

NEMESIS v3.0.x Change Log

Overview

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

Changes History

Version	Date	Comments
3.0.5	Sept 27, 2011	<p>“Recommended” added to Usage list. This represents 72 of the 102 State Recommended elements. Recurrence changed for these elements as well from 1:1 or 1:M to 0:1 or 0:M.</p> <p>Updates have been made to elements related to: data type, recurrence, correlationID, pertinent negative value, reordering of the grouping of sections, new comments, additional values</p> <p>New “Type” or “Simple Type” have been developed for elements.</p>
3.0.4	Sept 7, 2011	<p>Attributes added, Code Lists updated</p> <p>New element eOutcome.17 (Outcome at Hospital Discharge) has been added.</p>
3.0.3	Aug 30, 2011	<p>Updates have been made to element definition, recurrence, and comments.</p> <p>Updates have been made to data type constraints.</p> <p>Updates have been made to ensure elements with recurrence 0:M or 1:M contains the correlationID attribute.</p> <p>New element eSituation.17 (Patient Activity) has been added.</p>
3.0.2	Aug 16, 2011	<p>Updates have been made to the first 2-digits of the 7-digit codes for all enumerated code value lists in the Demographic Dataset Elements.</p> <p>Updates have been made to recurrence and comments in eOther elements.</p>

3.0.1	Aug 9, 2011	Updates have been made to state elements, enumerated list (value) descriptions.
3.0.0	Aug 1, 2011	<p>Updates have been made to element names, definitions, data types, constraints, enumerated list (value) descriptions, data element comments, patterns, usage, NOT values, nillable, national, and state.</p> <p>The formatting of the Element Page has changed to show an “Attributes” section. Attributes include: NOT Values, Pertinent Negatives, Phone Number Type, Current Status Type (Active or Inactive), etc. For the full list see summary below. Users will no longer see a separate section listing the choices for NOT Values or Pertinent Negatives. These will be incorporated into the Attributes section.</p>

Version 3.0.5 Date September 27, 2011

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

Usage Value Added

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

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

Table 1 – Previous configuration

Usage	National/State	Recurrence	Not Values (NV)	Is Nillable
Mandatory	National	1 : *	No	No
Required	National and/or State	1 : *	Yes	Yes
Optional	State	0 : *	No	No

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

Usage	National/State	Recurrence	Not Values (NV)	Is Nillable
Mandatory	National	1 : *	No	No
Required	National	1 : *	Yes	Yes
Recommended	State	0 : *	Yes	Yes
Optional	State	0 : *	No	No

Table 3

Number	Name
Demographic DataSet Elements (29)	
dAgency.03	EMS Agency Name
dAgency.10	Other Types of Service
dAgency.22	EMS Billable Calls per Year
dContact.01	Agency Contact Type
dContact.02	Agency Contact Last Name
dContact.03	Agency Contact First Name
dContact.05	Agency Contact Address
dContact.06	Agency Contact City
dContact.07	Agency Contact State
dContact.08	Agency Contact ZIP Code
dContact.10	Agency Contact Phone Number
dContact.11	Agency Contact Email Address
dContact.12	EMS Agency Contact Web Address
dContact.13	Agency Medical Director Degree
dContact.14	Agency Medical Director Board Certification Type
dConfiguration.14	EMD Vendor
dVehicle.01	Unit/Vehicle Number
dVehicle.04	Vehicle Type
dVehicle.10	Vehicle Model Year

