Overview

This change log, dated October 31, 2011, characterizes revisions made to the NEMSIS Version 3.1.0 Dataset Official Release since the September 27, 2011 NEMSIS Version 3.0.5 Implementation Release.

Changes History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Comments</th>
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<tbody>
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<td>3.1.0</td>
<td>Oct 31, 2011</td>
<td>Elements were added, removed or replaced. Elements may have shifted down in the numbering order and the codes associated with the value descriptions may have changed. Codes and descriptions have been added, removed, or edited for multiple elements. Details on pages 7-17. Updates have been made to elements related to: name change, definition change, state element, usage, comment edits or additions, NOT values, Nil attribute, data type, v2 number reference, number change, and constraints (minLength &amp; maxLength, pattern, recurrence, maxValue, data type, base type)</td>
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**New elements added:**
- dPersonnel.28 EMS Personnel's National Registry Number
- dPersonnel.30 EMS Personnel's Current National Registry Expiration Date
- eDispatch.05 Dispatch Priority (Patient Acuity)
- eResponse.15 Level of Care of This Unit
- eScene.08 Triage Classification for MCI Patient

**Elements removed or replaced:**
- dPersonnel.28 - National Registry Credentialed
- dPersonnel.30 - National Registry Certification Date
## Version 3.1.0  Date  October 31, 2011

<table>
<thead>
<tr>
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New Elements
dPersonnel
dPersonnel.28 – (New Element)

**Name:** EMS Personnel’s National Registry Number

**Definition:** The National Registry number associated with the level of certification/licensure obtained through NREMT.

**Data Type:** DateType

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**Constraints:**

**Pattern**
[A-Z][A-Z0-9][0-9]{6}

(This element replaces “dPersonnel.28 - National Registry Credentialed”.)

dPersonnel.30 – (New Element)

**Name:** EMS Personnel’s Current National Registry Expiration Date

**Definition:** The date on which the EMS Personnel’s National Registry of EMTs certification/licensure expires

**Data Type:** DateType

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<td>Usage</td>
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**Constraints:**

**Data Type** date  
**minValue** 1900-01-01  
**maxValue** 2050-01-01

(This element replaces “dPersonnel.30 - National Registry Certification Date”.)
eDispatch
eDispatch.05 – (New Element)

Name: Dispatch Priority (Patient Acuity)
Definition: The actual, apparent, or potential acuity of the patient’s condition as determined through information obtained during the EMD process.
Data Type: DispatchPriority

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

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.

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>
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<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>
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</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

**eResponse.15** – *(New Element)*

Name: Level of Care of This Unit  
Definition: The Level of care (BLS or ALS) the unit is able to provide based on the unit’s treatment capabilities for this EMS response.  
Data Type: Unit Level of Care

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<td>2215003</td>
<td>BLS-Basic /EMT</td>
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<tr>
<td>2215005</td>
<td>BLS-AEMT</td>
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<td>2215007</td>
<td>BLS-Intermediate</td>
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<td>2215011</td>
<td>ALS-Intermediate</td>
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<td>ALS-Physician</td>
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eScene

**eScene.08 – (New Element)**

**Name:** Triage Classification for MCI Patient  
**Definition:** The color associated with the initial triage assessment/classification of the MCI patient.  
**Data Type:** TriageClassification

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<td>2708003</td>
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<tr>
<td>2708005</td>
<td>Green – Minimal (Minor)</td>
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<tr>
<td>2708007</td>
<td>Gray – Expectant</td>
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<tr>
<td>2708008</td>
<td>Black - Deceased</td>
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## Codes Added

