EMS Location State
- dPersonnel.06 - EMS Personnel's State
- dPersonnel.22 - EMS Personnel's State of Licensure

EMS DataSet (7):
- ePatient.08 - Patient’s Home State
New SimpleType: CityGnisCodePayment

Constraints

Data Type = String

Constraint Additions

minLength = 2
maxLength = 30

Elements Affected (3)

ePayment.13 - Insurance Company City
ePayment.27 - Closest Relative/Guardian City
ePayment.35 - Patient's Employer's City

SimpleType: CodeType

Documentation Tag Change

Old: Indication of the possibility by the patient's history of a current pregnancy.

New: Identifier if the code used for patient medication allergies is based on an RxNorm code or an ICD-10 code.

SimpleType: CrewMemberID

Constraint Changes

Old: maxLength = 15
New: maxLength = 50

Elements Affected (6)

eAirway.07 - Crew Member ID
eCrew.01 - Crew Member ID
eMedications.09 - Medication Crew (Healthcare Professionals) ID
eOther.04 - EMS Professional (Crew Member) ID
**SimpleType: CurrentMedicationAdministrationRoute**

**Enumeration Code/Description Changes**

**Value Added**

**New**: 9927061 = Portacath

**Elements Affected (6)**

eHistory.15 - Current Medication Administration Route
eMedications.04 - Medication Administered Route

**SimpleType: icd10Code**

**Pattern Changes**

**Old**: [A-Z][0-9][2]((\[0-9A-Z]{1,3})?)

**New**: [A-Z][0-9][0-9A-Z]((\[0-9A-Z]{1,3})?)

**Elements Affected (2)**

eOutcome.10 - Emergency Department Diagnosis
ePayment.51 - EMS Condition Code

**SimpleType: icd10CodeOutcomeDiagnosis**

**Pattern Changes**

**Old**: [A-Z][0-9][2]((\[0-9A-Z]{1,4})?)

**New**: [A-Z][0-9][0-9A-Z]((\[0-9A-Z]{1,4})?)

**Elements Affected (1)**

eOutcome.13 - Hospital Diagnosis

**SimpleType: ImmunizationType**

**Enumeration Code/Description Changes**

**Old**: 9910005 - DPT (Diphtheria, Pertussis, Tetanus)

**New**: 9910005 - DPT / TDaP (Diphtheria, Pertussis, Tetanus)

**Elements Affected (1)**

eHistory.10 - The Patient's Type of Immunization

**SimpleType: PersonLastName**

**Constraint Changes**

**Old**: maxLength = 50

**New**: maxLength = 60
Elements Affected (8)
DEM DataSet (2):
dPersonnel.01 - EMS Personnel's Last Name
dContact.02 - Agency Contact Last Name

EMS DataSet (5):
ePatient.02 - Last Name
ePayment.06 - Last Name of Individual Signing Physician Certification Statement
ePayment.19 - Last Name of the Insured
ePayment.23 - Closest Relative/Guardian Last Name
eHistory.02 - Last Name of Patient's Practitioner

CAD DataSet (1):
eCad.53 - (ePatient.02) Last Name

**SimpleType: PersonName**
Constraint Changes

**Old**: maxLength = 50
**New**: maxLength = 255

Elements Affected (3)
eMedications.12 - Medication Authorizing Physician
eProcedures.12 - Procedure Authorizing Physician
ePayment.54 - Prior Authorization Code Payer

**SimpleType: Protocols Used**
Enumeration Code/Description Changes

**Value Description Changes:**
**Old**: 9914135 = Medical-Overdose/Poisoning/Toxic Ingestion
**New**: 9914135 = General-Overdose/Poisoning/Toxic Ingestion

**Old**: 9914139 = Medical-Respiratory Distress/Asthma/COPD/Croup/Reactive Airway
**New**: 9914139 = Medical-Respiratory Distress/Asthma/COPD/Reactive Airway

**New Values:**
9914201 = Cardiac Arrest-Determination of Death / Withholding Resuscitative Efforts
9914203 = Injury-Conducted Electrical Weapon (e.g., Taser)
9914205 = Injury-Facial Trauma
9914207 = Injury-General Trauma Management
9914209 = Injury-Lightning/Lightning Strike
9914211 = Injury-SCUBA Injury/Accidents
9914213 = Injury-Topical Chemical Burn
9914215 = Medical-Beta Blocker Poisoning/Overdose
9914217 = Medical-Calcium Channel Blocker Poisoning/Overdose
9914219 = Medical-Opioid Poisoning/Overdose
9914221 = Medical-Respiratory Distress-Bronchiolitis
9914223 = Medical-Respiratory Distress-Croup
9914225 = Medical-Stimulant Poisoning/Overdose

Element Affected (3)
DEM DataSet (2):
dConfiguration.05 - Protocols Permitted by the State
dConfiguration.10 - EMS Agency Protocols

EMS DataSet (1):
eProtocols.01 - Protocols Used

**SimpleType: USNG**

**Pattern Changes**

**Old:** [1][0-9][R,S,T,U][ABCDEFGHIJKLMNOPQRSTUVWXYZ][ABCDEFGHIJKLMNOPQRSTUVWXYZ][0-9]{8}

**New:** [1][0-9][RSTU][ABCDEFGHIJKLMNOPQRSTUVWXYZ][ABCDEFGHIJKLMNOPQRSTUVWXYZ][0-9]{8}

Element Affected (8)
DEM DataSet (2):
dFacility.14 - Facility US National Grid Coordinates
dLocation.05 - EMS Location US National Grid Coordinates

EMS DataSet (3):
eDisposition.10 - Disposition Location US National Grid Coordinates
eResponse.18 - Vehicle Dispatch Location US National Grid Coordinates
eScene.12 - Scene US National Grid Coordinates

CAD DataSet (3)
eCad.24 - (eResponse.18) Vehicle Location US National Grid Coordinates
eCad.81 - (eScene.12) Scene US National Grid Coordinates
eCad.102 - (eDisposition.10) Disposition Location US National Grid Coordinates

**SimpleType: StreetAddress**

**Constraint Changes**

**Old:** maxLength = 55

**New:** maxLength = 255

**Elements Affected (13)**
DEM DataSet (4):
dContact.05 - Agency Contact Address
dLocation.06 - EMS Location Address
dPersonnel.04 - EMS Personnel's Mailing Address
dFacility.07 - Facility Street Address

EMS DataSet (6):
ePatient.05 - Patient's Home Address
ePayment.12 - Insurance Company Address
ePayment.26 - Closest Relative/ Guardian Street Address
ePayment.34 - Patient's Employer's Address
eScene.15 - Incident Street Address
eDisposition.03 - Destination Street Address

CAD DataSet (3):
eCad.56 - (ePatient.05) Patient's Home Address
eCad.84 - (eScene.15) Incident Street Address
eCad.95 - (eDisposition.03) Destination Street Address
**SimpleTypes**

**AssociatedSymptoms**

**Pattern Change**

**Old:** (R[0-6][0-9](.0-9){1,4}?|(R73\9)|(R99)||(A-QSTZ\0-9\2)(\0-9A-Z\1,4)?)

**New:** (R[0-6][0-9](.0-9){1,4}?|(R73\9)|(R99)||(A-QSTZ\0-9\0-9A-Z\1,4)?)

**Elements Affected (2)**

eSituation.09 - Primary Symptom

eSituation.10 - Other Associated Symptoms

**InsuranceCompanyIDName**

**Element Name Change**

**Old:** InsuranceCompanyIDName

**New:** InsuranceGroupID

**Elements Affected (1)**

ePayment.17 - Insurance Group ID

**ProvidersImpression**

**Pattern Change**

**Old:** (R[0-6][0-9](.0-9){1,4}?|(R73\9)|(R99)||(A-QSTZ\0-9\2)(\0-9A-Z\1,4)?)

**New:** (R[0-6][0-9](.0-9){1,4}?|(R73\9)|(R99)||(A-QSTZ\0-9\0-9A-Z\1,4)?)

**Elements Affected (2)**

eSituation.11 - Provider's Primary Impression

eSituation.12 - Provider's Secondary Impressions
dAgency

dAgency.22 – EMS Billable Calls per Year
NOT Value Addition

7701005 = Not Reporting
dConfiguration

**dConfiguration.05 - Protocols Permitted by the State**

Value Changes or Additions

See SimpleType: ProtocolsUsed for detailed list (pages 19-20).

