NEMSIS v3.2.0 Change Log

Overview

This change log, dated January 20, 2012, characterizes revisions made since the November 22, 2011 NEMSIS Version 3.1.1 Official Release Update.

Changes History

Version	Date	Comments
3.2.0	January 20, 2012	• White Paper Updates • The EMS Procedure elements listed below will now be using SNOMED CT codes instead of ICD-10-PCS codes. (This will not impact the eOutcome elements related to the procedures performed by the ED or Hospital.) Elements impacted include: - dConfiguration.03 - Procedures Permitted by the State - dConfiguation.07 - EMS Agency Procedures - eProcedures.03 - Procedure • EMS Dataset XSD Header Changes: Removed all header elements except for: - dAgency.01 - EMS Agency Unique State ID - dAgency.02 - EMS Agency Number - dAgency.03 - EMS Agency Name - dAgency.04 - EMS Agency State - eCustomConfiguration • Performance Measures added for eResponse.15 - Level of Care of This Unit which will allow better assessment of the care and capabilities of each EMS response for the performance measures • Removed "Current Status" and "Status Date" attributes • Added "timeStamp" attribute to "DemographicReport" group • Fixed Correlation ID attribute • Removed Pertinent Negative Values for specific elements, primarily the eExam Assessment elements. These elements may also have a different schematron rule associated with it.

		• Added Nillable = True for specific elements to allow for clearer documentation of Pertinent Negative attributes.
		• Schematron Rules XML file updated January 20, 2012
		• Updated the Field Triage value descriptions in element eInjury.03 and eInjury.04 to match the newly release CDC standard for the 2011 Guidelines for the Field Triage of Injured Patients.
		• Pattern Changes for multiple elements; please see the table on pages 10-12.
		• Elements with Suggested Lists have a blanket statement that reads: *"Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html"*. If an ICD-10-CM range was previously listed for an element it has been removed (e.g. eInjury.01 - Cause of Injury, eSituation.09 - Primary Symptom, eHistory.08 - Medical/Surgical History, etc.).

Version 3.2.0 Date January 20, 2012

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

White Paper Updates

eSituation.09 - Primary Symptom *(December 5, 2011)*

eSituation.10 - Other Associated Symptoms *(December 5, 2011)*

- Comment Change regarding the ICD-10-CM Range:

Old: Code list is represented in ICD-10-CM: Symptoms, Signs and Abnormal Clinical and Laboratory Findings, (R00-69, R73.9)

New: Code list is represented in ICD-10-CM: Symptoms, Signs and Abnormal Clinical and Laboratory Findings, (R00-69, R73.9, R99)

- Value Description Change

Descriptions Removed:

Abnormal posture (PT)	Dyslexia and alexia (PT)
Agnosia (PT)	Enlarged lymph nodes, unspecified (PT)
Apraxia (PT)	Halitosis (PT)
Clicking hip (PT)	Hypernasality (PT)
Dry mouth, unspecified (PT)	Hyponasality (PT)
Dysarthria and anarthria (PT)	Other abnormalities of gait and mobility (HT) (duplicate of PT)

eInjury.01 - Cause of Injury *(December 5, 2011)*

The opening paragraph was updated adding the sentences "The element eInjury.01 is designed to be repeated. Thus, eInjury.01 should document the cause of the injury and intent associated with the injury."

In addition the acceptable ICD-10-CM range has been reduced to include:

- T36.0xx through T65.94
- T71.11 through T71.9
- T75.00 through T76.92
- V00.0x through Y38.9xx

dConfiguration.04 - Medications Permitted by the State *(December 6, 2011)*

dConfiguration.09 - EMS Agency Medications *(December 6, 2011)*

eMedication.03 - Medication Given *(December 6, 2011)*

Additional Information added to the suggested list white paper explaining how the medication descriptions were selected.

eHistory.06 - Medication Allergies *(January 5, 2012)*

The opening section "eHisotry.06-Medication Allergies" was rewritten providing more information to the user. Information regarding the ten ICD-10-CM specific codes and the 22, 116 RxNorm codes in the suggested list download site is included.

