

NEMSYS v3.5.0 Change Log

NEMSYS Technical Assistance Center (TAC)

September 30, 2019

Updated November 30, 2019 for Critical Patch 1

Overview

This change log represents the updates made to the NEMESIS data standard released as version 3.5.0. Revisions made to the standard were provided by various stakeholders, carefully reviewed, and implemented where feasible.

The composition and changes charts are updated to reflect the differences between revisions of the NEMESIS V3 standard, rather than changes from version 2.

Descriptions of the sample element page are in the same section as that page. The descriptions were updated to clarify phrasing and include links to the referenced white papers.

Naming Convention

The naming convention for a NEMESIS release is as follows:

3.Major.Minor.BuildDateCP#

3 = NEMESIS version 3

Major: Significant improvements or changes in functionality

Minor: Minor feature changes or significant fixes

BuildDate: informational changes to comments/dictionary

CP# = Critical Patch where # is incremental and references the critical patch version

Format

This is an example of the format in which changes are described, where changes are part of the critical patch it will be indicated in the change description:

Add value, change value, change description (as it applies).	
Old:	“Identifier if the code used for patient medication allergies is based on an RxNorm code or an ICD-10 code.” Value “ICD10” with code 9924001
New:	“Identifier if the code used is based on an RxNorm code, an ICD-10 code, or a SNOMED-CT code.” Added value “SNOMED-CT” with code 9924005 Value “ICD-10” with code 9924001
Impacted elements:	eMedications.03
JIRA ticket:	NEMPUB-180

COLOR KEY

RED	Removed
GREEN	New
BLUE	Modified

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XSD Files Impacted

File	Change	File	Change
CADDDataSet	Removed	eAirway	Modified
MedDeviceDataSet	Removed	eArrest	Modified
commonTypes	Modified	eCrew	Modified
dAgency	Modified	eCustom	Modified
dConfiguration	Modified	eDevice	Modified
dContact	Modified	eDispatch	Modified
dCustom	Modified	eDisposition	Modified
dDevice	Modified	eExam	Modified
DEMDDataSet	Modified	eHistory	Modified
dFacility	Modified	eInjury	Modified
dLocation	Modified	eLabs	Modified
dPersonnel	Modified	eMedications	Modified
dVehicle	Modified	EMSDataSet	Modified
sAgency	New	eNarrative	No Changes
sConfiguration	New	eOther	Modified
sdCustom	New	eOutcome	Modified
seCustom	New	ePatient	Modified
sElement	New	ePayment	Modified
sFacility	New	eProcedures	Modified
sSoftware	New	eProtocols	Modified
sState	New	eRecord	Modified
StateDataSet	Modified	eResponse	Modified
		eScene	Modified
		eSituation	Modified
		eTimes	Modified
		eVitals	Modified

Color Key

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commonTypes

CardiacRhythm

Add value

Description: Added value of “Non-STEMI Septal Ischemia” with code 9901030
Added value of “STEMI Septal Ischemia” with code 9901058

Impacted elements: eVitals.03

JIRA ticket: [NEMPUB-36](#)

CodeType

Add value, change value, change description.

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

Value “ICD10” with code 9924001

New: “Identifier if the code used is based on an RxNorm code, an ICD-10 code, or a SNOMED-CT code.”

Added value “SNOMED-CT” with code 9924005

Value “ICD-10” with code 9924001

Impacted elements: [eMedications.03](#), [dConfiguration.09](#), [sConfiguration.05](#)

JIRA ticket: [NEMPUB-180](#)

CurrentMedicationAdministrationRoute

Add values

Description: Added value of “Auto Injector” with code 9927063
Added value of “BVM” with code 9927065
Added value of “CPAP” with code 9927067
Added value of “IV Pump” with code 9927069
Added value of “Nebulizer” with code 9927071
Added value of “Umbilical Artery Catheter” with code 9927073
Added value of “Umbilical Venous Catheter” with code 9927075

Impacted elements: [eMedications.04](#)

JIRA ticket: [NEMPUB-40](#)

DateOfBirth

Move to commonTypes

Description: Used in multiple elements which necessitates the definition being in commonTypes.