**dConfiguration.10 - EMS Agency Protocols**

Value Changes or Additions

See SimpleType: ProtocolsUsed for detailed list (pages 19-20).
dContact

dContact.15 – Medical Directory Compensation
Comment Change

Old: Associated with EMS Medical Directors only.

New: This element applies to the Medical Director(s) for an EMS agency (EMS Medical Director and EMS Assistant Medical Director).
dCustomConfiguration

dCustomConfiguration.CustomGroup – CustomElementID Attribute

Use Change

Old: Optional
New: Required

NEW ELEMENT: dCustomConfiguration.09 – Custom Element Grouping ID

Name: Custom Data Element Grouping ID
Definition: ID for how custom elements are grouped.
Usage: Optional

Data Type: CorrelationID

National Element = No
State Element = No
Usage = Optional

Pertinent Negatives (PN) = No
NOT Values = No
**dFacility**

**dFacility.01 – Type of Facility**  
**Enumeration Code/Description Changes**

**Values Added:**
- 1701013 = Rehabilitation Facility
- 1701015 = Mental Health Facility
- 1701017 = Dialysis Center

**dFacility.05 – Facility National Provider Identifier**  
**Recurrence Change**

**Old:** 0:1  
**New:** 0:M

**dFacility.03 – Facility Location Code**  
**Definition Change**

**Old:** The information contained within this element could be used to populate eScene.09 (Incident Facility Code) or eDisposition.02 (Destination/Transferred To, Code) via a drop down list created at either the EMS Agency or State level.

**New:** The information contained within this element could be used to populate eScene.10 (Incident Facility Code) or eDisposition.02 (Destination/Transferred To, Code) via a drop down list created at either the EMS Agency or State level.

**NEW ELEMENT: dFacility.15 - Facility Phone Number**

**Name:** Facility Phone Number  
**Definition:** Facility phone number.  
**Usage:** Optional  
**Comment:** This element contains an attribute to define what type of phone number is being documented (e.g., Fax, Home, Mobile, Pager, and Work).

**Data Type:** PhoneNumber

**Attribute:** Name: PhoneNumberType  
**Data Type:** PhoneNumberType

**National Element** = No  
**State Element** = No  
**Usage** = Optional
Pertinent Negatives (PN) = No
NOT Values = No
Is Nillable = No
Recurrence = 0:M
dLocation

dLocation.08 – EMS Location State
Comment Change

Old: Based on the ANSI Code.
ANSI Country Codes (ISO 3166)
Website: http://geonames.usgs.gov/domestic/download_data.htm

New: Based on the ANSI State Code.
GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm

dLocation.10 – EMS Location County
Comment Change

Old: County codes are based on ISO/ANSI codes. A 5-digit code based on state (2-digits) and county (5-digit).
GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm

New: Based on the ANSI Code Single Choice based on the County Name but stored as the ANSI code (combined 5 digit State and County codes).

GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm
dPersonnel

dPersonnel.24 – EMS Personnel's State Certification Licensure Level
NOT Value Addition

7701005 = Not Reporting

dPersonnel.29 – EMS Personnel's State Certification Licensure Level
Code Value Change

Old: 1529901 = 2009 Advanced Emergency Medical Technician (AEMT)

New: 1529001 = 2009 Advanced Emergency Medical Technician (AEMT)

dPersonnel.38 – EMS Professional's Practice Level
Element Name Change

Old: dPersonnel.38 - EMS Professional's Practice Level

New: dPersonnel.38 - EMS Personnel's Practice Level

ID Change

Old: dPersonnel.EMSProfessionalsPracticeLevel

New: dPersonnel.EMSPersonnelsPracticeLevel

dPersonnel.39 – Date of Professional's Certification or Licensure for Agency
Element Name Change

Old: Date of Professional's Certification or Licensure for Agency

New: Date of Personnel's Certification or Licensure for Agency

ID Change

Old: dPersonnel.DateofProfessionalsCertificationorLicensureforAgency

New: dPersonnel.DateofPersonsCertificationorLicensureforAgency
eAirway

eAirway.07 – Crew Member ID
Definition Change

Old: The crew member id during this EMS patient encounter at this date and time.
New: The statewide assigned ID number of the EMS crew member confirming the airway placement.

eAirway.08 – Airway Complications Encountered
Element Location Change

Old: Part of eAirway.ConfirmationGroup
New: Outside of eAirway.ConfirmationGroup

eAirway.09 – Suspected Reasons for Failed Airway Procedure
Element Name Change

Old: Suspected Reasons for Failed Airway Procedure
New: Suspected Reasons for Failed Airway Management

Element Location Change

Old: Part of eAirway.ConfirmationGroup
New: Outside of eAirway.ConfirmationGroup

ID Change

Old: eAirway.SuspectedReasonsforFailedAirwayProcedure
New: eAirway.SuspectedReasonsforFailedAirwayManagement
**eArrest**

**eArrest.09 – Type of CPR Provided**
*Enumeration Code/Description Changes*

- **Old**: 3009011 = Compressions-Other Device (Not Listed)
- **New**: 3009011 = Compressions-Other Device

**eArrest.10 – Therapeutic Hypothermia Initiated**
This Element Has Been Removed

**eArrest.15 – Date/Time Resuscitation Discontinued**
*Definition Change*

- **Old**: The date/time the CPR was discontinued (or could be time of death)
- **New**: The date/time resuscitation was discontinued.

**NEW ELEMENT: eArrest.19 – Date/Time of Initial CPR**

*Definition*: The initial date and time that CPR was started by anyone.

- **National Element** = No
- **State Element** = No
- **Usage** = Optional

- **Pertinent Negatives (PN)** = No
- **NOT Values** = No
- **Is Nillable** = No
- **Recurrence** = 0:1

*Restrictions*: CommonType: DateTime
NEW ELEMENT: eCustomConfiguration.09 - Custom Element Grouping ID

**Name:** Custom Data Element Grouping ID
**Definition:** ID for how custom elements are grouped.
**Usage:** Optional

**Data Type:** CorrelationID

**National Element** = No
**State Element** = No
**Usage** = Optional

**Pertinent Negatives (PN)** = No
**NOT Values** = No
eDevice

eDevice.06 – AED Pacing or CO2 Mode

ID Change

Old: eDevice.AEDPacingorCO2Mode
New: eDevice.AEDPacingorCO2Mode

Please note: This change is only noted in the XSD file eDevice_v3.xsd. It is not visible in the data dictionary documentation.
eDispatch

**eDispatch.01 – Complaint Reported by Dispatch**

Enumeration Code/Description Change

**Old:** 2301083 = Airmedical Transport
**New:** 2301083 = Air Medical Transport

**eDispatch.05 – Dispatch Priority (Patient Acuity)**

Comment Change

**Old:** The use of priority and acuity values vary by EMS agency. Some systems may utilize fewer than four priority levels and some more. The use of four priority levels is to capture the majority and allow for the inclusion of the NHTSA National EMS Core Content definitions for patient acuity, specifically: Critical, Emergent, and Lower Acuity.

Provided below is an example application only. This example bears no relationship to any particular federal, state, or agency billing requirement.