dPersonnel.11	EMS Personnel's Date of Birth
dPersonnel.12	EMS Personnel's Gender
dPersonnel.13	EMS Personnel's Race
dPersonnel.22	EMS Personnel's State of Licensure
dPersonnel.23	EMS Personnel's State's Licensure ID Number
dPersonnel.24	EMS Personnel's State EMS Certification Licensure Level
dPersonnel.31	EMS Personnel's Employment Status
dPersonnel.32	EMS Personnel's Employment Status Date
dPersonnel.34	EMS Personnel's Primary EMS Job Role
dPersonnel.35	EMS Personnel's Other Job Responsibilities
EMS DataSet Elements (43)	
eResponse.02	EMS Agency Name
eCrew.01	Crew Member ID
eCrew.02	Crew Member Level
eCrew.03	Crew Member Response Role
eTimes.08	Transfer of EMS Patient Care Date/Time
ePatient.02	Last Name
ePatient.03	First Name
eScene.09	Incident Facility Code
eScene.16	Incident City
eSituation.03	Complaint Type
eSituation.04	Complaint
eSituation.05	Duration of Complaint
eSituation.06	Time Units of Duration of Complaint
eSituation.14	Work-Related Illness/Injury
eInjury.02	Mechanism of Injury
eInjury.07	Use of Occupant Safety Equipment
eArrest.15	Date/Time Resuscitation Discontinued
eHistory.05	Advance Directives
eHistory.06	Medication Allergies
eHistory.12	Current Medications
eNarrative.01	Patient Care Report Narrative
eVitals.07	DBP (Diastolic Blood Pressure)
eVitals.23	Total Glasgow Coma Score
eVitals.24	Temperature
eVitals.28	Pain Scale Type
eExam.01	Estimated Body Weight in Kilograms
eExam.02	Length Based Tape Measure
eExam.03	Date/Time of Assessment
eMedications.09	Medication Crew (Healthcare Professionals) ID
eProcedures.09	Procedure Crew Members ID
eProcedures.13	Vascular Access Location
eAirway.01	Indications for Invasive Airway
eAirway.02	Date/Time Airway Device Placement Confirmation
eAirway.03	Airway Device Being Confirmed
eAirway.04	Airway Device Placement Confirmed Method

eAirway.06	Type of Individual Confirming Airway Device Placement
eAirway.07	Crew Member ID
eAirway.08	Airway Complications Encountered
eDisposition.01	Destination/Transferred To, Name
eDisposition.02	Destination/Transferred To, Code
eDisposition.11	Number of Patients Transported in this EMS Unit
eOther.06	Type of Suspected EMS Blood/Body Fluid Exposure, Injury, or Death
eOther.08	Crew Member Completing this Report

EMSDataset

eCustomConfiguration

- Added Type

Old: ---

New: eCustomResults

commonTypes

New Simple Type

- icd10CodeInjury

- Data Type: string

- Restriction (Pattern): [S-T]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?|[V-Y]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?

- Elements Impacted: eInjury.01 Cause of Injury

PN.NotPerformedByEMS

- Documentation Change

Old: None Reported

New: Not Performed by EMS

-Elements Impacted: All Exam "Assessments":

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

dConfiguration

dConfiguration.16 – Crew Call Sign

- Recurrence Change

Old: 1 : 1

New: 1 : M

dFacility

Added New Group Element

- Added dFacility.FacilityGroup
- Recurrence 0 : M
- Added attribute **correlationID**

dFacility.FacilityGroup

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

dFacility.01 – Type of Facility

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

dAgency

dAgency.02 – EMS Agency Number

- Recurrence Change
 - Old:** 1 : M
 - New:** 1 : 1

eAirway

eAirwayDevicePlacementGroup

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

ConfirmationGroup

- Moved this group under AirwayGroup

eAirway.02 Date/Time Airway Device Placement Confirmation

- Moved to ConfirmationGroup

eArrest

eArrest.13 – Neurological Outcome at Hospital Discharge

- Code Enumeration Change
 - Old:** 3013001 - CPC 1 or 2
 - 3013003 - CPC 3 or 4
 - New:** 3013001 - CPC 1 Good Cerebral Performance
 - 3013003 - CPC 2 Moderate Cerebral Disability
 - 3013005 - CPC 3 Severe Cerebral Disability
 - 3013007 - CPC 4 Coma or Vegetative State

eInjury

eInjury.01 – Cause of Injury

- Data Type Change

Old: icd10Code

New: icd10CodeInjury

-Changed Pattern

Old: [A-Z]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?

New: [S-T]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?|[V-Y]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?

- Comment Change

Old: Code list is represented in ICD-10-CM: Injury, poisoning and certain other consequences of external causes (S00 – T79.4).

New: Suggested code list is represented in ICD-10-CM: External Causes of Morbidity, Injury, Poisoning and Certain other Consequences of External Causes with the Range (S00 through T79.4 and V00 through Y38.9X2). It is not expected that EMS will utilize the 7th digit, often used to describe the type of encounter (A-Initial Encounter, D-Subsequent Encounter, S-Sequela). Thus, both S and T codes should be limited to 5 or 6 digits at the most

Code list is represented in ICD-10 Codes.