DBP

Change pattern

Old: [5][0][0]|1-4][0-9][0-9]||[0]||[1-9][0-9]|P|p

New: [5][0][0]|1-4][0-9][0-9]||[0-9]||[1-9][0-9]|P|p

Impacted elements: eVitals.07

JIRA ticket: [NEMPUB-29](#)

EMSCaregiverLevel

Add, remove, and change values

Old:

Value	Code
2009 Advanced Emergency Medical Technician (AEMT)	9905001
2009 Emergency Medical Responder (EMR)	9905003
2009 Emergency Medical Technician (EMT)	9905005
2009 Paramedic	9905007
EMT-Basic	9905009
EMT-Intermediate	9905011
EMT-Paramedic	9905013
First Responder	9905015
Other Healthcare Professional	9905019
Other Non-Healthcare Professional	9905021
Patient/Lay Person	9905023
Physician	9905025
Respiratory Therapist	9905027
Student	9905029
Critical Care Paramedic	9905031
Community Paramedicine	9905033
Nurse Practitioner	9905035
Physician Assistant	9905037
Licensed Practical Nurse (LPN)	9905039
Registered Nurse	9905041

New:

Value	Code
Advanced Emergency Medical Technician (AEMT)	9905001
Emergency Medical Technician – Intermediate	9905002
Emergency Medical Responder (EMR)	9905003
Emergency Medical Technician (EMT)	9905005
Paramedic	9905007
Other Healthcare Professional	9905019
Other Non-Healthcare Professional	9905021
Physician	9905025
Respiratory Therapist	9905027
Student	9905029
Critical Care Paramedic	9905031
Community Paramedicine	9905033

Nurse Practitioner	9905035
Physician Assistant	9905037
Licensed Practical Nurse (LPN)	9905039
Registered Nurse	9905041
Patient	9905043
Lay Person	9905045
Law Enforcement	9905047
Family Member	9905049
Fire Personnel (non EMS)	9905051

Impacted Elements: eMedications.10, eProcedures.10

JIRA ticket: [NEMPUB-14](#), [NEMPUB-60](#)

Gender

Add values

Description: Added value “Female-to-Male, Transgender Male” with code 9906007
 Added value “Male-to-Female, Transgender Female” with code 9906009
 Added value “Other, neither exclusively male or female” with code 9906011

Impacted Elements: [ePatient.13](#), [dPersonnel.12](#)

JIRA ticket: [NEMPUB-9](#)

HospitalDesignation

Add and remove values

Description: Removed value “Stroke Center” with code 9908017
 Added value “Stroke-Acute Stroke Ready Hospital (ASRH)” with code 9908037
 Added value “Stroke-Primary Stroke Center (PSC)” with code 9908039
 Added value “Stroke-Thrombectomy-Capable Stroke Center (TSC)” with code 9908041
 Added value “Stroke-Comprehensive Stroke Center (CSC)” with code 9908043
 Added value “Cancer Center” with code 9908045
 Added value “Labor and Delivery” with code 9908047

Impacted Elements: [dFacility.04](#), eDisposition.23

JIRA ticket: [NEMPUB-15](#), [NEMPUB-16](#), [NEMPUB-89](#)

icd10Code

Change pattern

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

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

Impacted Elements: [eOutcome.10](#), [eOutcome.13](#), ePayment.51

JIRA ticket: [NEMPUB-6](#)

icd10CodeOutcomeDiagnosis

Remove enumeration

Description: Type is made redundant by the change made to icd10Code above. References were changed to icd10Code.

Impacted Elements: [eOutcome.13](#)

JIRA ticket: [NEMPUB-6](#)

ImmunizationType

Add value

Description: Added value “None” with code 9910053

Impacted Elements: [eHistory.10](#)

JIRA ticket: [NEMPUB-11](#)

LicensureLevels

SimpleType Removed

Impacted Elements: [dConfiguration.02](#)

JIRA ticket: [NEMPUB-14](#), [NEMPUB-278](#)

Medication

Change constraints

Old: maxLength=7

New: maxLength=9

Impacted Elements: [eMedications.03](#), [dConfiguration.09](#), [sConfiguration.05](#)

JIRA ticket: [NEMPUB-180](#), [NEMPUB-186](#)