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<th>Element Description</th>
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<td>Vehicular, Pedestrian, or Other Injury Risk Factor</td>
<td>2904011</td>
<td>Crash Intrusion: &gt; 12 in. occupant site; &gt; 18 in. any site</td>
</tr>
<tr>
<td>eInjury.04</td>
<td>Vehicular, Pedestrian, or Other Injury Risk Factor</td>
<td>2904013</td>
<td>Crash Vehicle Telemetry Data (AACN) Consistent with High Risk of Injury</td>
</tr>
<tr>
<td>eInjury.04</td>
<td>Vehicular, Pedestrian, or Other Injury Risk Factor</td>
<td>2904003</td>
<td>Fall Adults: &gt; 20 ft. (one story is equal to 10 ft.)</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Value</td>
<td>Description</td>
</tr>
<tr>
<td>---------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>eInjury.04</td>
<td>Vehicular, Pedestrian, or Other Injury Risk Factor</td>
<td>2904005</td>
<td>Fall Children: &gt; 10 ft. or 2-3 times the height of the child</td>
</tr>
<tr>
<td>eMedications.06</td>
<td>Medication Dosage Units</td>
<td>3706001</td>
<td>Grams</td>
</tr>
<tr>
<td>eMedications.10</td>
<td>Role of Person Administering Medication</td>
<td>9905031</td>
<td>Critical Care Paramedic</td>
</tr>
<tr>
<td>eMedications.10</td>
<td>Role of Person Administering Medication</td>
<td>9905033</td>
<td>Community Paramedicine</td>
</tr>
<tr>
<td>eMedications.10</td>
<td>Role of Person Administering Medication</td>
<td>9905023</td>
<td>Patient/Lay Person</td>
</tr>
<tr>
<td>eOther.13</td>
<td>Signature Reason</td>
<td>4513003</td>
<td>Permission to Treat</td>
</tr>
<tr>
<td>eOther.13</td>
<td>Signature Reason</td>
<td>4513001</td>
<td>HIPAA acknowledgement/Release</td>
</tr>
<tr>
<td>eOther.13</td>
<td>Signature Reason</td>
<td>4513007</td>
<td>Transfer of Patient Care</td>
</tr>
<tr>
<td>eOther.13</td>
<td>Signature Reason</td>
<td>4513005</td>
<td>Release for Billing</td>
</tr>
<tr>
<td>ePayment.52</td>
<td>CMS Transportation Indicator</td>
<td>D2</td>
<td>Rare Circumstances, Traffic Patterns Precludes Ground Transport</td>
</tr>
<tr>
<td>eProcedures.10</td>
<td>Role of Person Performing the Procedure</td>
<td>9905023</td>
<td>Patient/Lay Person</td>
</tr>
<tr>
<td>eProcedures.10</td>
<td>Role of Person Performing the Procedure</td>
<td>9905033</td>
<td>Community Paramedicine</td>
</tr>
<tr>
<td>eProcedures.10</td>
<td>Role of Person Performing the Procedure</td>
<td>9905031</td>
<td>Critical Care Paramedic</td>
</tr>
<tr>
<td>eProtocols.01</td>
<td>Protocols Used</td>
<td>9914055</td>
<td>General-Cardiac Arrest</td>
</tr>
<tr>
<td>eResponse.07</td>
<td>Primary Role of the Unit</td>
<td>2207005</td>
<td>Non-Transport Administrative (e.g., Supervisor)</td>
</tr>
<tr>
<td>eResponse.07</td>
<td>Primary Role of the Unit</td>
<td>2207007</td>
<td>Non-Transport Assistance</td>
</tr>
<tr>
<td>eResponse.07</td>
<td>Primary Role of the Unit</td>
<td>2207009</td>
<td>Non-Transport Rescue</td>
</tr>
<tr>
<td>eResponse.08</td>
<td>Type of Dispatch Delay</td>
<td>2208003</td>
<td>Diversion/Failure (of previous unit)</td>
</tr>
<tr>
<td>eResponse.09</td>
<td>Type of Response Delay</td>
<td>2209015</td>
<td>Rendezvous Transport Unavailable</td>
</tr>
<tr>
<td>eResponse.09</td>
<td>Type of Response Delay</td>
<td>2209017</td>
<td>Route Obstruction (e.g., train)</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210031</td>
<td>Triage/Multiple Patients</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210025</td>
<td>Safety-Patient</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210021</td>
<td>Patient Access</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210011</td>
<td>Extrication</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210001</td>
<td>Awaiting Air Unit</td>
</tr>
<tr>
<td>eResponse.10</td>
<td>Type of Scene Delay</td>
<td>2210003</td>
<td>Awaiting Ground Unit</td>
</tr>
<tr>
<td>eResponse.11</td>
<td>Type of Transport Delay</td>
<td>2211017</td>
<td>Route Obstruction (e.g., Train)</td>
</tr>
<tr>
<td>eResponse.11</td>
<td>Type of Transport Delay</td>
<td>2211015</td>
<td>Rendezvous Transport Unavailable</td>
</tr>
<tr>
<td>eResponse.12</td>
<td>Type of Turn-Around Delay</td>
<td>2212019</td>
<td>Rendezvous Transport Unavailable</td>
</tr>
<tr>
<td>eResponse.12</td>
<td>Type of Turn-Around Delay</td>
<td>2212021</td>
<td>Route Obstruction (e.g. Train)</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215009</td>
<td>ALS-AEMT</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215015</td>
<td>ALS-Community Paramedicine</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215011</td>
<td>ALS-Intermediate</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215017</td>
<td>ALS-Nurse</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215013</td>
<td>ALS-Paramedic</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215019</td>
<td>ALS-Physician</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215005</td>
<td>BLS-AEMT</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215003</td>
<td>BLS-Basic/EMT</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215001</td>
<td>BLS-First Responder/EMR</td>
</tr>
<tr>
<td>eResponse.15</td>
<td>Level of Care of This Unit</td>
<td>2215007</td>
<td>BLS-Intermediate</td>
</tr>
<tr>
<td>eScene.08</td>
<td>Triage Classification for MCI Patient</td>
<td>2708009</td>
<td>Black - Deceased</td>
</tr>
<tr>
<td>eScene.08</td>
<td>Triage Classification for MCI Patient</td>
<td>2708007</td>
<td>Gray - Expectant</td>
</tr>
<tr>
<td>eScene.08</td>
<td>Triage Classification for MCI Patient</td>
<td>2708005</td>
<td>Green - Minimal (Minor)</td>
</tr>
<tr>
<td>eScene.08</td>
<td>Triage Classification for MCI Patient</td>
<td>2708001</td>
<td>Red - Immediate</td>
</tr>
<tr>
<td>eScene.08</td>
<td>Triage Classification for MCI Patient</td>
<td>2708003</td>
<td>Yellow - Delayed</td>
</tr>
<tr>
<td>eSituation.08</td>
<td>Chief Complaint Organ System</td>
<td>2808001</td>
<td>Behavioral/Psychiatric</td>
</tr>
<tr>
<td>eSituation.13</td>
<td>Initial Patient Acuity</td>
<td>2813001</td>
<td>Critical (Red)</td>
</tr>
<tr>
<td>eSituation.13</td>
<td>Initial Patient Acuity</td>
<td>2813005</td>
<td>Lower Acuity (Green)</td>
</tr>
<tr>
<td>eSituation.13</td>
<td>Initial Patient Acuity</td>
<td>2813003</td>
<td>Emergent (Yellow)</td>
</tr>
<tr>
<td>eSituation.13</td>
<td>Initial Patient Acuity</td>
<td>2813007</td>
<td>Dead without Resuscitation Efforts (Black)</td>
</tr>
</tbody>
</table>
General –
Added two (2) certification levels to the following elements and an additional / new comment:

dAgency.11 - Level of Service
dConfiguration.02 - State Certification Licensure Levels
dConfiguration.06 - EMS Certification Levels Permitted to Perform Each Procedure
dConfiguration.08 - EMS Certification Level Permitted to Administer Each Medication
dPersonnel.24 - EMS Personnel's State EMS Certification Licensure Level
dPersonnel.38 - EMS Professional's Practice Level
eCrew.02 - Crew Member Level
eMedications.10 - Role/Type of Person Administering Medication
eProcedures.10 - Role/Type of Person Performing the Procedure
- Value Descriptions Added:
  • Critical Care Paramedic
  • Community Paramedic
  ** Please note the codes may vary for many of these elements.
- Comment Addition: The category EMT-Intermediate includes EMS professionals with an “85” or “99” certification level.

Added one (1) type of service to the following two demographic elements:

dAgency.09 - Primary Type of Service
dAgency.10 - Other Types of Service
- Value Description Added:
  • Community Paramedicine

dAgency

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

dAgency.03 - EMS Agency Name
- Max Length Change
  Old: 50
  New: 100

dAgency.08 - EMS Agency Service Area ZIP Codes
Usage Change
  Old: Mandatory
  New: Required
- NOT Attribute Added
- Nil Attribute Added

dAgency.10 - Other Types of Service
- Data Type Change
  Old: OtherTypesOfService
  New: TypeOfService
dAgency.16 - Total Primary Service Size Area
- Name Change
  Old: Total Primary Service Size Area
  New: Total Primary Service Area Size
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.17 - Total Service Area Population
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.18 - 911 EMS Call Center Volume per Year
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.19 - EMS Dispatch Volume per Year
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.20 - EMS Patient Transport Volume per Year
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.21 - EMS Patient Contact Volume per Year
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.22 - EMS Billable Calls per Year
- Max Value Change
  Old: 1000000
  New: 4000000

dAgency.25 - National Provider Identifier
- Max Recurrence Change
  Old: 1
  New: M

dAgency.26 - Fire Department ID Number
- Max Recurrence Change
  Old: 1
  New: M
**dConfiguration**

Comments added to the following elements:

- **dConfiguration.01 - State Associated with the Certification/Licensure Levels**
- **dConfiguration.02 - State Certification Licensure Levels**
  - Comment Addition:
    The state EMS system does not need to import this information into their database. Reference the Demographic Dataset Submission Guide for further details.

- **dConfiguration.03 - Procedures Permitted by the State**
- **dConfiguration.04 - Medications Permitted by the State**
- **dConfiguration.05 - Protocols Permitted by the State**
  - Comment Addition:
    The EMS agency should submit “Not Applicable” and “Nil” to the state system for the demographic export. The state EMS system does not need to import this information into their database. It is the responsibility of the state to submit this element to the national EMS database (NEMSIS). Reference the Demographic Dataset Submission Guide for further details.