For EMS Agencies and CAD / EMD systems utilizing Alpha-Echo, Omega levels for determining the priority level for dispatch of the EMS unit, the recommended mapping is:

<table>
<thead>
<tr>
<th>Echo</th>
<th>Charlie</th>
<th>Alpha</th>
<th>Delta</th>
<th>Bravo</th>
<th>Omega</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority 1</td>
<td>Priority 2</td>
<td>Priority 3</td>
<td>Priority 1</td>
<td>Priority 2</td>
<td>Priority 4</td>
</tr>
</tbody>
</table>

Priority 1 is typically an emergent (lights and sirens) response
Priority 2 is typically an emergent response without the use lights and sirens
Priority 3 is typically a non-emergent response for nursing home, hospital-to-hospital transfers, etc.
Priority 4 is typically a scheduled response (scheduled transfer) or standby event

Definitions related to "Critical, Emergent, and Lower Acuity" can be found in the National EMS Core Content document from NHTSA EMS (DOT HS 809-898 July 2005) at


For Air Medical Transports the most appropriate values choices should be limited to two: Emergent (Priority 2) and Non-Emergent (Priority 4).

**New:** The use of acuity values vary by EMS agency. Some systems may utilize fewer than four levels and some more. The use of four levels is to capture the majority and allow for the inclusion of the NHTSA National EMS Core Content definitions for patient acuity, specifically: Critical, Emergent, and Lower Acuity.
Provided below is an example application only. This example bears no relationship to any particular federal, state, or agency billing requirement.

For EMS Agencies and CAD / EMD systems utilizing Alpha-Echo, Omega levels for determining the priority level for dispatch of the EMS unit, the recommended mapping is:

<table>
<thead>
<tr>
<th>Alpha</th>
<th>Bravo</th>
<th>Echo</th>
<th>Charlie</th>
<th>Delta</th>
<th>Delta</th>
</tr>
</thead>
<tbody>
<tr>
<td>= Lower Acuity</td>
<td>= Emergent</td>
<td>= Critical</td>
<td>= Emergent</td>
<td>= Critical</td>
<td>= Emergent</td>
</tr>
</tbody>
</table>


For Air Medical Transports the most appropriate values choices should be limited to two: Emergent and Non-Acute.

Enumeration Code/Description Changes

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>2305001 = Priority 1 (Critical)</td>
<td>2305001 = Critical</td>
</tr>
<tr>
<td>2305003 = Priority 2 (Emergent)</td>
<td>2305003 = Emergent</td>
</tr>
<tr>
<td>2305005 = Priority 3 (Lower Acuity)</td>
<td>2305005 = Lower Acuity</td>
</tr>
<tr>
<td>2305007 = Priority 4 (Non-Acute [e.g. Scheduled Transfer or Standby])</td>
<td>2305007 = Non-Acute (e.g., Scheduled Transfer or Standby)</td>
</tr>
</tbody>
</table>

NEW ELEMENT: eDispatch.06 - Unit Dispatched CAD Record ID

**Definition:** The unique ID assigned by the CAD system for the specific unit response.

**National:** No

**State:** No

**PN:** No

**NV:** No

**Nillable:** No

**Usage:** Optional

**Recurrence:** 1:1

**Constraints**

a) Data Type: String

b) minLength: 3

c) maxLength: 50
**Comment:** The Unit Dispatched CAD Record ID is populated from a CAD system. This information will not be known to the EMS professional.

Use Case: Some CAD systems may use the Unit Dispatched CAD Record ID as the Patient Care Report Number (eRecord.01). This may also be a GUID from a CAD system. A GUID for the CAD push to remain unique as updates are sent from CAD. This could be a stream and unique to the record or patient depending on the capabilities of the CAD system. How the Unit Dispatched CAD Record ID is created could vary as it could be a concatenation of multiple elements or a true GUID.
eDisposition

eDisposition.02 – Destination Transferred To, Code

Comment Change

**Old:** May be populated from list in dFacility.03 (Facility Location Code) or dFacility.05 (Facility National Provider Identifier) if a health care facility. NPI codes can be found on the NEMSIS SharePoint site.

**New:** May be populated from list in dFacility.03 (Facility Location Code) or dFacility.05 (Facility National Provider Identifier) if a health care facility.

eDisposition.10 – Disposition Location US National Grid Coordinates

Element Name Change

**Old:** Disposition Location US National Grid Coordinates

**New:** Destination Location US National Grid Coordinates

ID Change

**Old:** DispositionLocationUSNationalGridCoordinates

**New:** DestinationLocationUSNationalGridCoordinates

Definition Change

**Old:** The US National Grid Coordinates for the Disposition Location. This may be the Healthcare Facility US National Grid Coordinates.

**New:** The US National Grid Coordinates for the Destination Location. This may be the Healthcare Facility US National Grid Coordinates.

eDisposition.14 – Position of Patient During Transport

Enumeration Code/Description Changes

**Old:** 4214009 = Other (Not Listed)

**New:** 4214009 = Other

eDisposition.19 – Condition of Patient at Destination

Element Name Change

**Old:** Condition of Patient at Destination

**New:** Final Patient Acuity
ID Change

**Old:** eDisposition.ConditionofPatientatDestination  
**New:** eDisposition.FinalPatientAcuity

Definition Change

**Old:** The condition of the patient after care by EMS  
**New:** The acuity of the patient's condition after EMS care.

Enumeration Code/Description Changes

**Values Removed:**  
9916001 = Improved  
9916003 = Unchanged  
9916005 = Worse

**New Values:**  
4219001 = Critical (Red)  
4219003 = Emergent (Yellow)  
4219005 = Lower Acuity (Green)  
4219007 = Dead without Resuscitation Efforts (Black)

Comment Addition

**New:** Definitions related to "Critical, Emergent, and Lower Acuity" can be found in the National EMS Core Content document from NHTSA EMS (DOT HS 809-898 July 2005) at http://www.nhtsa.gov/people/injury/ems/emscorecontent/images/EMSCoreContent.pdf

eDisposition.21 – Type of Destination

**Comment Change**

**Old:** Required if Patient Transported by EMS. "Hospital-Non-Emergency Department Bed" includes any location in the hospital except the Emergency Department. Choices include those in eDisposition.22 (Hospital In-Patient Destination).

**New:** Required if Patient Transported by EMS.

eDisposition.22 – Hospital In-Patient Destination

**Values Added**

4222051 = Hospital-Oncology  
4222053 = Hospital-Outpatient Surgery
**eDisposition.23 – Hospital Designation**

**Element Name Change**

Old: Hospital Designation  
New: Hospital Capability

**ID Change**

Old: HospitalDesignation  
New: HospitalCapability

**Comment Change**

Old: To be documented when in eDisposition.21 (Type of Destination) equals "4221003: Hospital-Emergency Department" or "4221005: Hospital-In Patient Bed" is selected.

New: To be documented when eDisposition.21 (Type of Destination) is 1) Hospital-Emergency Department, 2) Hospital-Non-Emergency Department Bed, or 3) Freestanding Emergency Department.
eExam

**eExam.04 – Skin Assessment**
Enumeration Code/Description Changes

Values Added:
- 3504035 = Capillary Nail Bed Refill less than 2 seconds
- 3504037 = Capillary Nail Bed Refill 2-4 seconds
- 3504039 = Capillary Nail Bed Refill more than 4 seconds

**eExam.05 – Head Assessment**
Enumeration Code/Description Changes

Old: 3505045 = Gunshot Wound-Unknown if Entry or Exit
New: 3505045 = Gunshot Wound

Values Removed:
- 3505025 = Gunshot Wound-Entry
- 350527 = Gunshot Wound-Exit

**eExam.06 – Face Assessment**
Enumeration Code/Description Changes

Old: 3506047 = Gunshot Wound-Unknown if Entry or Exit
New: 3506047 = Gunshot Wound

Values Removed:
- 3506019 = Decapitation
- 3506027 = Gunshot Wound-Entry
- 3506029 = Gunshot Wound-Exit

**eExam.07 – Neck Assessment**
Enumeration Code/Description Changes

Old: 3507049 = Gunshot Wound-Unknown if Entry or Exit
New: 3507049 = Gunshot Wound