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus4000

eOther

eOther.05 – Suspected EMS Work Related Exposure, Injury, or Death

- Recurrence Change

Old: 1 : M

New: 1 : 1

eOther.07 – Natural, Suspected, Intentional, or Unintentional Disaster

- Recurrence Change

Old: 0 : 1

New: 0 : M

eMedication

eMedications.08 - Medication Complication

- Added Code

Old: ----

New: 3907021 Hypothermia

eProcedure

eProcedures.07 - Procedure Complication

- Added Code

Old: ----

New: 3907023 Hypothermia

eSituation

eSituation.17 – Patient Activity

- Removed Version 2 Element

Version 3.0.4 Date September 07, 2011

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

General

Overview and Summary

Under heading "National and State Element Indicator", the third line "at the local EMS agency level and submitted to the state." has been removed.

Namespace and TargetNamespace

- Added the following namespace and targetNamespace to all XSDs

```
xmlns="http://www.nemsis.org"  
targetNamespace="http://www.nemsis.org"
```

CommonTypes

Removed Code: 9914007 – Airway-Paralytic (RSI)

dAgency

dAgency.07 – EMS Agency Census Tracts

dAgency.08 – EMS Agency Service Area ZIP Codes

- Add attributes: Current Status, Current Status Date

eOutcome

eOutcome.17 – (New Element)

Name: Outcome at Hospital Discharge

Definition: The patient's functional status at time of hospital discharge.

Data Type: OutcomeAtHospitalDischarge

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values (NV)	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0:1

Constraints:

Code	Description
4317001	No symptoms at all
4317003	No significant disability despite symptoms; able to carry out all usual duties
4317005	Slight disability; unable to carry out all previous activities, but able to look after own affairs without assistance
4317007	Moderate disability; requiring some help, but able to walk without assistance
4317009	Moderately severe disability; unable to walk without assistance and unable

	to attend to own bodily needs without assistance
4317011	Severe disability; bedridden, incontinent and requiring constant nursing care and attention
4317013	Dead

Version 3.0.3 Date August 30, 2011

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

CommonType

GraphicType

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

CityGnisCode

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

TimeStampType

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

dConfiguration

dConfiguration.16 - Crew Call Sign

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

dFacility

dFacility.04 - Hospital Designation

- Definition change:

Old: The designation associated with the hospital for this transport(e.g. Trauma, STEMI, Peds, etc)

New: The designation(s) associated with the hospital (e.g. Trauma, STEMI, Peds, etc)

dFacility.06

element removed

eDisposition

eDisposition.23 - Hospital Designation:

Version 3 Changes Implemented comment

Old: ---

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

eInjury

eInjury.26 - ACN Vehicle Seat Location

– Recurrence Change

Old: 0:M

New: 0:1

eInjury.29 – ACN Incident Airbag Deployed

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

eOther

eOther.05 & eOther.07

- Elements Swapped

Old: eOther.05 – Natural, Suspected, Intentional, or Unintentional Disaster

eOther.07 – Suspected EMS Work Related Exposure, Injury, or Death

New: eOther.07 – Natural, Suspected, Intentional, or Unintentional Disaster

eOther.05 – Suspected EMS Work Related Exposure, Injury, or Death

eOther.09 - External Electronic Documents

– Recurrence Change

Old: 0:M

New: 0:1

eOutcome

eOutcome.08 - Emergency Department Recorded Cause of Injury

eOutcome.09 - Emergency Department Procedures

eOutcome.10 - Emergency Department Diagnosis

eOutcome.12 - Hospital Procedures

eOutcome.13 - Hospital Diagnosis

- Comment Change:

Old: This information can be submitted as free text or ICD10 codes.

New: Code list is represented in ICD-10 Codes.

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus

- Constraints Change:

Old: String minLength 2, maxLength 100

New: ICD-10 pattern

eOutcome.14 Total ICU Length of Stay

- Constraint Change:

Old: string, minLength 2

New: integer, minLength 1

eOutcome.14 Total Ventilator Days

- Constraint Change:

Old: string, minLength 2

New: integer, 1inLength 2

ePayment

ePayment.52 - CMS Transportation Indicator

-Definition Change

Old: "The CMS Ambulance Fee Schedule Transportation and Air Medical Transportation Indicators are used to better describe....."