eHistory.08 - Medical/Surgical History *(January 6, 2012)*

The ICD-10-CM range was expanded. It matches the Provider Impression range with the addition of Z78-Z87.898 and Z89-Z99.89. Please note a change in the ranges in the T section to include:

- T79.0-T79.9, T79.A-T79.A9
- T80.0-T80.92, T80.A-T80.A9
- T86.0-T86.99

White Paper - NEW
eSituation.11 - Provider's Primary Impression *(January 19, 2012)*
eSituation.12 - Provider's Secondary Impressions *(January 19, 2012)*

Removed Pertinent Negative options except for "Exam Finding Not Present"
Pertinent Negatives Removed: Unable to Complete, Not Performed by EMS, and Refused
eExam.04 - Skin Assessment
eExam.05 - Head Assessment
eExam.06 - Face Assessment
eExam.07 - Neck Assessment
eExam.08 - Chest/Lungs Assessment
eExam.09 - Heart Assessment
eExam.11 - Abdomen Assessment
eExam.12 - Pelvis/Genitourinary Assessment
eExam.14 - Back and Spine Assessment
eExam.16 - Extremities Assessment
eExam.18 - Eye Assessment
eExam.19 - Mental Status Assessment
eExam.20 - Neurological Assessment

Removed ALL Pertinent Negative values
eVitals.15 - Respiratory Effort
eVitals.26 - Level of Responsiveness (AVPU)

Added attribute Nillable="True"
eHistory.06 - Medication Allergies
eHistory.18 - Pregnancy
eVitals.15 - Method of ECG Interpretation
eVitals.26 - Level of Responsiveness (AVPU)
eVitals.32 - APGAR
eVitals.33 - Revised Trauma Score

Pertinent Negative Change to value description
Old: 8801013 - No Known Drug Allergies
New: 8801013 - No Known Drug Allergy

eInjury.03 - Trauma Center Criteria Code Description Changes

Code	Old Description	New Description
2903001	Amputation Proximal to Wrist and Ankle	Amputation proximal to wrist or ankle
2903003	Crushed, Degloved, or Mangled Extremity	Crushed, degloved, mangled, or pulseless extremity
2903005	Flail Chest	Chest wall instability or deformity (e.g., flail chest)
2903007	Glasgow Coma Score less than 14	Glasgow Coma Score < 14
2903009	Open or Depressed Skull Fracture	Open or depressed skull fracture
2903013	Pelvic Fracture(s)	Pelvic fractures
2903015	Penetrating Injury to Head, Neck, Torso, and Extremities Proximal to Elbow and Knee	All penetrating injuries to head, neck, torso, and extremities proximal to elbow or knee
2903017	Respiratory Rate <10 or >29 OR (<20 in infant < one year)	Respiratory Rate <10 or >29 breaths per minute (<20 in infants aged <1 year) or need for ventilatory support
2903019	Systolic Blood Pressure less than 90	Systolic Blood Pressure <90 mmHg
2903021	Two or More Proximal Long-Bone Fractures	Two or more proximal long-bone fractures

eInjury.04 - Vehicular, Pedestrian, or Other Injury Risk Factor

Code	Old Description	New Description
2903001	Crash Intrusion: > 12 in. occupant site; > 18 in. any site	Crash Intrusion, including roof: > 12 in. occupant site; > 18 in. any site

dConfiguration

dConfiguration.03 - Procedures Permitted by the State
dConfiguration.07 - EMS Agency Procedures
– Constraint Changes:

	Base Type	Data Type	minValue	maxValue	Pattern
Old:	String	ICD-10-PCS			[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?
New:	Integer	SNOMED CT	100000	1000000000	

dConfiguration.03 - Procedures Permitted by the State
– Data Element Comment Change (*…in part*):

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

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

dConfiguration.07 - EMS Agency Procedures

– Data Element Comment Change *(...in part)*:

Old:	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
New:	Code list is represented in SNOMEDCT: Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html SNOMEDCT Website: http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html Product: Product - UMLS Metathesaurus 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.