- **dConfiguration.04 - Medications Permitted by the State**
  - Base Type Change
    - Old: positiveInteger
    - New: string
  - Max Length Change
    - Old: 7
    - New: 2

- **dConfiguration.09 - EMS Agency Medications**
  - Base Type Change
    - Old: positiveInteger
    - New: string
  - Max Length Change
    - Old: 7
    - New: 2

- **dConfiguration.14 - EMD Vendor**
  - Max Length Change
    - Old: 255
    - New: 100
  - Min Length Change
    - Old: 3
    - New: 2
dConfiguration.17 - Dispatch Center (CAD) Name or ID
- Max Recurrence Change
  Old: 1
  New: M

dContact
dContact.03 - Agency Contact First Name
- Max Length Change
  Old: 35
  New: 50

dContact.04 - Agency Contact Middle Name/Initial
- Max Length Change
  Old: 25
  New: 50

dContact.05 - Agency Contact Address
- Min Length Change
  Old: 2
  New: 1

dDevice
dDevice.02 - Device Name or ID
- Name Change
  Old: Device Name or ID
  New: Medical Device Name or ID

dDevice.04 - Device Manufacturer
- Name Change
  Old: Device Manufacturer
  New: Medical Device Manufacturer

dDevice.05 - Model Number
- Name Change
  Old: Model Number
  New: Medical Device Model Number

dDevice.06 - Device Purchase Date
- Name Change
  Old: Device Purchase Date
  New: Medical Device Purchase Date
**dFacility**

**dFacility.01 - Type of Facility**
- v2 Number Change
  - **Old:**
  - **New:** D04_15

**dFacility.02 - Facility Name**
- v2 Number Change
  - **Old:**
  - **New:** D04_11
- Max Length Change
  - **Old:** 60
  - **New:** 100

**dFacility.03 - Facility Location Code**
- v2 Number Change
  - **Old:**
  - **New:** D04_12

**dFacility.04 - Hospital Designations**
- Max Recurrence Change
  - **Old:** 1
  - **New:** M

**dFacility.06 - Facility Room, Suite, or Apartment**
- XSD Number Change
  - **Old:** eScene.06
  - **New:** dFacility.06
- Definition Change
  - **Old:** The number of the specific room, suite, or apartment.
  - **New:** The number of the specific room, suite, or apartment of the facility.

**dFacility.07 - Facility Street Address**
- Min Length Change
  - **Old:** 2
  - **New:** 1

**dLocation**

**dLocation.02 - EMS Location Name**
- Max Length Change
  - **Old:** 50
  - **New:** 100

**dLocation.06 - EMS Location Address**
- Min Length Change
  - **Old:** 2
  - **New:** 1
dPersonnel

- dPersonnel.01 - EMS Personnel's Last Name
  - State Element Change
    - Old: No
    - New: Yes
  - Usage Change
    - Old: Optional
    - New: Recommended
  - NOT Attributes Added
  - Nil Attribute Added

- dPersonnel.02 - EMS Personnel's First Name
  - State Element Change
    - Old: No
    - New: Yes
  - Usage Change
    - Old: Optional
    - New: Recommended
  - NOT Attributes Added
  - Nil Attribute Added
  - Max Length Change
    - Old: 35
    - New: 50

- dPersonnel.03 - EMS Personnel's Middle Name/Initial
  - State Element Change
    - Old: No
    - New: Yes
  - Usage Change
    - Old: Optional
    - New: Recommended
  - NOT Attributes Added
  - Nil Attribute Added
  - Max Length Change
    - Old: 25
    - New: 50

- dPersonnel.04 - EMS Personnel's Mailing Address
  - Min Length Change
    - Old: 2
    - New: 1

- dPersonnel.28 - National Registry Credentialed
  - Name Change
    - Old: National Registry Credentialed
    - New: EMS Personnel's National Registry Number
  - Definition Change
Old: Indication of a current National Registry Credential for the level of certification/licensure in (dPersonnel.27) as of the date of the State's EMS current certification date (dPersonnel.28).

New: The National Registry number associated with the level of certification/licensure obtained through NREMT

dPersonnel.29 - National Registry Certification Level
- Comment Addition
  Old:
  New: The category EMT-Intermediate includes EMS professionals with an “85” or “99” certification level.

dPersonnel.30 - National Registry Certification Date
- Name Change
  Old: National Registry Certification Date
  New: EMS Personnel’s Current National Registry Expiration Date
- Definition Change
  Old: The date of the current National Registry of Emergency Medical Technicians (NREMT) certification.
  New: The date on which the EMS Personnel’s National Registry of EMTs certification/licensure expires

dPersonnel.31 - EMS Personnel's Employment Status
- Definition Change
  Old: The personnel's employment status for this agency.
  New: The personnel's primary employment status for this agency.

dPersonnel.34 - EMS Personnel's Primary EMS Job Role
- Data Type Change
  Old: PrimaryJobRole
  New: JobResponsibilities

dVehicle

dVehicle.01 - Unit/Vehicle Number
- Max Length Change
  Old: 50
  New: 25
- Min Length Change
  Old: 2
  New: 1

dVehicle.03 - EMS Unit Call Sign
- Max Length Change
  Old: 17
  New: 50
eAirway

eAirway.05 - Tube Depth
- Definition Change
  
**Old:** The measurement at the lip of the tube depth in centimeters (cm) of the invasive airway placed.

**New:** The measurement at the patient's teeth/lip of the tube depth in centimeters (cm) of the invasive airway placed.

- Max Value Change
  
**Old:** 30

**New:** 32

eArrest

Comments added to the following elements:

eArrest.01 - Cardiac Arrest

- Comment Addition:
  