Values Removed:
- 3507021 = Gunshot Wound-Entry
- 3507023 = Gunshot Wound-Exit

**eExam.08 – Chest/Lungs Assessment**
Enumeration Code/Description Changes
Old: 3508103 = Tenderness
New: 3508103 = Tenderness-General

Old: 3508097 = Gunshot Wound-Unknown if Entry or Exit
New: 3508097 = Gunshot Wound

Values Removed:
3508043 = Gunshot Wound-Entry
3508045 = Gunshot Wound-Exit

eExam.10 – Abdominal Assessment Finding Location
Enumeration Code/Description Changes

Values Added:
3510013 = Epigastric

eExam.11 – Abdomen Assessment
Enumeration Code/Description Changes

Old: 3511053 = Gunshot Wound-Unknown if Entry or Exit
New: 3511053 = Gunshot Wound

Values Removed:
3511027 = Gunshot Wound-Entry
3511029 = Gunshot Wound-Exit

Values Added:
3511063 = Rebound Tenderness
3511065 = Rigidity

eExam.12 – Pelvis/Genitourinary Assessment
Enumeration Code/Description Changes

Old: 3512059 Gunshot Wound-Unknown if Entry or Exit
New: 3512059 Gunshot Wound

Values Removed:
3512029 = Gunshot Wound-Entry
3512031 = Gunshot Wound-Exit

eExam.13 – Back and Spine Assessment
Enumeration Code/Description Changes

Values Removed:
3513027 = Crush Injury
eExam.14 – Back and Spine Assessment
Enumeration Code/Description Changes

Old: 3514047 Gunshot Wound-Unknown if Entry or Exit
New: 3514047 Gunshot Wound

Values Removed:
3514021 = Gunshot Wound-Entry
3514023 = Gunshot Wound-Exit

eExam.16 – Extremities Assessment
Enumeration Code/Description Changes

Old: 3516077 = Gunshot Wound-Unknown if Entry or Exit
New: 3516077 = Gunshot Wound

Values Removed:
3516037 = Gunshot Wound-Entry
3516039 = Gunshot Wound-Exit

Values Added:
3516083 = Arm Drift

eExam.19 – Mental Status Assessment
Enumeration Code/Description Changes

Values Added:
3519023 = Agitation
3519025 = Somnolent
3519027 = Stupor

eExam.20 – Neurological Assessment
Enumeration Code/Description Changes

Values Added:
3520051 = Arm Drift-Left
3520053 = Arm Drift-Right

Values Removed:
3520047 = Reported Stroke Symptoms Resolved Prior to EMS Arrival
3520049 = Reported Stroke Symptoms Resolved in EMS Presence

NEW ELEMENT: eExam.21 – Stroke/CVA Symptoms Resolved
Definition: Indication if the Stroke/CVA Symptoms resolved and when.

National Element = No
**State Element** = Yes
**Usage** = Recommended

**Pertinent Negatives (PN)** = Yes
8801023 = Unable to Complete

**NOT Values** = Yes
7701001 = Not Applicable
7701003 = Not Recorded
7701005 = Not Reporting

**Is Nillable** = Yes
**Recurrence** = 0:1

**Restrictions:**
3521001 = No
3521003 = Yes-Resolved Prior to EMS Arrival
3521005 = Yes-Resolved in EMS Presence
eHistory

**eHistory.01 - Barriers to Patient Care**

*Enumeration Code/Description Changes*

**Values Added:**

3101031 = State of Emotional Distress

**eHistory.06 - Medication Allergies**

*Comment Removed*

**Old:** Added Obesity, Sight Impaired, Psychologically Impaired

**Pertinent Negatives (PN) Changes**

**Added:** 8801021 = Unresponsive

**eHistory.08 - Medical Surgical History**

*Pattern Change*

**Old:** ([A-QSTZ][0-9][2])\([\0-9A-Z][1,3]\)?

**New:** ([A-QRSTZ][0-9][0-9A-Z])\([\0-9A-Z][1,3]\)? or [0-9A-HJ-NP-Z][3,7]

*Comment Change*

**Old:** Code list is represented by ICD-10-CM. Reference the NEMSIS Suggested Lists at: [http://nemsis.org/v3/resources.html](http://nemsis.org/v3/resources.html)

ICD-10-CM
Product - UMLS Metathesaurus

**New:** The Medical/Surgical History pattern has been extended to include ICD-10-CM: Diagnosis Codes and ICD-10-PCS: Procedural Health Intervention Codes.

ICD-10-CM: Diagnosis Codes.
Product - UMLS Metathesaurus
Please reference the NEMSIS Suggested Lists at: [http://nemsis.org/v3/resources.html](http://nemsis.org/v3/resources.html)

ICD-10-PCS has a seven character alphanumeric code structure. Each character contains up to 34 possible values. Each value represents a specific option for the general character definition (e.g., stomach is one of the values for the body part character).
The ten digits 0-9 and the 24 letters A-H,J-N and P-Z may be used in each character. The letters O and I are not used in order to avoid confusion with the digits 0 and 1. There are no decimals in ICD-10-PCS.


Product - UMLS Metathesaurus

**NOT Value Addition**

7701005 = Not Reporting

**eHistory.11 – Immunization Date**

*Element Name Change*

**Old:** Immunization Date  
**New:** Immunization Year

**ID Change**

**Old:** eHistory.ImmunizationDate  
**New:** eHistory.ImmunizationYear

**eHistory.14 – Current Medication Dosage Unit**

*Enumeration Code/Description Changes*

<table>
<thead>
<tr>
<th>Code</th>
<th>Description for eHistory.14</th>
<th>New Descriptors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3114001</td>
<td>cm</td>
<td>Centimeters (cm)</td>
</tr>
<tr>
<td>3114003</td>
<td>gms</td>
<td>Grams (gms)</td>
</tr>
<tr>
<td>3114005</td>
<td>gtts (drops)</td>
<td>Drops (gtts)</td>
</tr>
<tr>
<td>3114007</td>
<td>inches</td>
<td>Inches (in)</td>
</tr>
<tr>
<td>3114009</td>
<td>iu</td>
<td>International Units (IU)</td>
</tr>
<tr>
<td>3114011</td>
<td>kho (keep vein open)</td>
<td>Keep Vein Open (kvo)</td>
</tr>
<tr>
<td>3114013</td>
<td>l/min (fluid administration)</td>
<td>Liters Per Minute (l/min [fluid])</td>
</tr>
<tr>
<td>3114015</td>
<td>liters</td>
<td>Liters (l)</td>
</tr>
<tr>
<td>3114017</td>
<td>LPM (gas administration)</td>
<td>Liters Per Minute (LPM [gas])</td>
</tr>
<tr>
<td>3114019</td>
<td>mcg</td>
<td>Micrograms (mcg)</td>
</tr>
<tr>
<td>3114021</td>
<td>mcg/kg/min</td>
<td>Micrograms per Kilogram per Minute (mcg/kg/min)</td>
</tr>
<tr>
<td>Code</td>
<td>Unit</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>3114023</td>
<td>mcg/min</td>
<td>Micrograms per Minute (mcg/min)</td>
</tr>
<tr>
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<td>meq</td>
<td>Milliequivalents (mEq)</td>
</tr>
<tr>
<td>3114027</td>
<td>metered dose</td>
<td>Metered Dose (MDI)</td>
</tr>
<tr>
<td>3114029</td>
<td>mg</td>
<td>Milligrams (mg)</td>
</tr>
<tr>
<td>3114031</td>
<td>mg/kg</td>
<td>Milligrams per Kilogram (mg/kg)</td>
</tr>
<tr>
<td>3114033</td>
<td>mg/kg/min</td>
<td>Milligrams per Kilogram Per Minute (mg/kg/min)</td>
</tr>
<tr>
<td>3114035</td>
<td>mg/min</td>
<td>Milligrams per Minute (mg/min)</td>
</tr>
<tr>
<td>3114037</td>
<td>ml</td>
<td>Milliliters (ml)</td>
</tr>
<tr>
<td>3114039</td>
<td>ml/hr</td>
<td>Milliliters per Hour (ml/hr)</td>
</tr>
<tr>
<td>3114041</td>
<td>other (Not Listed)</td>
<td>Other</td>
</tr>
<tr>
<td>3114043</td>
<td>puffs</td>
<td>Puffs</td>
</tr>
<tr>
<td>3114045</td>
<td>units/hr</td>
<td>Units per Hour (units/hr)</td>
</tr>
<tr>
<td>3114047</td>
<td>NEW</td>
<td>Micrograms per Kilogram (mcg/kg)</td>
</tr>
<tr>
<td>3114049</td>
<td>NEW</td>
<td>Units</td>
</tr>
<tr>
<td>3114051</td>
<td>NEW</td>
<td>Units per Kilogram per Hour (units/kg/hr)</td>
</tr>
<tr>
<td>3114053</td>
<td>NEW</td>
<td>Units per Kilogram (units/kg)</td>
</tr>
</tbody>
</table>
eInjury