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

eSituation

eSituation.17 – (New Element)

Name: Patient Activity

Definition: The activity the patient was involved in at the time the patient experienced the onset of symptoms or experienced an injury.

Data Type: icd10Activity (String)

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values (NV)	No
Version 2 Element		Is Nillable	No

Usage	Optional	Recurrence	0:M
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Constraints:

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

Data Element Comment: Code list is represented in ICD-10-CM: Diagnoses Codes. This list will only contain specific Y codes, see suggested NEMESIS list of activity codes (Y93).

Version 3.0.2 Date August 16, 2011

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

General - Fixed code numbering for sections that begin with a numeric zero

Section	Old Section Number	New Section Number
dAgency	01	10
dContact	02	11
dConfiguration	03	12
dLocation	04	13
dVehicle	05	14
dPersonnel	06	15
dDevice	07	16
dFacility	08	17
dCustom	09	18

eOther

eOther.FileGroup

– Added MaxOccurs

Old: ---

New: maxOccurs="Unbounded"

Same as: – Recurrence Change

Old: 1:1

New: 0:1

eOther.18 – Signature Graphic

– Comment Change

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

New: ---

eOther.19 – Date/Time of Signature

– Comment Change

Old: ---

New: Added comment explaining DateTime pattern.

XML Schema Files

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

commonTypes

DateTimeType

-Changed minInclusive

Old: 1950-01-01T00:00:00

New: 1950-01-01T00:00:00-00:00

-Changed maxInclusive

Old: 2050-01-01T00:00:00

New: 2050-01-01T00:00:00-00:00

General - Fixed code numbering

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

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

dContact.01 – Agency Contact Type

Old: 0301001... 0301015

New: 0201001... 0201017

dContact.13 – Agency Medical Director

Old: 0313001, 0313003

New: 0213001, 0213003

dContact.14 – Agency Medical Director Board Certification Type

There were no errors in this list; however the dContact XSD / Section is identified by the initial two digits of the 7-digit code. The numbering convention for all dContact elements now begins with "02".

Old: 0314001... 0314043

New: 0214001... 0201043

dContact.15 – Medical Director Compensation

Old: 0315003, 0315003

New: 0215001, 0215003

dPersonnel.31 – EMS Personnel's Employment Status

Old: 0631001... 0631005

New: 0631001... 0631007

dPersonnel.34 – EMS Personnel's Primary EMS Job Role

Old: 0634001... 0634015

New: 0631001... 0634017

eDispatch.01 – Compliant Reported by Dispatch

Old: 2301001... 2301077

New: 2301001... 2301075

eDispatch.02 – EMD Performed

Old: 2301001... 2301007

New: 2302001... 2302007

eArrest.11 – First Monitored Arrest Rhythm of the Patient

Old: 3009001... 3009013

New: 3011001... 3011013

eArrest.12 – Any Return of Spontaneous Circulation

Old: 3009001... 3009007

New: 3012001... 3012007

eExam.05 – Head Assessment

Old: 3505033... 3505041

New: 3505033... 3505043

dCustomConfiguration & eCustomConfiguration

dCustomConfiguration.02 – Custom Definition & eCustomConfiguration.02 – Custom Definition

- Constraint Change

Old: Code List

New: String with minLength=0 and maxLength=255

dPersonnel

dPersonnel.20 –

-Removed Attributes: NV, Nil

dPersonnel.21 - EMS Personnel's Agency ID Number

-Removed Attributes: NV, Nil

-Usage Change

Old: Required

New: Optional

dPersonnel.22 – EMS Personnel's State of Licensure

– State Element Change

Old: No

New: Yes

dPersonnel.28 – National Registry Credentialed

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

dPersonnel.29 – National Registry Certification Level

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

dPersonnel.30 – National Registry Certification Date

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

dPersonnel.38 – EMS Professional's Practice Level

– Constraints Change

Old: Data Type: Date

New: Code List: Enumerated List, using the CommonType “StateCertificationLicensureLevels”