This element is a component of the Utstein Cardiac Arrest Criteria.

eArrest.03 - Resuscitation Attempted By EMS

eArrest.04 - Arrest Witnessed By

eArrest.05 - CPR Care Provided Prior to EMS Arrival

eArrest.06 - Who Provided CPR Prior to EMS Arrival

eArrest.07 - AED Use Prior to EMS Arrival

eArrest.08 - Who Used AED Prior to EMS Arrival

eArrest.11 - First Monitored Arrest Rhythm of the Patient

eArrest.12 - Any Return of Spontaneous Circulation

eArrest.13 - Neurological Outcome at Hospital Discharge

eArrest.14 - Date/Time of Cardiac Arrest

eArrest.18 - End of EMS Cardiac Arrest Event
- Comment Addition:
  
This element is a component of the Utstein Cardiac Arrest Criteria as identified in the American Heart Association journal "Resuscitation" from 2004 entitled "Cardiac Arrest and Cardiopulmonary Resuscitation Outcome Reports".

http://circ.ahajournals.org/cgi/content/full/110/21/3385

- Definition Change

**Old:** Documentation of who performed CPR prior to EMS arrival.

**New:** Documentation of who performed CPR prior to this EMS unit's arrival.

- Definition Change

**Old:** Documentation of who used the AED prior to EMS arrival

**New:** Documentation of who performed CPR prior to this EMS unit's arrival.
eArrest.12 - Any Return of Spontaneous Circulation
- Definition Change
  Old: Indication whether or not there was any return of spontaneous circulation
  New: Indication whether or not there was any return of spontaneous circulation.
- Comment Addition
  Old:
  New: This element is component of the Utstein Cardiac Arrest Criteria as identified in the American Heart Association journal "Resuscitation" from 2004 entitled "Cardiac Arrest and Cardiopulmonary Resuscitation Outcome Reports".
  http://circ.ahajournals.org/cgi/content/full/110/21/3385

eArrest.12 - Any Return of Spontaneous Circulation
- Comment Change
  Old:
  This element needs to be documented when the patient has been in cardiac or respiratory arrest and transported to a healthcare facility to show the change in patient condition, if any. The cardiac rhythm list has been updated to be the same for eVitals.03 (Cardiac Rhythm and Electrocardiography). They are using the common type: CardiacRhythm. ST segment changes consistent (or not consistent) with STEMI criteria should be documented as Ischemia in the appropriate location
  New:
  This element needs to be documented when the patient has been in cardiac or respiratory arrest and transported to a healthcare facility to show the change in patient condition, if any. The cardiac rhythm list has been updated to be the same for eVitals.03 (Cardiac Rhythm Electrocardiography (ECG)). They are using the common type: CardiacRhythm. ST segment changes consistent (or not consistent) with STEMI criteria should be documented as Ischemia in the appropriate location

eCrew
eCrew.02 - Crew Member Level
- Definition Change
  Old: The functioning level of the crew member ID during this EMS patient encounter.
  New: The functioning level of the crew member ID during this EMS patient encounter.

eDevice
eDevice.01 - Device Serial Number
- Name Change
  Old: Device Serial Number
  New: Medical Device Serial Number

eDevice.02 - Date/Time of Event
- Name Change
  Old: Date/Time of Event
  New: Date/Time of Event (per Medical Device)
eDevice.03 - Medical Device Event Name
- Name Change
  Old: Medical Device Event Name
  New: Medical Device Event Type

eDevice.04 - Waveform Graphic Type
- Name Change
  Old: Waveform Graphic Type
  New: Medical Device Waveform Graphic Type

eDevice.05 - Waveform Graphic
- Name Change
  Old: Waveform Graphic
  New: Medical Device Waveform Graphic

eDevice.06 - AED Pacing or CO2 Mode
- Name Change
  Old: AED Pacing or CO2 Mode
  New: Medical Device Mode (Manual, AED, Pacing, CO2, O2, etc)
- v2 Number Change
  Old:
  New: E21_05

eDevice.07 - ECG Lead
- Name Change
  Old: ECG Lead
  New: Medical Device ECG Lead

eDevice.08 - ECG Interpretation
- Name Change
  Old: ECG Interpretation
  New: Medical Device ECG Interpretation

eDispatch
eDispatch.04 - Computer Aided Dispatch (CAD) Name or ID
- Name Change
  Old: Computer Aided Dispatch (CAD) Name or ID
  New: Dispatch Center Name or ID

eDisposition
eDisposition.01 - Destination/Transferred To, Name
- Max Length Change
  Old: 60
  New: 100
eDisposition.03 - Destination Street Address
- Min Length Change
  Old: 2
  New: 1

eDisposition.12 - Incident/Patient Disposition
- Definition Change
  Old: Type of disposition treatment and/or transport of the patient_
  New: Type of disposition treatment and/or transport of the patient by this EMS Unit.