**eInjury.03 – Trauma Center Criteria**

Enumeration Code/Description Changes

Old: 2903007 = Glasgow Coma Score < 14  
New: 2903007 = Glasgow Coma Score <= 13

**eInjury.04 – Vehicular, Pedestrian, or Other Injury Risk Factor**

Enumeration Code/Description Changes

Old: 2904009 = Crash Ejection (partial or complete) from vehicle  
New: 2904009 = Crash Ejection (partial or complete) from automobile

Values Added  
2904025 = Burn, without other trauma  
2904027 = Burn, with trauma mechanism

Pertinent Negatives (NV) Removed

Values Removed  
8801005 = Exam Finding Not Present

**eInjury.24 – ACN Incident PDOF**

Enumeration Code/Description Changes

Old: Based on Vehicular Emergency Data Set: PDOF. Principal direction of the force of the impact to nearest o’clock reading. Values are 1 through 12 (e.g., 12=Frontal collision, 3=passenger side (right) collision, etc.). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.

New: Based on Vehicular Emergency Data Set: PDOF. Principal direction of the force of the impact to nearest o’clock reading. Values are 1 through 12 (e.g., 12=Frontal collision, 3=passenger side (right) collision, etc.). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.

**eInjury.25 – ACN Incident Rollover**

Comment Change
Old: Based on Vehicular Emergency Data Set: Rollover. Indicates if the vehicle rolled over during the collision/event (e.g., True=Rollover, False=No Rollover). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.

New: Based on Vehicular Emergency Data Set: Rollover. Indicates if the vehicle rolled over during the collision/event (e.g., True=Rollover, False=No Rollover). Vehicular Emergency Data Set (VEDS) Recommendations. Version 3.0 Prepared: (February 2011) by the Advanced Automatic Crash Notification (AACN) Joint APCO/NENA Data Standardization Working Group.
# eMedications

## eMedication.06 – Medication Dosage Units
### Enumeration Code/Description Changes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description for eMedications.06</th>
<th>New Descriptors</th>
</tr>
</thead>
<tbody>
<tr>
<td>3706001</td>
<td>Grams</td>
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<td>Inches</td>
<td>Inches (in)</td>
</tr>
<tr>
<td>3706005</td>
<td>International Units</td>
<td>International Units (IU)</td>
</tr>
<tr>
<td>3706007</td>
<td>Keep Vein Open (To Keep Open)</td>
<td>Keep Vein Open (kvo)</td>
</tr>
<tr>
<td>3706009</td>
<td>Liters</td>
<td>Liters (l)</td>
</tr>
<tr>
<td>3706011</td>
<td>Liters Per Minute</td>
<td>Liters Per Minute (l/min [fluid])</td>
</tr>
<tr>
<td>3706013</td>
<td>MDI Puffs</td>
<td>Metered Dose (MDI)</td>
</tr>
<tr>
<td>3706015</td>
<td>Micrograms</td>
<td>Micrograms (mcg)</td>
</tr>
<tr>
<td>3706017</td>
<td>Micrograms per Kilogram per Minute</td>
<td>Micrograms per Kilogram per Minute (mcg/kg/min)</td>
</tr>
<tr>
<td>3706019</td>
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</tr>
<tr>
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<td>Milligrams</td>
<td>Milligrams (mg)</td>
</tr>
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<td>3706023</td>
<td>Milligrams Per Kilogram Per Minute</td>
<td>Milligrams per Kilogram Per Minute (mg/kg/min)</td>
</tr>
<tr>
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<td>Milliliters</td>
<td>Milliliters (ml)</td>
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<td>Milliliters Per Hour</td>
<td>Milliliters per Hour (ml/hr)</td>
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</tr>
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<td>NEW</td>
<td>Drops (gtts)</td>
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<tr>
<td>3706035</td>
<td>NEW</td>
<td>Liters Per Minute (LPM [gas])</td>
</tr>
<tr>
<td>3706037</td>
<td>NEW</td>
<td>Micrograms per Minute (mcg/min)</td>
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<td>Code</td>
<td>Description</td>
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<tr>
<td>3706039</td>
<td>New Milligrams per Kilogram (mg/kg)</td>
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<td>New Milligrams per Minute (mg/min)</td>
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</tr>
<tr>
<td>3706043</td>
<td>New Puffs</td>
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</tr>
<tr>
<td>3706045</td>
<td>New Units per Hour (units/hr)</td>
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</tr>
<tr>
<td>3706047</td>
<td>New Micrograms per Kilogram (mcg/kg)</td>
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</tr>
<tr>
<td>3706049</td>
<td>New Units</td>
<td></td>
</tr>
<tr>
<td>3706051</td>
<td>New Units per Kilogram per Hour (units/kg/hr)</td>
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</tr>
<tr>
<td>3706053</td>
<td>New Units per Kilogram (units/kg)</td>
<td></td>
</tr>
</tbody>
</table>
eOther

**eOther.09 - External Electronic Documents**

**Element Name Change**

Old: External Electronic Documents  
New: External Electronic Document Type

**Definition Change**

Old: Document types which have been electronically stored with PCR.  
New: Document type which has been electronically stored with PCR.

**Enumeration Code/Description Changes**

**Values Removed**

4509023 = Sound Recording

**Code/Description Changes**

Old: 4509001 = Audio Recording  
New: 4509001 = Other Audio Recording

Old: 4509013 = Healthcare Record  
New: 4509013 = Other Healthcare Record

Old: 4509015 = Other (Not Listed)  
New: 4509015 = Other

Old: 4509021 = Picture/Graphic  
New: 4509021 = Other Picture/Graphic

Old: 4509025 = Video/Movie  
New: 4509025 = Other Video/Movie

**eOther.13 Signature Reason**

**Recurrence Change**

Old: 0:1  
New: 0:M

**eOther.14 – Type Of Patient Representative**

**Enumeration Code/Description Changes**

Old: 4514041 = Relative (Not Listed)  
New: 4514041 = Other Relative
eOutcome

eOutcome.08 – Emergency Department Recorded Cause of Injury

Recurrence Change

Old: 0:1
New: 0:M
ePatient

ePatient.10 – Patient’s Home Country
Element Name Change

Old: Patient’s Home Country
New: Patient’s Country of Residence

ID Change

Old: ePatient.PatientsHomeCountry
New: ePatient.PatientsCountryOfResidence

ePatient.12 – Social Security Number
Data Type Change

Old: Integer
New: String

New: Pattern: [0-9]{9}

ePatient.18 – Patient’s Phone Number
Comment Change

Old: This element contains an attribute to define what type of phone number is being documented i.e. Fax, Home, Mobile, Pager, and Work.