eOther

eOther.06 - Name Change

– Element Name Change
>   **Old:** Type of Suspected EMS Blood/Body Fluid Exposure, Injury, or Death
>   **New:** The Type of Work-Related Injury, Death, or Suspected Exposure

ePatient

ePatient.05 - Patient's Home Address

– Data Element Comment Change:
>   **Old:**
>> This is a CMS standard. According to the Medicare Claims Processing Manual, Chapter 15 - Ambulance, Ambulance suppliers bill using CMS-1500 form or CMS-1450 form for institution-based ambulance providers. This standard adheres to CMS-1500 and 1450.

>   **New:**
>> This is a CMS standard. According to the Medicare Claims Processing Manual, Chapter 15 - Ambulance, Ambulance suppliers bill using CMS-1500 form or CMS-1450 form for institution-based ambulance providers. This standard adheres to CMS-1500 and 1450.
>>
>> This element allows for a two line documentation of the address. For out of country addresses the second line should be used to document, city, country, postal code and any other pertinent information.

ePatient.18 - Patient's Phone Number

– Definition Change
>   **Old:** The patient's home or primary phone number
>   **New:** The patient's phone number

– Data Element Comment Change
>   **Old:**
>   **New:** This element contains an attribute to define what type of phone number is being documented i.e. Fax, Home, Mobile, Pager, and Work.

ePayment

ePayment.26 - Closest Relative/ Guardian Street Address

– Data Element Comment Change

> **Old:**
> **New:** This element allows for a two line documentation of the address. For out of country addresses the second line should be used to document, city, country, postal code and any other pertinent information.

ePayment.34 - Patient's Employer's Address

– Data Element Comment Change

> **Old:**
> **New:** This element allows for a two line documentation of the address. For out of country addresses the second line should be used to document, city, country, postal code and any other pertinent information.

eProcedures

eProcedures.03 - Procedure

– Constraint Changes:

	Base Type	Data Type	minValue	maxValue	Pattern
Old:	String	ICD-10-PCS			[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?
New:	Integer	SNOMED CT	100000	1000000000	

– Data Element Comment Change:

Old:	Procedures which are recorded as a Vital Sign do not have to be documented in the Procedure Section. 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
New:	Procedures which are recorded as a Vital Sign do not have to be documented in the Procedure Section. Code list is represented in SNOMEDCT. Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html SNOMEDCT Website: http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html Product: Product - UMLS Metathesaurus

eResponse

eResponse.15 - Level of Care of This Unit

– Performance Measures:

> **Old:**
> **New:** All: Airway, Cardiac Arrest, Pediatric, Response, STEMI, Stroke, Trauma

eScene

eScene.09
– Data Element Comment Change:

Old:	Code list is represented in ICD-10-CM: Place of Occurrence of the external cause (Y92.0-Y92.9). ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus
New:	Code list is represented in ICD-10-CM. Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus

eSituation

eSituation.09 - Primary Symptom
eSituation.10 - Other Associated Symptoms
– Data Element Comment Change *(…in part)*:

Old:	Code list is represented in ICD-10-CM: Diagnoses Codes, see suggested NEMSIS list of provider impression codes. ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus
New:	Code list is represented in ICD-10-CM Diagnoses Codes. Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus

eSituation.11 - Provider's Primary Impression
eSituation.12 - Provider's Secondary Impressions
– Data Element Comment Change:

Old:	Code list is represented in ICD-10-CM: Diagnoses Codes, see suggested NEMSIS list of provider impression codes. ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus
New:	Code list is represented in ICD-10-CM. Reference the NEMSIS Suggested Lists at: http://nemsis.org/v3/resources.html ICD-10-CM Website - http://uts.nlm.nih.gov Product - UMLS Metathesaurus