dVehicle

dVehicle.03 – EMS Unit Call Sign

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

eAirway

eAirway.05 – Tube Depth

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

-Removed Attribute: Nil

eAirway.07 – Crew Member ID

-Added Attribute: Nil

eArrest

eArrest.18 – End of EMS Cardiac Arrest Event

-Added Attribute: NV & Nil

eCustom

eCustomConfiguration.03 – Custom Data Type

– National Element Change

Old: Yes

New: No

– State Element Change

Old: Yes

New: No

eDevice

eDevice.07 – ECG Lead

– Usage Change

Old: Required

New: Optional

-Removed Attribute: NV

eDevice.08 – ECG Interpretation

– Usage Change

Old: Required

New: Optional

eDispatch

eDispatch.04 - Computer Aided Dispatch (CAD) Name or ID

– Data Element Comment Change

Old: This element can be used to identify the dispatch center (Primary or Secondary Service Answering Point - PSAP) that dispatches the EMS agency.

New: This element can be used to identify the dispatch center (Primary or Secondary Public Safety Answering Point - PSAP) that dispatches the EMS agency.

eMedications

eMedications.02 – Medication Administered Prior to this Units EMS Care

– National Element Change

Old: No

New: Yes

-Added Attribute: Nil

eOther

eOther.02 – Potential System of Care/Specialty/Registry Patient

-Removed Attribute: NV & Nil

eOther.05 – Natural, Suspected, Intentional, or Unintentional Disaster

-Removed Attribute: Nil

eOther.07 – Suspected EMS Work Related Exposure, Injury, or Death

- Added Attribute: Nil

eOther.08 – Crew Member Completing this Report

-Added Attribute: Nil

ePayment

ePayment.51 – EMS Condition Code

-Removed Attributes: NV and Nil

eResponse

eResponse.13 – EMS Vehicle (Unit) Number

-Removed Attribute: NV

eSituation

eSituation.02 – Possible Injury

-Added Attribute: Nil

eVitals

eVitals.20 - Glasgow Coma Score-Verbal

– Enumerated list update

Code: 4

Old Description: Arterial Line Confused (>2 Years); Cries but is consolable, inappropriate interactions

New Description: Confused (>2 Years); Cries but is consolable, inappropriate interactions

XML Schema Files

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

Formatting Changes to the Data Element Page

Addition of Attributes: General changes have been made to show elements which allow for "Attributes". An attribute allows additional information related to the element to be documented.

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

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

For information related to the first three attributes please see the NEMESIS document [How to Utilize NEMESIS V3 "NOT values/pertinent negatives/nillable"](#).

commonTypes XSD

ANSICountryCode

– Definition Change

Old: A list of valid US County ANSI Codes by State

New: A list of valid Country ANSI Codes

ANSICountyCode

– Definition Change

Old: A list of valid US Country ANSI Codes by State

New: A list of valid US County ANSI Codes by State

– Data Type Change

Old: Integer

New: String

– Constraint Change

Old: minInclusive=5 & maxInclusive=5

New: length=5

ANSIStateCode

– Data Type Change

Old: Integer

New: String

– Constraint Change

Old: minInclusive=2 & maxInclusive=2

New: length=2

CityGnisCode

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

NationalProviderIdentifier

- Data Type Change
 - Old:** Integer
 - New:** String
- Constraint Change
 - Old:** minInclusive=10 & maxInclusive=10
 - New:** length=10

dAgency XSD / Section

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

dAgency.07 – EMS Agency Census Tracts

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.16 – Total Primary Service Size Area

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.17 – Total Service Area Population

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.18 – 911 EMS Call Center Volume per Year

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.19 – EMS Dispatch Volume per Year

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.20 – EMS Patient Transport Volume per Year

- Is Nillable Change
 - Old:** No
 - New:** Yes

dAgency.21 – EMS Patient Contact Volume per Year

– Is Nillable Change

Old: No

New: Yes

dAgency.22 – EMS Billable Calls per Year

– Is Nillable Change

Old: No

New: Yes

dContact XSD / Section

dContact.10 – Agency Contact Phone Number

– NOT Values Change

Old: No

New: Yes

dConfiguration XSD / Section

dConfiguration.03 - Procedures Permitted by the State

– Data Element Comment Change

Old:

This data element should capture all of the procedures permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04). This is related to the EMS Agency's procedures (dConfiguration.05) which have been implemented within the EMS System.