eDisposition.18 - Additional Transport Mode Descriptors
- Definition Change
  Old: Indication whether or not lights and/or sirens were used on the vehicle while leaving scene
  New: The documentation of transport mode techniques for this EMS response.

eExam

eExam.03 - Date/Time of Assessment
- State Element Change
  Old: Yes
  New: No
- Usage Change
  Old: Recommended
  New: Optional
- Removed NOT Values
- Removed Nil Attribute
- Min Recurrence Change
  Old: 1
  New: 0

eExam.10 - Abdominal Exam Finding Location
- Name Change
  Old: Abdominal Exam Finding Location
  New: Abdominal Assessment Finding Location

eExam.12 - Pelvis/Genitourinary Assessment
- v2 Number Change
  Old: E16_14
  New: E16_13

eExam.20 - Neurological Assessment
- v2 Number Change
  Old: E16_20
  New: E16_24

eHistory

eHistory.02 - Last Name of Patient's Primary Practitioner
- Name Change
Old: Last Name of Patient's Primary Practitioner  
New: Last Name of Patient's Practitioner  
- Definition Change  
  Old: The last name of the patient's primary practitioner  
  New: The last name of the patient's practitioner  

_eHistory.03 - First Name of Patient's Primary Practitioner_
- Name Change  
  Old: First Name of Patient's Primary Practitioner  
  New: First Name of Patient's Practitioner  
- Definition Change  
  Old: The first name of the patient's primary practitioner.  
  New: The first name of the patient's practitioner.  
- Max Length Change  
  Old: 35  
  New: 50  

_eHistory.04 - Middle Name/Initial of Patient's Primary Practitioner_
- Name Change  
  Old: Middle Name/Initial of Patient's Primary Practitioner  
  New: Middle Name/Initial of Patient's Practitioner  
- Definition Change  
  Old: The middle name or initial of the patient's primary practitioner.  
  New: The middle name or initial of the patient's practitioner.  
- Max Length Change  
  Old: 25  
  New: 50  

_eHistory.06 - Medication Allergies_
- Data Type Change  
  Old: Medication  
  New: MedicationAllergies  
- Base Type Change  
  Old: positiveInteger  
  New: string  
- Pattern Added  
  Z88\([0-9]\)?|Z91.041  

_eHistory.08 - Medical/Surgical History_
- State Element Change  
  Old: No  
  New: Yes  
- Usage Change  
  Old: Optional  
  New: Recommended  
- NOT Attributes Added  
- Nil Attribute Added
eHistory.12 - Current Medications
- Base Type Change
  Old: positiveInteger
  New: string
- Max Length Change
  Old: 7
  New: 7
- Min Length Change
  Old: 2
  New: 2

eInjury
eInjury.01 - Cause of Injury
- Max Recurrence Change
  Old: 1
  New: M

eInjury.09 - Height of Fall (feet)
- Min Value Change
  Old: 3
  New: 0

eInjury.22 - ACN Incident Delta Velocity
Constraints change:
  Old: string; minLength= 0; maxLength = 999
  New: integer; minValue = 0; maxValue = 999

eMedications
eMedications.03 - Medication Given
- Base Type Change
  Old: positiveInteger
  New: string
- Max Length Change
  Old: 7
  New: 7
- Min Length Change
  Old: 2
  New: 2

eMedications.10 - EMS or Healthcare Professional Type Administering Medication
- Name Change
  Old: EMS or Healthcare Professional Type Administering Medication
  New: Role/Type of Person Administering Medication

eOther
eOther.13 - Signature Reason
- Changed to enumerated list
**eOther.18 - Signature Graphic**
- Data Type Change
  - **Old:** base64Binary
  - **New:** Graphic
- Base Type Change
  - **Old:** anySimpleType
  - **New:** base64Binary

**eOther.21 - Signature First Name**
- Max Length Change
  - **Old:** 35
  - **New:** 50

**eOutcome**
**eOutcome.08 - Emergency Department Recorded Cause of Injury**
- Data Type Change
  - **Old:** icd10Code
  - **New:** icd10CodeInjury
- Pattern Change
  - **Old:** `[A-Z]{1}[0-9]{2}(.[A-Za-z0-9]{1,4})?`  
  - **New:** `[S-T]{1}[0-9]{2}(.[A-Za-z0-9]{1,4})?|[V-Y]{1}[0-9]{2}(.[A-Za-z0-9]{1,4})?`

**ePatient**
**ePatient.03 - First Name**
- Max Length Change
  - **Old:** 35
  - **New:** 50

**ePatient.04 - Middle Initial/Name**
- Max Length Change
  - **Old:** 25
  - **New:** 50

**ePatient.05 - Patient's Home Address**
- Min Length Change
  - **Old:** 2
  - **New:** 1

**ePatient.17 - Date of Birth**
- State Element Change
  - **Old:** No
  - **New:** Yes
- Usage Change
  - **Old:** Optional
  - **New:** Recommended
- Added Pertinent Negatives
- NOT Attributes Added
- Nil Attribute Added