PN

Add values

Description: Added value “Not Immunized” with code 8801025
Added value “Order Criteria Not Met” with code 8801027
Added value “Approximate” with code 8801029
Added value “Symptom Not Present” with code 8801031

Impacted Elements: [eHistory.10](#), [eProcedures.03](#), [eMedications.03](#), [eSituation.01](#), [eSituation.10](#)

JIRA ticket: [NEMPUB-12](#), [NEMPUB-11](#), [NEMPUB-13](#), [NEMPUB-41](#), [NEMPUB-178](#), [NEMPUB-179](#)

StateCertificationLicensureLevels

Add, remove, and change values

Old:

Value	Code
2009 Advanced Emergency Medical Technician (AEMT)	9917001
2009 Emergency Medical Responder (EMR)	9917003
2009 Emergency Medical Technician (EMT)	9917005
2009 Paramedic	9917007
EMT-Basic	9917009
EMT-Intermediate	9917011
EMT-Paramedic	9917013
First Responder	9917015
Physician	9917019
Critical Care Paramedic	9917021
Community Paramedicine	9917023
Nurse Practitioner	9917025
Physician Assistant	9917027
Licensed Practical Nurse (LPN)	9917029
Registered Nurse	9917031

New:

Value	Code
Advanced Emergency Medical Technician (AEMT)	9917001
Emergency Medical Technician – Intermediate	9917002
Emergency Medical Responder (EMR)	9917003
Emergency Medical Technician (EMT)	9917005
Paramedic	9917007
Physician	9917019
Critical Care Paramedic	9917021
Community Paramedicine	9917023
Nurse Practitioner	9917025
Physician Assistant	9917027
Licensed Practical Nurse (LPN)	9917029
Registered Nurse	9917031

Impacted Elements: dAgency.11, dVehicle.05

JIRA ticket: [NEMPUB-14](#)

UUID

New enumeration

Description: Used as an attribute for several groups and elements.
 Definition: “A universally unique identifier used to track persistent objects over time.”
 Pattern: “[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[1-5][a-fA-F0-9]{3}-[89abAB][a-fA-F0-9]{3}-[a-fA-F0-9]{12}”

Impacted Elements: [dAgency.AgencyServiceGroup](#), [dAgency.AgencyYearGroup](#), [dContact.ContactInfoGroup](#), [dConfiguration.ConfigurationGroup](#), [dConfiguration.ProcedureGroup](#), [dConfiguration.MedicationGroup](#), [dLocation.LocationGroup](#), [dVehicle.VehicleGroup](#), [dVehicle.VehicleCertificationLevelsGroup](#), [dVehicle.YearGroup](#), [dPersonnel.PersonnelGroup](#),

[dPersonnel.ImmunizationsGroup](#), [dPersonnel.LicensureGroup](#), [dPersonnel.CertificationLevelGroup](#),
[dDevice.DeviceGroup](#), [dFacilityGroup](#), [dFacility.FacilityGroup](#)

JIRA ticket: [NEMPUB-150](#), [NEMPUB-292](#)

MemberLevel

Add, remove, and change values

Old:

Value	Code
2009 Advanced Emergency Medical Technician (AEMT)	9925001
2009 Emergency Medical Responder (EMR)	9925003
2009 Emergency Medical Technician (EMT)	9925005
2009 Paramedic	9925007
First Responder	9925013
EMT-Basic	9925015
EMT-Intermediate	9925017
EMT-Paramedic	9925019
Other Healthcare Professional	9925023
Other Non-Healthcare Professional	9925025
Physician	9925027
Respiratory Therapist	9925029
Student	9925031
Critical Care Paramedic	9925033
Community Paramedicine	9925035
Nurse Practitioner	9925037
Physician Assistant	9925039
Licensed Practical Nurse (LPN)	9925041
Registered Nurse	9925043

New:

Value	Code
Advanced Emergency Medical Technician (AEMT)	9925001
Emergency Medical Technician – Intermediate	9925002
Emergency Medical Responder (EMR)	9925003
Emergency Medical Technician (EMT)	9925005
Paramedic	9925007
Other Healthcare Professional	9925023
Other Non-Healthcare Professional	9925025
Physician	9925027
Respiratory Therapist	9925029
Student	9925031
Critical Care Paramedic	9925033
Community Paramedicine	9925035
Nurse Practitioner	9925037
Physician Assistant	9925039
Licensed Practical Nurse (LPN)	9925041
Registered Nurse	9925043