New: This element contains an attribute to define what type of phone number is being documented (e.g., Fax, Home, Mobile, Pager, and Work).
ePayment

ePayment.10 – Insurance Company Name
Constraint Changes

**Old:** maxLength = 100
**New:** maxLength = 60

ePayment.13 – Insurance Company City
Comment Change

**Old:** City codes are based on GNIS Feature Class. The primary Feature Class to use is ""Civil"" with ""Populated Place"" and ""Military"" code as additional options.

Definitions for each GNIS City Feature Class can be found on the GNIS Codes website.

GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm

**New:** The city elements within the ePayment section have been updated to allow free text. This is important for mailing address purposes to submit claims and identify the correct payer.

ePayment.17 – Insurance Group ID/Name
Element Name Change

**Old:** Insurance Group ID/Name
**New:** Insurance Group ID

Definition Change

**Old:** The ID number or name of the patient's insurance group
**New:** The ID number of the patient's insurance group.

ePayment.27 – Closest Relative/Guardian City
Comment Change

**Old:** City codes are based on GNIS Feature Class. The primary Feature Class to use is ""Civil"" with ""Populated Place"" and ""Military"" code as additional options.

Definitions for each GNIS City Feature Class can be found on the GNIS Codes website.

GNIS Codes Website: http://geonames.usgs.gov/domestic/download_data.htm
New: The city elements within the ePayment section have been updated to allow free text. This is important for mailing address purposes to submit claims and identify the correct payer.

**ePayment.35 – Patient’s Employer’s City**

**Comment Change**

**Old:** City codes are based on GNIS Feature Class. The primary Feature Class to use is "Civil" with "Populated Place" and "Military" code as additional options.

Definitions for each GNIS City Feature Class can be found on the GNIS Codes website.

GNIS Codes Website: [http://geonames.usgs.gov/domestic/download_data.htm](http://geonames.usgs.gov/domestic/download_data.htm)

**New:** The city elements within the ePayment section have been updated to allow free text. This is important for mailing address purposes to submit claims and identify the correct payer.

**ePayment.45 – Round Trip Purpose**

**Description Change**

**Old:** Added to improve billing documentation for CMS X12 based transactions.

This element should be documented when ePayment.43 (Ambulance Transport Code) code = X (Round Trip).

Ambulance providers can use this field to provide additional information regarding the circumstances of a round trip transport or for other medical necessity documentation.

**New:** Added to improve billing documentation for CMS X12 based transactions.

Ambulance providers can use this field to provide additional information regarding the circumstances of a round trip transport or for other medical necessity documentation.

**ePayment.53 – Transport Authorization Code**

**Constraint Changes**

**Old:** maxLength = 52

**New:** maxLength = 50

**ePayment.56 – Number of Supply Item(s)**

**Comment Change**
Old: Associated with ePayment.56 (Supply Item Used Name). Used to better track supply items for billing
New: Associated with ePayment.55 (Supply Item Used Name). Used to better track supply items for billing.

NEW ELEMENT: ePayment.57 – Payer Type

Name: Payer Type
Definition: Payer type according to X12 standard.
Data Type: PayerType

National Element = No
State Element = No
Usage = Optional

Pertinent Negatives (PN) = No
NOT Values = No

Enumeration Code/Definition
11 = Other Non-Federal Programs
12 = Preferred Provider Organization (PPO)
13 = Point of Service (POS)
14 = Exclusive Provider Organization (EPO)
15 = Indemnity Insurance
16 = Health Maintenance Organization (HMO) Medicare Risk
17 = Dental Maintenance Organization
AM = Automobile Medical
BL = Blue Cross/Blue Shield
CH = Champus
CI = Commercial Insurance Co.
DS = Disability
FI = Federal Employees Program
HM = Health Maintenance Organization
LM = Liability Medical
MA = Medicare Part A
MB = Medicare Part B
MC = Medicaid
OF = Other Federal Program
TV = Title V
VA = Veteran Affairs Plan
WC = Workers' Compensation Health Claim
ZZ = Mutually Defined

Data Element Comment:
This element should only be used if Insurance, Medicare, Medicaid, Workers Compensation, or Other Government are selected in ePayment.01 - Primary Method of Payment.
NEW ELEMENT: ePayment.58 – Insurance Group Name

**Name:** Insurance Group Name

**Definition:** The name of the patient’s insurance group.

**Data Type:** InsuranceGroupName

**National Element** = No

**State Element** = No

**Usage** = Optional

**Pertinent Negatives (PN)** = No

**NOT Values** = No

**Constraints**

Data Type = String

minLength = 2

maxLength = 30

*Note: Element is found directly after ePayment.22*
eProcedures

**eProcedures.06 – Procedure Successful**

**Definition Change**

**Old:** Indicates that this procedure attempt which was performed on the patient was successful.

**New:** Indicates that this individual procedure attempt which was performed on the patient was successful.

**eProcedures.07 – Procedure Complication**

**Enumeration Code/Description Changes**

**Values Removed**

3907029 = Itching/Urticaria

3907037 = Portacath

**Values Added**

3907049 = Itching

3907051 = Urticaria

**eProcedures.13 – Vascular Access Location**

**Enumeration Code/Description Changes**

**Old:** 3913055 = Other Peripheral (Not Listed)

**New:** 3913055 = Other Peripheral

**Old:** 3913057 = Other Central (PICC, Portacath, Not Listed)

**New:** 3913057 = Other Central (PICC, Portacath, etc.)
eProtocols

**eProtocols.01 - Protocols Used**

**Value Changes or Additions**

See SimpleType: ProtocolsUsed for detailed list (pages 19-20).
**eRecord**

**eRecord.01 – Patient Care Report Number**

**Constraint Changes**

**Old:** maxLength = 32  
**New:** maxLength = 50
eResponse

eResponse.03 – Incident Number
Constraint Changes

Old: MaxLength = 32
New: MaxLength = 50

eResponse.04 – EMS Response Number
Constraint Changes

Old: MaxLength = 32
New: MaxLength = 50

eResponse.09 – Type of Response Delay
Enumeration Code/Description Changes

Old: 2209017 = Route Obstruction (e.g., train)
New: 220917 = Route Obstruction (e.g., Train)

eResponse.12 – Type of Turn-Around Delay
Comment Change

Old: Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc to return to service.

If a patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the patient arrived at the destination (eTimes.10) until the time the unit is back in service (eTimes.13) or unit back at the home location (eTimes.15) [whichever is the greater of the two times].

If no patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the unit arrived on scene (eTimes.06) until the unit is back in service (eTimes.13) or the unit back at the home location (eTimes.15) [whichever is the greater of the two times].

New: Rendezvous Transport Unavailable added for situations where there is a wait for an EMS Transport Unit, a Ferry, Air Medical, etc. to return to service.

If a patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the patient arrived at the destination (eTimes.11) until the time the unit is back in service (eTimes.13) or unit back at the home location (eTimes.15) [whichever is the greater of the two times].
If no patient is being transported by the unit, turn-around delay is any time delay that occurs from the time the unit arrived on scene (eTimes.06) until the unit is back in service (eTimes.13) or the unit back at the home location (eTimes.15) [whichever is the greater of the two times].

**eResponse.16 – Vehicle Dispatch Location**

**Definition Change**

**Old:** The EMS Location or healthcare facility name representing the geographic location of the vehicle at the time of dispatch.

**New:** The EMS location or healthcare facility representing the geographic location of the unit or crew at the time of dispatch.

**eResponse.18 – Vehicle Dispatch US National Grid Location**

**Element Name Change**

**Old:** Vehicle Dispatch US National Grid Location

**New:** Vehicle Dispatch Location US National Grid Coordinates
eScene

**eScene.14 – Mile Post or Major Roadway**

NOT Value Addition

7701005 = Not Reporting

Constraint Changes

- **Old**: minLength = 2
- **New**: minLength = 1

**eScene.15 – Incident Street Address**

NOT Value Addition

7701005 = Not Reporting

**eScene.16 – Incident Apartment, Suite, or Room**

NOT Value Addition

7701005 = Not Reporting
eSituation

eSituation.01 – Date/Time of Symptom Onset

Element Name Change

Old: Date/Time of Symptom Onset/Last Normal
New: Date/Time of Symptom Onset

Definition Change

Old: The date and time the symptom began as it relates to this EMS event. This is described or estimated by the patient, family, and/or healthcare professionals.