Pattern Changes

Element Number	Element Name	v3.1.1 Pattern	V3.2.0 Pattern
dConfiguration.03	Procedures Permitted by the State	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	
dConfiguration.07	EMS Agency Procedures	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	
eCad.78	Incident Location Type	Y92(\.[0-9]{1,3})?	Y92\.[0-9]{1,3}
eHistory.06	Medication Allergies	Z88(\.[0-9])?|Z91.041|[A-Za-z0-9]{2,7}	(Z88\.[0-9])|([a-zA-Z0-9]{2,7})
eHistory.08	Medical/Surgical History	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	((([A-QS][0-9]{2})|(T(([0-2][0-9])|(3[0-4])))))(\.[0-9]{1,3})?)|(T((79)|(8[067]))(\..{1,3})?)|(T88(\.((0)|(1)|(4)|(6)|(7))))|(Z((7[7-9])|(8[0-7])|(89)|(9[0-9]))(\.[0-9]{1,3})?)|(((T73)|(Z((5[5-9])|(6[0-5])|(7[2-4]))))(\.[0-9])?)|((T((6[6-9])|(7[0|8])))(\.[0-9]{1,2})?)
eInjury.01	Cause of Injury	(T71\.(([1][1-9]([0-9])?)|([2-8][0-9]{0,2})|[9]))|(T((36\.[0-9][0-9]{0,2})|([4-5][0-9]\.[0-9]{1,3})|(6[0-5]\.(([0-8][0-9]{0,2})|(9[0-1][0-9]{0,1})|([9][^0-9A-Za-z])))))|(([V-X][0-9]{2}\.[0-9][0-9]{0,2})|(Y(3[0-8]|[0-2][0-9])\.[0-9][0-9]{0,2}))	(T((65\.((9[0-4][0-9])|(9[0-4])|(9)))|(3[6-9]\.[0-9][0-9]{0,2})|([4-5][0-9]\.[0-9][0-9]{0,2})|(6[0-4]\.[0-9][0-9]{0,2})|(65\.[0-8][0-9]{0,2})))|(T((71\.((1[1-9][0-9])|(1[1-9])))|(71\.(([2-9][0-9]{0,2}))))))|(T((75\.((0[0-9][0-9])|(0[0-9])|(00)))|(75\.([1-9][0-9]{0,2}))|(76\.([0-8][0-9]{0,2}))|(76\.((9[0-2][0-9]{0,1})|(9)))))|([V-W][0-9][0-9]\.[0-9][0-9]{0,2})|(Y[0-2][0-9]\.[0-9][0-9]{0,2})|(Y3[0-8]\.[0-9][0-9]{0,2})|(T((65\.((9[0-4][0-9])|(9[0-4])|(9)))|(3[6-9]\.[0-9][0-9]{0,2})|([4-5][0-9]\.[0-9][0-9]{0,2})|(6[0-4]\.[0-9][0-9]{0,2})|(65\.[0-8][0-9]{0,2})))