Impacted Elements: eCrew.02, [dPersonnel.24](#)

JIRA ticket: [NEMPUB-14](#)

FacilityCode

Moved to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

FacilityDepartment

Moved to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

FacilityName

Move to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

FacilityRoom

Move to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

TypeOfFacility

Move to commonTypes, add values

Description: Moved to commonTypes to support changes to StateDataSet

Old:

Value	Code
Assisted Living Facility	1701001
Clinic	1701003
Hospital	1701005
Nursing Home	1701007
Other	1701009
Urgent Care	1701011
Rehabilitation Facility	1701013
Mental Health Facility	1701015
Dialysis Center	1701017

New:

Value	Code
Assisted Living Facility	1701001
Clinic	1701003
Hospital	1701005
Nursing Home	1701007
Other	1701009
Urgent Care	1701011

Physical Rehabilitation Facility	1701013
Mental Health Facility	1701015
Dialysis Center	1701017
Diagnostic Services	1701019
Freestanding Emergency Department	1701021
Morgue/Mortuary	1701023
Police/Jail	1701025
Other EMS Responder (air)	1701027
Other EMS Responder (ground)	1701029
Other Recurring Care Center	1701031
Drug and/or Alcohol Rehabilitation Facility	1701033
Skilled Nursing Facility	1701035

Impacted Elements: dFacility.01, [sFacility.01](#)

JIRA ticket: [NEMPUB-144](#)

SoftwareCreator

Move to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

SoftwareName

Move to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

SoftwareVersion

Move to commonTypes

Description: Moved to commonTypes to support changes to StateDataSet

CustomDefinition

Critical Patch: Change constraints

Description: The minLength constraint was changed from 0 to 2.

Impacted Elements: eCustomConfiguration.02, dCustomConfiguration.02, seCustomConfiguration.02, sdCustomConfiguration.02

JIRA ticket: [NEMPUB-320](#)

CorrelationId

Critical Patch: Change constraints

Description: The minLength constraint was changed from 0 to 2.

Impacted Elements: All elements marked in the data dictionary with "C"

JIRA ticket: [NEMPUB-322](#)

dAgency

dAgency.15

Demote national element

Old: National: Yes
Usage: Mandatory
NV: No
Recurrence: 1:1
Nillable: No

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1
Nillable: Yes

JIRA ticket: [NEMPUB-70](#)

dAgency.16

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1
Removed extra definition tags in XSD.

JIRA ticket: [NEMPUB-71](#), [NEMPUB-85](#)

dAgency.17

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

Removed extra definition tags in XSD.

Corresponding Enumeration: [AnnualAgencyStatistics](#)

JIRA ticket: [NEMPUB-72](#), [NEMPUB-85](#)

dAgency.18

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

JIRA ticket: [NEMPUB-73](#)

dAgency.19

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

JIRA ticket: [NEMPUB-74](#)

dAgency.20

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

JIRA ticket: [NEMPUB-75](#)

dAgency.21

Demote national element

Old: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

JIRA ticket: [NEMPUB-76](#)

dAgency.AgencyYearGroup

Add attribute

New: Added required UUID attribute

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-153](#)

dAgency.AgencyServiceGroup

Add attribute

New: Added required UUID attribute

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-152](#)

AnnualAgencyStatistics

Change constraints

Old: maxInclusive=4000000
New: maxInclusive=400000000

Impacted Elements: [dAgency.17](#)

JIRA ticket: [NEMPUB-48](#)

dConfiguration

dConfiguration.01

Change name, definition, id, data element comment

- Old:** Name: State Associated with the Certification/Licensure Levels
Definition: "The state associated with the state certification/licensure levels."
Comment: "Associated with the state (dAgency.01 – EMS Agency State)..."
- New:** Name: State Associated with this Configuration
Definition: "The state associated with this configuration."
Comment: "Associated with the state (dAgency.04 – EMS Agency State)..."