New:

This data element should capture all of the procedures permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04). This is related to the EMS Agency's procedures (dConfiguration.07) which have been implemented within the EMS System.

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

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

ICD-10-PCS

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus

dConfiguration.04 - Medications Permitted by the State

– Definition Change

Old: A list of all of the medications permitted by the state to be used by EMS each state licensure level.

New: A list of all of the medications permitted by the state to be used by each EMS state certification/licensure level.

– Is Nillable Change

Old: Yes

New: No

– Data Element Comment Change

Old:

This data element should capture all of the medications permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RXNORM (RXCUI) Code. This is associated with each of the states (dAgency.04).

New:

This data element should capture all of the medications permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RxNorm (RXCUI) Code. This is associated with each of the states (dAgency.04).

– V3 Changes Implemented Change

Old:

Added to better define state EMS capability.

New:

State EMS systems which have regulatory authority to identify medications to be administered within the state may identify specific RxNorm codes based on medical direction and their own need.

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

RxNorm

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus

Website - <http://www.nlm.nih.gov/research/umls/rxnorm/docs/rxnormfiles.html>

Product - RxNorm Full Monthly Release

dConfiguration.05 - Protocols Permitted by the State

– Is Nillable Change

Old: Yes

New: No

– Data Element Comment Change

Old:

This data element should capture all of the protocols permitted by the state for any/all levels of EMS personnel in the state. This should be stored as an RXNORM (RXCUI) Code. This is associated with each of the states (dAgency.04).

New:

This data element should capture all of the protocols permitted by the state for any/all levels of EMS personnel in the state. This is associated with each of the states (dAgency.04).

States can customize protocols but where possible state protocols should map to these uniform codes. Additional protocols should be coded using text values or numbers between 100 and 10,000.

- The list is defined by the NASEMSO State Medical Directors.
- V3 Changes Implemented Change
 - Old:**
Added to better define state EMS capability.
 - New:**
Added to better identify states with statewide protocols and define state EMS capability and care.
 - Change to XSD extension base (which is the 'name' the XSD is referencing for the element values)
 - Old:** icd10Code
 - New:** ProtocolsUsed

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

- Definition Change
 - Old:** EMS certification levels which are permitted to perform the procedure listed in dConfiguration.06.
 - New:** EMS certification levels which are permitted to perform the procedure listed in dConfiguration.07.
- Data Element Comment Change
 - Old:** Using each certification level within the agency, indicate the approved procedures allowed utilizing dConfiguration.06 (EMS Agency Procedures).
 - New:** Using each certification level within the agency, indicate the approved procedures allowed utilizing dConfiguration.07 (EMS Agency Procedures).

dConfiguration.07 - EMS Agency Procedures

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

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

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

ICD-10-PCS

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus

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

- Name Change
 - Old:** Personnel Level Permitted to Administer the Medication
 - New:** EMS Certification Level Permitted to Administer Each Medication

– Definition Change

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

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

dConfiguration.09 - EMS Agency Medications

– Data Element Comment Change

Old:

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

New:

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

List of medications based on RxNorm (RXCU) code. See suggested NEMESIS list of medication codes.

RxNorm

Website - <http://uts.nlm.nih.gov>

Product - UMLS Metathesaurus

Website - <http://www.nlm.nih.gov/research/umls/rxnorm/docs/rxnormfiles.html>

Product - RxNorm Full Monthly Release

dConfiguration.10 - EMS Agency Protocols

– Definition Change

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

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

dConfiguration.16 - Crew Call Sign

– Usage Change

Old: ----

New: Mandatory

dConfiguration.17 – (New Element)

Name: Dispatch Center (CAD) Name or ID

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

Data Type: DispatchCenterCADNameorID

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values (NV)	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0:1

Constraints:

String min = 2 max = 100

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

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

dCustom XSD / Section

Removed "EMS" from "Name" and "Definition"
Changed all "dCustomResult" to "dCustomResults"

dFacility XSD / Section

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

dFacility.01 - Type of Facility

- Usage Change
 - Old:** Required
 - New:** Optional
- NOT Values Change
 - Old:** Yes
 - New:** No
- Is Nillable Change
 - Old:** Yes
 - New:** No

dFacility.02 - Facility Name

- NOT Values Change
 - Old:** Yes
 - New:** No
- Is Nillable Change
 - Old:** Yes
 - New:** No

dFacility.03 - Facility Location Code

- Is Nillable Change
 - Old:** Yes
 - New:** No
- Recurrence Change

Old: 1:1
New: 0:1

dFacility.04 - Hospital Designation

– NOT Values Change

Old: Yes

New: No

– Is Nillable Change

Old: Yes

New: No

– Recurrence Change

Old: 1:1

New: 0:1

dFacility.02 - Facility National Provider Identifier

– NOT Values Change

Old: Yes

New: No

– Is Nillable Change

Old: Yes

New: No

dFacility.10 - Facility State

– NOT Values Change

Old: Yes

New: No

– Is Nillable Change

Old: Yes

New: No

– Recurrence Change

Old: 1:1

New: 0:1

dFacility.11 - Facility ZIP Code

– NOT Values Change

Old: Yes

New: No

– Is Nillable Change

Old: Yes

New: No

– Recurrence Change

Old: 1:1

New: 0:1

dFacility.11 - Facility County

– NOT Values Change

Old: Yes

New: No

- Is Nillable Change
 - Old:** Yes
 - New:** No
- Recurrence Change
 - Old:** 1:1
 - New:** 0:1

dPersonnel XSD / Section

Removed Elements

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

Renamed Elements - dPersonnel.11 through dPersonnel.40

- Each element shifted down one in numbering because of the removal of dPersonnel.10 EMS Personnel's Phone Number Type

- Old:** dPersonnel.11 **New:** dPersonnel.10
- Old:** dPersonnel.12 **New:** dPersonnel.11
- ...through
- Old:** dPersonnel.40 **New:** dPersonnel.39

dPersonnel.09 - EMS Personnel's Phone Number

- Added “PhoneNumberType” Attribute
 - The phone type attributes choices are: Fax, Home, Mobile, Pager, and Work.

dPersonnel.24 - EMS Personnel's State EMS Certification Licensure Level

- National Element Change
 - Old:** Yes
 - New:** No

dVehicle XSD / Section

dVehicle.03 - EMS Unit Call Sign

- Usage Change
 - Old:** Required
 - New:** Optional

dVehicle.13 - Annual Vehicle Miles/Kilometers

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

eAirway XSD / Section

eAirway.02 - Date/Time Airway Device Placement Confirmation

- Added DateTime pattern comments

eAirway.10 - Date/Time Decision to Manage the Patient with an Invasive Airway

– Added DateTime pattern comments

eAirway.11 - Date/Time Invasive Airway Placement Attempts Abandoned

– Added DateTime pattern comments

eArrest XSD / Section

eArrest.04 - Arrest Witnessed By

– Name Change

Old: Arrest Witnessed by

New: Arrest Witnessed By

eCustom XSD / Section

General Change:

Removed “EMS” from “Name” and “Definition”

Changed “eCustomResult” to “eCustomResults”

eDevice XSD / Section

eDevice.02 - Date/Time of Event

– Added DateTime pattern comments

eDispatch XSD / Section

eDispatch.04 – (New Element)

Name: Computer Aided Dispatch (CAD) Name or ID

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

Data Type: ComputerAidedDispatchCADNameorID

National Element	No	Pertinent Negatives (PN)	No
State Element	No	NOT Values (NV)	No
Version 2 Element		Is Nillable	No
Usage	Optional	Recurrence	0:1

Constraints:

String min = 2 max = 100

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

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

eDisposition XSD / Section

eDisposition.25 - Date/Time of Destination Prearrival Activation

– Added DateTime pattern comments

eExam XSD / Section

eExam.03 - Date/Time of Assessment

– Added DateTime pattern comments

eHistory XSD / Section

eHistory.10 - The Patient's Type of Immunization

– Name Change

Old: The patient's type of immunization.