**ePayment**

**ePayment.07** - First Name of Individual Signing Physician Certification Statement
- Max Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>50</td>
</tr>
</tbody>
</table>

**ePayment.12** - Insurance Company Address
- Min Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**ePayment.20** - First Name of the Insured
- Max Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>50</td>
</tr>
</tbody>
</table>

**ePayment.21** - Middle Initial/Name of the Insured
- Max Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>50</td>
</tr>
</tbody>
</table>

**ePayment.24** - Closest Relative/Guardian First Name
- Max Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>50</td>
</tr>
</tbody>
</table>

**ePayment.25** - Closest Relative/Guardian Middle Initial/Name
- Max Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>50</td>
</tr>
</tbody>
</table>

**ePayment.26** - Closest Relative/Guardian Street Address
- Min Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**ePayment.34** - Patient's Employer's Address
- Min Length Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

**ePayment.39** - Patient's Employer's Primary Phone Number
- Max Recurrence Change
  
<table>
<thead>
<tr>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>1</td>
</tr>
</tbody>
</table>
eProcedures

eProcedures.10 - EMS or Healthcare Professional Type Performing the Procedure
- Name Change
  Old: EMS or Healthcare Professional Type Performing the Procedure
  New: Role/Type of Person Performing the Procedure

eResponse

eResponse.02 - EMS Agency Name
- Max Length Change
  Old: 50
  New: 100

eResponse.05 - Type of Service Requested
- Definition Change
  Old: The type of service or category of service requested of the EMS Agency responding for this specific EMS incident.
  New: The type of service or category of service requested of the EMS Agency responding for this specific EMS event

eResponse.07 - Primary Role of the Unit
- Definition Change
  Old: The Primary role of the EMS Unit which responded to this specific EMS incident.
  New: The Primary role of the EMS Unit which responded to this specific EMS event

eResponse.08 - Type of Dispatch Delay
- Definition Change
  Old: The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter
  New: The dispatch delays, if any, associated with the dispatch of the EMS unit to the EMS event.

eResponse.09 - Type of Response Delay
- Definition Change
  Old: The response delays, if any, of the EMS unit associated with the patient encounter.
  New: The response delays, if any, of the EMS unit associated with the EMS event.

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

eResponse.11 - Type of Transport Delay
- Definition Change
  Old: The transport delays, if any, of the EMS unit associated with the patient encounter.
  New: The transport delays, if any, of the EMS unit associated with the EMS event.

eResponse.12 - Type of Turn-Around Delay
- Definition Change
Old: The turn-around delays, if any, associated with the EMS unit associated with the patient encounter
New: The turn-around delays, if any, of EMS unit associated with the EMS event.

eResponse.14 - EMS Unit Call Sign
- v2 Number Change
  Old: 
  New: E02_12

eResponse.15 - Vehicle Dispatch Location
- Number Change
  Old: eResponse.15
  New: eResponse.16
- Max Length Change
  Old: 50
  New: 100

eResponse.16 - Vehicle Dispatch GPS Location
- Number Change
  Old: eResponse.16
  New: eResponse.17

eResponse.17 - Vehicle Dispatch US National Grid Location
- Number Change
  Old: eResponse.17
  New: eResponse.18

eResponse.18 - Beginning Odometer Reading of Responding Vehicle
- Number Change
  Old: eResponse.18
  New: eResponse.19

eResponse.19 - On-Scene Odometer Reading of Responding Vehicle
- Number Change
  Old: eResponse.19
  New: eResponse.20

eResponse.20 - Patient Destination Odometer Reading of Responding Vehicle
- Number Change
  Old: eResponse.20
  New: eResponse.21

eResponse.21 - Ending Odometer Reading of Responding Vehicle
- Number Change
  Old: eResponse.21
  New: eResponse.22
eResponse.22 - Response Mode to Scene
- Number Change
  Old: eResponse.22
  New: eResponse.23

eResponse.23 - Additional Response Mode Descriptors
- Number Change
  Old: eResponse.23
  New: eResponse.24

eScene
eScene.08 - Incident Location Type
- Number Change
  Old: eScene.08
  New: eScene.09
- Pattern Change
  Old: Y92\.[0-9]?
  New: Y92\.[0-9]{1,3}\)?
eScene.09 - Incident Facility Code
- Number Change
  Old: eScene.09
  New: eScene.10
- Max Length Change
  Old: 30
  New: 50

eScene.10 - Scene GPS Location
- Number Change
  Old: eScene.10
  New: eScene.11

eScene.11 - Scene US National Grid Coordinates
- Number Change
  Old: eScene.11
  New: eScene.12

eScene.12 - Incident Facility or Location Name
- Number Change
  Old: eScene.12
  New: eScene.13

eScene.13 - Mile Post or Major Roadway
- Number Change
  Old: eScene.13
  New: eScene.14
- State Element Change
  Old: No
New: Yes
- Usage Change
  Old: Optional
  New: Recommended
- NOT Attributes Added
- Nil Attribute Added