eOutcome.08	Emergency Department Recorded Cause of Injury	(T71\.((([1][1-9]([0-9])?)|([2-8][0-9]{0,2})|[9]))|(T((36\.[0-9][0-9]{0,2})|([4-5][0-9]\.[0-9]{1,3})|(6[0-5]\.(([0-8][0-9]{0,2})|(9[0-1][0-9]{0,1})|([9][^0-9A-Za-z]))))))|(([V-X][0-9]{2}\.[0-9][0-9]{0,2})|(Y(3[0-8]|[0-2][0-9])\.[0-9][0-9]{0,2}))	(T((65\.((9[0-4][0-9])|(9[0-4])|(9)))|(3[6-9]\.[0-9][0-9]{0,2})|([4-5][0-9]\.[0-9][0-9]{0,2})|(6[0-4]\.[0-9][0-9]{0,2})|(65\.[0-8][0-9]{0,2})))|(T((71\.((1[1-9][0-9])|(1[1-9])))|(71\.(([2-9][0-9]{0,2})))))|(T((75\.((0[0-9][0-9])|(0[0-9])|(00)))|(75\.([1-9][0-9]{0,2}))|(76\.([0-8][0-9]{0,2}))|(76\.((9[0-2][0-9]{0,1})|(9)))))|([V-W][0-9][0-9]\.[0-9][0-9]{0,2})|(Y[0-2][0-9]\.[0-9][0-9]{0,2})|(Y3[0-8]\.[0-9][0-9]{0,2})|(T((65\.((9[0-4][0-9])|(9[0-4])|(9)))|(3[6-9]\.[0-9][0-9]{0,2})|([4-5]\.[0-9][0-9]{0,2})|(6[0-4]\.[0-9][0-9]{0,2})|(65\.[0-8][0-9]{0,2})))
eOutcome.09	Emergency Department Procedures	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	[0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
eOutcome.10	Emergency Department Diagnosis	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	[0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
eOutcome.12	Hospital Procedures	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	[0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
eOutcome.13	Hospital Diagnosis	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	[0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
ePayment.51	EMS Condition Code	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	[0-9A-HJ-NP-Z][0-9A-Za-z]{1,6}
eProcedures.03	Procedure	[0-9A-HJ-NP-Z]([0-9A-Za-z]{1,6})?	
eScene.09	Incident Facility Code	Y92(\.[0-9]{1,3})?	Y92\.[0-9]{1,3}
eSituation.09	Primary Symptom	R[0-6][0-9](\.\d{0,4})?|R73.9|R99	R[0-6][0-9](\.[0-9]{0,4})?|R73.9|R99
eSituation.10	Other Associated Symptoms	R[0-6][0-9](\.\d{0,4})?|R73.9|R99	R[0-6][0-9](\.[0-9]{0,4})?|R73.9|R99
eSituation.11	Provider's Primary Impression	([A-Z]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?)|(S[0-9][0-9]\.([0-8]([0-9]{0,2})?|([0-9]([0-2]([0-9])?)?)))|(T14.9([0-1]([0-9]?))?|T((0[0-9])|(1[0-4]))\.[0-8][0-9]?)|(T((2[0-9]\.[0-9][0-9]{0,2})|(3[0-4]\.((99)|(9([0-8][0-9]?)?)|([0-8][0-9]{0,2})))))|(T7(([0-2]\.[0-9]{1,3})|(3\.[0-8][0-9]{0,2})|3\.9)|T6[6-9]\.[0-9]{1,3})|(T78\.[0-8][0-9]{0,2})	(((T73)|(Z((5[5-9])|(6[0-5])|(7[2-4]))))(\.[0-9]{1})?)|((T((6[6-9])|(7(0|8))))(\.[0-9]{1,2})?)|((([A-QS][0-9]{2})|(T(([0-2][0-9])|(3[0-4]))))(\.[0-9]{1,3})?)|(Z77(\.[0-9]{1,3})?)|(T((79)|(8[067]))(\..{1,3})?)|(T88(\.((0)|(1)|(4)|(6)|(7))))

| eSituation.12 | Provider's Secondary Impression | ([A-Z]{1}[0-9]{2}(\.[A-Za-z0-9]{1,4})?)|(S[0-9][0-9]\.([0-8]([0-9]{0,2})?|([0-9]([0-2]([0-9])?)?)))|(T14.9([0-1]([0-9]?))?|T((0[0-9])|(1[0-4]))\.[0-8][0-9]?)|(T((2[0-9]\.[0-9][0-9]{0,2})|(3[0-4]\.((99)|(9([0-8][0-9]?)?)|([0-8][0-9]{0,2})))))|(T7(([0-2]\.[0-9]{1,3})|(3\.[0-8][0-9]{0,2})|3\.9)|T6[6-9]\.[0-9]{1,3})|(T78\.[0-8][0-9]{0,2}) | (((T73)|(Z((5[5-9])|(6[0-5])|(7[2-4]))))(\.[0-9]{1})?)|((T((6[6-9])|(7(0|8))))(\.[0-9]{1,2})?)|((([A-QS][0-9]{2})|(T(([0-2][0-9])|(3[0-4]))))(\.[0-9]{1,3})?)|(Z77(\.[0-9]{1,3})?)|(T((79)|(8[067]))(\..{1,3})?)|(T88(\.((0)|(1)|(4)|(6)|(7)))) |