New: The Patient's Type of Immunization

eHistory.19 - Last Oral Intake

– Added DateTime pattern comments

eInjury XSD / Section

eInjury.05 - Main Area of the Vehicle Impacted by the Collision

– Name Change

Old: Main Area of the Vehicle impacted by the collision

New: Main Area of the Vehicle Impacted by the Collision

eInjury.14 - Date/Time of ACN Incident

– Added DateTime pattern comments

eLabs XSD / Section

eLabs.01 - Date/Time of Laboratory or Imaging Result

– Added DateTime pattern comments

eMedications XSD / Section

eMedications.01 - Date/Time Medication Administered

– Added DateTime pattern comments

eMedications.05 - Medication Dosage

– Is Nillable Change

Old: Yes

New: No

eMedications.06 - Medication Dosage Units

– Is Nillable Change

Old: Yes

New: No

ePayment XSD / Section

ePayment.04 - Reason for Physician Certification Statement

– Enumerated list update

Code: 2604035

Old Description: Unable to maintain erect sitting position in a chair for time needed to transport, due to moderate

New Description: Unable to maintain erect sitting position in a chair for time needed to transport, due to moderate muscular weakness and de-conditioning.

Code: 2604037

Old Description: Unable to sit in chair or wheelchair due to grade II or greater decubitus ulcers on buttocks

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

ePayment.39 - Patient's Employer's Primary Phone Number

– Name Change

Old: Patient's Phone Number

New: Patient's Employer's Primary Phone Number

– Definition Change

Old: The patient's phone number

New: The employer's primary phone number

eResponse XSD / Section

eResponse.09 - Type of Response Delay

– Definition Change

Old: The response delays, if any, associated with the UNIT of the EMS unit to the patient encounter

New: The response delays, if any, of the EMS unit associated with the patient encounter.

eResponse.10 - Type of Scene Delay

– Definition Change

Old: The scene delays, if any, of the unit associated with the patient encounter.

New: The scene delays, if any, of the EMS unit associated with the patient encounter

eResponse.11 - Type of Transport Delay

– Definition Change

Old: The transport delays, if any, of the unit associated with the patient encounter.

New: The transport delays, if any, of the EMS unit associated with the patient encounter

eResponse.14 - EMS Unit Call Sign

– Usage Change

Old: Required

New: Mandatory

eOther XSD / Section

eOther.05 - Natural, Suspected, Intentional, or Unintentional Disaster

– Name Change

Old: Natural, Suspected, Intentional, or Unintentional Disaster

New: Natural, suspected intentional or unintentional disaster

eOther.18

– Added DateTime pattern comments

eOutcome XSD / Section

eOutcome.11 - Date/Time of Hospital Admission

– Added DateTime pattern comments

ePayment XSD / Section

ePayment.03 - Date Physician Certification Statement Signed

– Added DateTime pattern comments

ePayment.06 (First Name) and ePayment.07 (Last Name) swapped

Old:

ePayment.06 - First Name of Individual Signing Physician Certification Statement

ePayment.07 - Last Name of Individual Signing Physician Certification Statement

New:

ePayment.06 - Last Name of Individual Signing Physician Certification Statement

ePayment.07 - First Name of Individual Signing Physician Certification Statement

eProcedures XSD / Section

eProcedures.01 - Date/Time Procedure Performed

– Added DateTime pattern comments

eScene XSD / Section

eScene.05 - Date/Time Initial Responder Arrived on Scene

– Added DateTime pattern comments

eSituation XSD / Section

New Data Type

– Associated Symptom

Base: String

Pattern: R[0-6][0-9](\.\d{0,4})?|R73.9

eSituation.01 - Date/Time of Symptom Onset/Last Normal

– Added DateTime pattern comments

eSituation.09 - Primary Symptom

– Data Type Change

Old: PrimarySymptom

New: AssociatedSymptoms

eSituation.10 - Other Associated Symptoms

– Data Type Change

Old: OtherAssociatedSymptoms

New: AssociatedSymptoms

eSituation.11 - Provider's Primary Impression

– Name Change

Old: Providers Primary Impression

New: Provider's Primary Impression

eTimes XSD / Section

All eTimes elements

– Added DateTime pattern comments

eVitals XSD / Section

eVitals.01 - Date/Time Vital Signs Taken

– Added DateTime pattern comments

eVitals.30 - Stroke Scale Type

– Enumerated list update

Code: 3330011

Old Description: Other (Not Listed)

New Description: Other Stoke Scale Type