New: The date and time the symptom began (or was discovered) as it relates to this EMS event. This is described or estimated by the patient, family, and/or healthcare professionals.

Comment Change

Old: For stroke related events, this is the date and time the patient was last seen normal. For cardiac or respiratory arrest related events, this is the date and time the patient was last known to have a pulse or when interaction was had with the patient. For drowning related events, this is the date and time the patient was last seen. The intent of this element is to document the estimate date and time the patient was last known to be in their normal state.

New:

DateTime consists of finite-length characters of the form: yyyy '-' mm '-' dd 'T' hh ':' mm ':' ss ('.' s+)? (zzzzzz)

yyy a four-digit numeral that represents the year
'-' separators between parts of the date portion
mm a two-digit numeral that represents the month
dd a two-digit numeral that represents the day
T separator that indicates time-of-day follows
hh a two-digit numeral that represents the hour
':' a separator between parts of the time-of-day portion
mm a two-digit numeral that represents the minute
ss a two-integer-digit numeral that represents the whole seconds
'.' s+ (not required) represents the fractional seconds
zzzzzz (required) represents the timezone (as described below)

Timezones, required, are durations with (integer-valued) hour and minute properties in the form: ('+' | '-' ) hh ':' mm
NEW ELEMENT: eSituation.18 – Date/Time Last Known Well

**Definition:** The estimated date and time the patient was last known to be well or in their usual state of health. This is described or estimated by the patient, family, and/or bystanders.

**National Element** = No  
**State Element** = No  
**Usage** = Optional

**Pertinent Negatives (PN)** = No  
**NOT Values** = No  
**Is Nillable** = No  
**Recurrence** = 0:1

**Restrictions:** CommonType: DateTime

**Associated performance Measure Initiatives**  
Airway, Cardiac Arrest, Pediatric, STEMI Stroke, Trauma

**Data Element Comment:**  
For stroke related events, this is the date and time the patient was last seen normal. For cardiac or respiratory arrest related events, this is the date and time the patient was last known to have a pulse or when interaction was had with the patient. For drowning related events, this is the date and time the patient was last seen. For injury or trauma related events, this is the date and time the patient was injured.
eVitals

**eVitals.16 – Carbon Dioxide (CO2)**

**Name Change**

**Old:** Carbon Dioxide (CO2)
**New:** End Tidal Carbon Dioxide (ETCO2)

**Definition Change**

**Old:** The numeric value of the patient's end-tidal CO2 level.
**New:** The numeric value of the patient's exhaled end tidal carbon dioxide (ETCO2) level measured as a unit of pressure in millimeters of mercury (mmHg).

**Constraint Change**

**maxInclusive**
**Old:** 100
**New:** 200

**Data Element Comment**

**Old:** Generally the numeric CO2 level is measured in millimeters of mercury (mmHg). End-tidal is the same as exhaled.

**New:**

**eVitals.17 – Carbon Monoxide (CO)**

**Definition Change**

**Old:** The patient's carbon monoxide level measured in %COHb.

**New:** The numeric value of the patient’s carbon monoxide level measured as a percentage (%) of carboxyhemoglobin (COHb).

**NOT Value Addition**

7701005 = Not Reporting

**Constraint Changes**

**Data Type**

**Old:** integer
**New:** Decimal
**New:** Fractions = 1
**New:** Total Digits = 3

**Comment Change**

**Old:** Added to allow use of a new patient monitoring device  
**New:** Added to allow use of new patient monitoring devices.

**eVitals. 18 - Blood Glucose Level**

**Comment Addition**

**New:** For glucometers with "High" and "Low" readings, report "600" for "High" and "20" for "Low".
CAD

CAD – Elements Removed (9)
DEM DataSet Elements Removed (5)

eCad.01 - EMS Agency Unique State ID (dAgency.01)
eCad.02 - EMS Agency Number (dAgency.02)
eCad.03 - EMS Agency Name (dAgency.03)
eCad.04 - EMS Agency State (dAgency.04)
eCad.05 - Dispatch Center (CAD) Name or ID (dConfiguration.17)

EMS DataSet Elements Removed (4)

eCad.16 - Type of Scene Delay (eResponse.10)
eCad.17 - Type of Transport Delay (eResponse.11)
eCad.18 - Type of Turn-Around Delay (eResponse.12)
eCad.77 - Triage Classification for MCI Patient (eScene.08)

CAD – All Elements Made Optional
Element Usage Changes

Usage: Optional
MinOccurs: 0

Remove NOT Values (NV) Attribute
Removed xsi:nil="true"

Elements Affected (5)
eCad.07 - (eResponse.01) EMS Agency Number
eCad.08 - (eResponse.02) EMS Agency Name
eCad.09 - (eResponse.03) Incident Number
eCad.31 - (eDispatch.01) Complaint Reported by Dispatch
eCad.38 - (eTimes.03) Unit Notified by Dispatch Date/Time

CAD – EMS DataSet Elements Added
eCrew.CrewGroup

State = No
Usage = Optional
PN = No
NOT Values = No

0:M eCAD.CrewGroup (the 3 elements from eCrew)
eCad.110 - (eCrew.01) Crew Member ID
**eCad.111 - (eCrew.02) Crew Member Level**

**eCad.112 - (eCrew.03) Crew Member Response Role**

**eDisposition.12 - Incident/Patient Disposition**

CAD Element: eCad.113 - (eDisposition.12) Incident/Patient Disposition

- **State** = No
- **Usage** = Optional
- **PN** = No
- **NOT Values** = No

**eDispatch.06 - Unit Dispatched CAD Record ID**

CAD Element: eCad.114 - (eDispatch.06) Unit Dispatched CAD Record ID

- **Location**: between eCad.34 & eCad.36
- **State** = No
- **Usage** = Optional
- **PN** = No
- **NOT Values** = No

*Note: element is found directly after eCad.35*

**eCAD – (Grouping Tag)**

**Recurrence Changes**

- **Old**: 1:1
- **New**: 1:M

  eCustomResults moved from CADDataSet tag to eCAD tag

**eCad.06 – (eRecord.01) Patient Care Report Number**

**Constraint Changes**

- **Old**: maxLength = 32
- **New**: maxLength = 50

**eCad.09 – (eResponse.03) Incident Number**

**Constraint Changes**

- **Old**: MaxLength = 32
- **New**: MaxLength = 50
**eCad.10 – (eResponse.04) EMS Response Number**

**Constraint Changes**

**Old:** MaxLength = 32  
**New:** MaxLength = 50

**eCad.22 – (eResponse.16) Vehicle Dispatch Location**

**Definition Change**

**Old:** The EMS Location or healthcare facility name representing the geographic location of the vehicle at the time of dispatch.

**New:** The EMS location or healthcare facility representing the geographic location of the unit or crew at the time of dispatch.

**Comment Change:**

**Old:** This element can be populated from dLocation.02 EMS Location Name or dFacility information. Depending on the information the EMS Agency or State is interested in knowing the following elements can be utilized:
1. dLocation.02 EMS Location Name
2. dFacility.02 Facility Name
3. dFacility.03 Facility Code
4. dFacility.15 Facility GPS Location

**New:** This element can be populated from dLocation.02 EMS Location Name or dFacility information. Depending on the information the EMS Agency or State is interested in knowing the following elements can be utilized:
1. dLocation.02 EMS Location Name
2. dFacility.02 Facility Name
3. dFacility.03 Facility Code

**eCad.24 – (eResponse.18) Vehicle Dispatch US National Grid Location**

**Element Name Change**

**Old:** eCad.24 - (eResponse.18) Vehicle Dispatch US National Grid Location  
**New:** eCad.24 - (eResponse.18) Vehicle Dispatch Location US National Grid Coordinates

**ID Change**

**Old:** eCad.24 - (eResponse.18) Vehicle Dispatch US National Grid Location  
**New:** eCad.24 - (eResponse.18) Vehicle Dispatch Location US National Grid Coordinates

**eCad.35 – (eDispatch.05) Dispatch Priority (Patient Acuity)**

**Comment Change**
Old: The use of priority and acuity values vary by EMS agency. Some systems may utilize fewer than four priority levels and some more. The use of four priority levels is to capture the majority and allow for the inclusion of the NHTSA National EMS Core Content definitions for patient acuity, specifically: Critical, Emergent, and Lower Acuity.