JIRA ticket: [NEMPUB-250](#)

dConfiguration.02

Remove element

JIRA ticket: [NEMPUB-113](#)

dConfiguration.03

Remove element

JIRA ticket: [NEMPUB-110](#)

dConfiguration.04

Remove element

JIRA ticket: [NEMPUB-111](#)

dConfiguration.05

Remove element

JIRA ticket: [NEMPUB-112](#)

dConfiguration.ProcedureGroup

Add attribute

Description: Added required UUID attribute.

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-156](#)

dConfiguration.09

Change data element comment, add attribute

Description: Added attribute for CodeType to specific the medication code type.
Added a list of allowable SNOMED-CT codes for blood products to comment.

Corresponding Enumeration: [CodeType](#), [Medication](#)

JIRA ticket: [NEMPUB-186](#)

dConfiguration.MedicationGroup

Add attribute

Description: Added required UUID attribute.

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-157](#)

dConfiguration.11

Demote national element

Old: National: Yes
Usage: Mandatory
NV: No
Recurrence: 1:M
Nillable: No

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:M
Nillable: Yes

JIRA ticket: [NEMPUB-77](#)

dConfiguration.15

Demote national element

Old: National: Yes
Usage: Mandatory
NV: No
Recurrence: 1:M
Nillable: No

New: National: No
Usage: Recommended
NV: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:M
Nillable: Yes

JIRA ticket: [NEMPUB-78](#)

dConfiguration.ConfigurationGroup

Add attribute

Description: Added required attribute UUID.

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-155](#)

dContact

dContact.ContactInfoGroup

Add attribute

Description: Added required attribute UUID.

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-154](#)

dCustom

Trivial change made to element definitions to add periods at the end of sentences.

dDevice

dDevice.DeviceGroup

Add attribute

Description: Added required UUID attribute.

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-166](#)

DEMDataSet

dState

Remove section

Description: dState section removed, information now included in StateDataSet

Impacted Elements: dState.01

JIRA ticket: [NEMPUB-183](#)

dFacility

Change XSD documentation

Old: <xs:documentation>Device Information</xs:documentation>

New: <xs:documentation>Facility Information</xs:documentation>

JIRA ticket: [NEMPUB-185](#)

dFacility

dFacility.04

Add data element comment

Description: “Stroke Center classifications based on Joint Commission stroke certification:
https://www.jointcommission.org/facts_about_joint_commission_stroke_certification/”

Corresponding Enumeration: [HospitalDesignation](#)

JIRA ticket: [NEMPUB-15](#), [NEMPUB-89](#)

dFacility.14

Change definition

Old: “Facility US National Grid Coordinates”

New: “The facility’s US National Grid coordinates.”

dFacility.15

Change definition

Old: “Facility phone number”

New: “The facility’s phone number”

dFacility.FacilityGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-168](#)

dFacilityGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-167](#)

dLocation

dLocation.LocationGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-158](#)

dPersonnel

dPersonnel.12

Add data element comment

Description: Added comment to describe new values available, “Code list referenced from: <https://www.healthit.gov/isa/sex-birth-sexual-orientation-and-gender-identity>”

Corresponding Enumeration: [Gender](#)

JIRA ticket: [NEMPUB-9](#)

dPersonnel.ImmunizationsGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-163](#)

dPersonnel.LicensureGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-164](#)

dPersonnel.CertificationLevelGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-165](#)

dPersonnel.PersonnelGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-162](#)

dPersonnel.24

Change data element comment

- Old:** “Added 2009 EMS Education Levels.
The category EMT-Intermediate includes EMS professionals with an "85" or "99" certification level.
Some listed health care providers may not have an EMS certification/licensure number, however their level should be indicated from the list above and the state licensure number should be indicated in dPersonnel.23 - EMS Personnel's State's Licensure ID Number.”
- New:** “The category Emergency Medical Technician - Intermediate includes EMS professionals with an "85" or "99" certification level.
Some listed health care providers may not have an EMS certification/licensure number, however their level should be indicated from the list above and the state licensure number should be indicated in dPersonnel.23 - EMS Personnel's State's Licensure ID Number.”