**eScene.14 - Incident Street Address**
- Number Change
  Old: eScene.14
  New: eScene.15
- Definition Change
  Old: The street name only where the patient was found, or, if no patient, the address to which the unit responded. Based on NFIRS 5.0 Street or Highway.
  New: The street address where the patient was found, or, if no patient, the address to which the unit responded.
- State Element Change
  Old: No
  New: Yes
- Usage Change
  Old: Optional
  New: Recommended
- NOT Attributes Added
- Nil Attribute Added
- Data Type Change
  Old: StreetName
  New: StreetAddress
- Max Length Change
  Old: 35
  New: 55
- Min Length Change
  Old: 2
  New: 1

**eScene.15 - Scene Apartment, Suite, or Room**
- Number Change
  Old: eScene.15
  New: eScene.16
- Name Change
  Old: Scene Apartment, Suite, or Room
  New: Incident Apartment, Suite, or Room
- State Element Change
  Old: No
  New: Yes
- Usage Change
  Old: Optional
  New: Recommended
- NOT Attributes Added
- Nil Attribute Added

**eScenario.16 - Incident City**
- Number Change
  - **Old:** eScenario.16
  - **New:** eScenario.17

**eScenario.17 - Incident State**
- Number Change
  - **Old:** eScenario.17
  - **New:** eScenario.18

**eScenario.18 - Incident ZIP Code**
- Number Change
  - **Old:** eScenario.18
  - **New:** eScenario.19

**eScenario.19 - Scene Cross Street or Directions**
- Number Change
  - **Old:** eScenario.19
  - **New:** eScenario.20
- State Element Change
  - **Old:** No
  - **New:** Yes
- Usage Change
  - **Old:** Optional
  - **New:** Recommended
- NOT Attributes Added
- Nil Attribute Added

**eScenario.20 - Incident County**
- Number Change
  - **Old:** eScenario.20
  - **New:** eScenario.21

**eScenario.21 - Incident Country**
- Number Change
  - **Old:** eScenario.21
  - **New:** eScenario.22

**eScenario.22 - Incident Census Tract**
- Number Change
  - **Old:** eScenario.22
  - **New:** eScenario.23

**eSituation**
**eSituation.01 - Date/Time of Symptom Onset/Last Normal**
- v2 Number Change
Old: E05_01

**eSituation.05 - Duration of Complaint**
- Max Value Change
  **Old:** 360
  **New:** 365

**eSituation.11 - Provider's Primary Impression**
- Data Type Change
  Old: ProvidersPrimaryImpression
  New: ProvidersImpression
- Updated Constraints:
  Old: DataType = String; minLength = 2; maxLength = 100
  New: Pattern Added: [A-Z]{1}[0-9]{2}([A-Za-z0-9]{1,4})?

**eSituation.12 - Provider's Secondary Impressions**
- Data Type Change
  Old: ProvidersSecondaryImpression
  New: ProvidersImpression
- Updated Constraints:
  Old: DataType = String; minLength = 2; maxLength = 100
  New: Pattern Added: [A-Z]{1}[0-9]{2}([A-Za-z0-9]{1,4})?

**eSituation.13 - Patient's Initial Condition at Scene**
- Name Change
  Old: Patient's Initial Condition at Scene
  New: Initial Patient Acuity
- Definition Change
  Old: The condition of the patient on EMS arrival at the scene.
  New: The acuity of the patient’s condition upon EMS arrival at the scene.
- Data Type Change
  Old: PatientInitialCondition
  New: InitialPatientAcuity

**eSituation.17 - Patient Activity**
- State Element Change
  Old: No
  New: Yes
- Usage Change
  Old: Optional
  New: Recommended
- NOT Attributes Added
- Nil Attribute Added
eTimes

eTimes.16 - EMS Call Completed Date/Time
- National Element Change
  Old: Yes
  New: No
- State Element Change
  Old: Yes
  New: No
  New: No
- Usage Change
  Old: Mandatory
  New: Optional
  New: Optional
- Min Recurrence Change
  Old: 1
  New: 0

eVitals

eVitals.03 - Cardiac Rhythm and Electrocardiography
- Name Change
  Old: Cardiac Rhythm and Electrocardiography
  New: Cardiac Rhythm / Electrocardiography (ECG)
- Definition Change
  Old: The initial cardiac rhythm of the patient as interpreted by EMS personnel.
  New: The cardiac rhythm / ECG and other electrocardiography findings of the patient as interpreted by EMS personnel.

eVitals.17 - Carbon Monoxide (CO)
- State Element Change
  Old: No
  New: Yes
- Usage Change
  Old: Optional
  New: Recommended
- Added Pertinent Negatives
- NOT Attributes Added
- Nil Attribute Added