Provided below is an example application only. This example bears no relationship to any particular federal, state, or agency billing requirement.

For EMS Agencies and CAD / EMD systems utilizing Alpha-Echo, Omega levels for determining the priority level for dispatch of the EMS unit, the recommended mapping is:

<table>
<thead>
<tr>
<th>Echo</th>
<th>Charlie</th>
<th>Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority 1</td>
<td>Priority 2</td>
<td>Priority 3</td>
</tr>
<tr>
<td>Delta</td>
<td>Bravo</td>
<td>Omega</td>
</tr>
<tr>
<td>Priority 1</td>
<td>Priority 2</td>
<td>Priority 4</td>
</tr>
</tbody>
</table>

Priority 1 is typically an emergent (lights and sirens) response
Priority 2 is typically an emergent response without the use lights and sirens
Priority 3 is typically a non-emergent response for nursing home, hospital-to-hospital transfers, etc.
Priority 4 is typically a scheduled response (scheduled transfer) or standby event


For Air Medical Transports the most appropriate values choices should be limited to two: Emergent (Priority 2) and Non-Emergent (Priority 4).

New: The use of acuity values vary by EMS agency. Some systems may utilize fewer than four levels and some more. The use of four levels is to capture the majority and allow for the inclusion of the NHTSA National EMS Core Content definitions for patient acuity, specifically: Critical, Emergent, and Lower Acuity.

Provided below is an example application only. This example bears no relationship to any particular federal, state, or agency billing requirement.

For EMS Agencies and CAD / EMD systems utilizing Alpha-Echo, Omega levels for determining the priority level for dispatch of the EMS unit, the recommended mapping is:

<table>
<thead>
<tr>
<th>Echo</th>
<th>Charlie</th>
<th>Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical</td>
<td>Emergent</td>
<td>Lower Acuity</td>
</tr>
</tbody>
</table>
Patient Acuity definitions related to "Critical, Emergent, and Lower Acuity" can be found in the National EMS Core Content document from NHTSA EMS (DOT HS 809-898 July 2005) at


For Air Medical Transports the most appropriate values choices should be limited to two: Emergent and Non-Acute.

**Enumeration Code/Description Change**

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>2305001 = Priority 1 (Critical)</td>
<td>2305001 = Critical</td>
</tr>
<tr>
<td>2305003 = Priority 2 (Emergent)</td>
<td>2305003 = Emergent</td>
</tr>
<tr>
<td>2305005 = Priority 3 (Lower Acuity)</td>
<td>2305005 = Lower Acuity</td>
</tr>
<tr>
<td>2305007 = Priority 4 (Non-Acute [e.g. Scheduled Transfer or Standby])</td>
<td>2305007 = Non-Acute (e.g., Scheduled Transfer or Standby)</td>
</tr>
</tbody>
</table>

**eCad.53 – (ePatient.02) Last Name**

Comment Removed

**eCad.54 – (ePatient.02) First Name**

Comment Removed

**eCad.83 – (eScene.14) Mile Post or Major Roadway**

Constraint Changes

<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>minLength = 2</td>
<td>minLength = 1</td>
</tr>
</tbody>
</table>

**eCad.94 – (eDisposition.02) Destination Transferred To, Code**

Comment Change

**Old**: May be populated from list in dFacility.03 (Facility Location Code) or dFacility.05 (Facility National Provider Identifier) if a health care facility. NPI codes can be found on the NEMSIS SharePoint site.
New: May be populated from list in dFacility.03 (Facility Location Code) or dFacility.05 (Facility National Provider Identifier) if a health care facility.

**eCad.102 – (eDisposition.10) Disposition Location US National Grid Coordinates**

**Element Name Change**

**Old:** Disposition Location US National Grid Coordinates  
**New:** Destination Location US National Grid Coordinates

**ID Change**

**Old:** DispositionLocationUSNationalGridCoordinates  
**New:** DestinationLocationUSNationalGridCoordinates

**Definition Change**

**Old:** The US National Grid Coordinates for the Disposition Location. This may be the Healthcare Facility US National Grid Coordinates.  
**New:** The US National Grid Coordinates for the Destination Location. This may be the Healthcare Facility US National Grid Coordinates.

**eCad.107 – (eDisposition.21) Type of Destination**

**Comment Change**

**Old:** Required if Patient Transported by EMS. "Hospital-Non-Emergency Department Bed" includes any location in the hospital except the Emergency Department. Choices include those in eDisposition.22 (Hospital In-Patient Destination).  
**New:** Required if Patient Transported by EMS.
MED Device

MED Device – Elements Removed (13)
DEM DataSet Elements Removed (9)

  eMedDevice.01 - (dAgency.01) EMS Agency Unique State ID
  eMedDevice.02 - (dAgency.02) EMS Agency Number
  eMedDevice.03 - (dAgency.03) EMS Agency Name
  eMedDevice.04 - (dAgency.04) EMS Agency State
  eMedDevice.05 - (dDevice.01) Medical Device Serial Number
  eMedDevice.06 - (dDevice.02) Medical Device Name or ID
  eMedDevice.07 - (dDevice.03) Medical Device Type
  eMedDevice.08 - (dDevice.04) Medical Device Manufacturer
  eMedDevice.09 - (dDevice.05) Medical Device Model Number

EMS DataSet Elements Removed (4)

  eMedDevice.01 - (ePatient.17) Date of Birth
  eMedDevice.CardiacRhythmGroup (3):
    eMedDevice.20 - (eVitals.03) Cardiac Rhythm / Electrocardiography (ECG)
    eMedDevice.21 - (eVitals.04) ECG Type
    eMedDevice.22 - (eVitals.05) Method of ECG Interpretation

MED Device – All Elements Made Optional

Element Usage Changes

  Usage: Optional
  MinOccurs: 0

Elements Affected
  eMedDevice.10 - (eRecord.01) Patient Care Report Number

eMedDevice.10 – (eRecord.01) Patient Care Report Number

Constraint Changes

  Old: maxLength = 32
  New: maxLength = 50

eMedDevice.31 – (eVitals.16) Carbon Dioxide (CO2)

Name Change

  Old: Carbon Dioxide (CO2)
  New: End Tidal Carbon Dioxide (ETCO2)
Definition Change

**Old:** The numeric value of the patient's end-tidal CO2 level.

**New:** The numeric value of the patient’s exhaled end tidal carbon dioxide (ETCO2) level measured as a unit of pressure in millimeters of mercury (mmHg).

Constraints Changes:

1) **DataType = Integer**
2) **minInclusive = 0**
3) **maxInclusive = 200**

Comment Change:

**Old:** Generally the numeric CO2 level is measured in millimeters of mercury (mmHg). End-tidal is the same as exhaled.

**New:**

eMedDevice.32 – (eVitals.17) Carbon Monoxide (CO)

Definition Change

**Old:** The patient's carbon monoxide level measured in %COHb.

**New:** The numeric value of the patient’s carbon monoxide level measured as a percentage (%) of carboxyhemoglobin (COHb).

Constraint Changes

**Data Type**

**Old:** integer
**New:** Decimal

**New:** Fractions = 1
**New:** Total Digits = 3

Comment Change

**Old:** Added to allow use of a new patient monitoring device
**New:** Added to allow use of new patient monitoring devices.