Corresponding Enumeration: [MemberLevel](#)

JIRA ticket: [NEMPUB-14](#)

NationalRegistryCertificaitonLevel

Add, remove, and change values

Old:

Value	Code
2009 Advanced Emergency Medical Technician (AEMT)	1529001
2009 Emergency Medical Responder (EMR)	1529003
2009 Emergency Medical Technician	1529005
2009 Paramedic	1529007
EMT-Basic	1529009
EMT-Intermediate	1529011
EMT-Paramedic	1529013
First Responder	1529015

New:

Value	Code
Advanced Emergency Medical Technician (AEMT)	1529001
Emergency Medical Technician – Intermediate	1529002
Emergency Medical Responder (EMR)	1529003
Emergency Medical Technician (EMT)	1529005
Paramedic	1529007

Impacted Elements: dPersonnel.29

JIRA ticket: [NEMPUB-14](#)

dVehicle

dVehicle.05

Change data element comment

Old: "The new 2009 EMS Educational Levels have been added. The category EMT-Intermediate includes EMS professionals with an "85" or "99" certification level."
New: "The category Emergency Medical Technician - Intermediate includes EMS professionals with an "85" or "99" certification level."

Corresponding Enumeration: [StateCertificationLicensureLevels](#)
JIRA ticket: [NEMPUB-14](#)

dVehicle.VehicleGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)
JIRA ticket: [NEMPUB-159](#)

dVehicle.VehicleCertificationLevelsGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)
JIRA ticket: [NEMPUB-160](#)

dVehicle.YearGroup

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)
JIRA ticket: [NEMPUB-161](#)

eAirway

DeviceConfirmationMethods

Add value

Description: Added value "Chest Rise" with code 4004021

Impacted Elements: eAirway.04

JIRA ticket: [NEMPUB-80](#)

TubeDepth

Change constraint

Old: minInclusive=8

New: minInclusive=4

Impacted Elements: eAirway.05

JIRA ticket: [NEMPUB-175](#)

eArrest

eArrest.01

Change data element comment

- Old:** “This element is a component of the Utstein Cardiac Arrest Criteria.
If this EMS event is for an interfacility transfer of a patient with a recent history of a cardiac arrest with ROSC, and who does not experience another cardiac arrest during transport, then do not document Cardiac Arrest (eArrest.01) with "Yes, Prior to EMS Arrival".”
- New:** “This element is a component of the Utstein Cardiac Arrest Criteria.
If this EMS event is for an interfacility transfer of a patient with a recent history of a cardiac arrest with ROSC, and who does not experience another cardiac arrest during transport, then do not document Cardiac Arrest (eArrest.01) with "Yes, Prior to Any EMS Arrival (includes Transport EMS & Medical First Responders)".
EMS is defined as Emergency Medical Services personnel and Medical First Responder personnel who respond to a medical emergency in an official capacity as part of an organized medical response team. By this definition, physicians, nurses, or paramedics who witness a cardiac arrest and initiate CPR, but are not part of the organized medical response team are characterized as bystanders and are not part of the EMS system.
Medical First Responders are defined as personnel who are dispatched through the 911 system, respond in an official capacity, have the capability and/or training to provide emergency medical care, but are not the designated transporter of the patient. Thus, law enforcement officers who respond in an official capacity to a cardiac arrest, have the capability and/or training to provide emergency medical care (e.g., carry AEDs in their patrol vehicles, hold EMR licensure, are CPR certified, etc.) are considered Medical First Responders for the purposes of this data element. Responders dispatched through the 911 system with no capability of providing emergency medical care are not considered Medical First Responders. For example, towing and wrecking responding to a vehicle crash, or law enforcement officers who do not provide any emergency medical care would not be considered Medical First Responders.
For States and Local agencies that participate in the Cardiac Arrest Registry for Enhanced Survival (CARES), “Any EMS Arrival” includes 911 Responders (First Responder or EMS) as defined by CARES in the CARES Data Dictionary.
This NEMSIS data element is used to answer CARES data element #20 Arrest After Arrival of 911 Responder.”

Corresponding Enumeration: [CardiacArrest](#)

JIRA ticket: [NEMPUB-117](#)

eArrest.02

Change comment

- Old:** “This element is a component of the Utstein Cardiac Arrest Criteria.
Following the UTSTEIN standard of cardiac arrest etiology the values were determined based on 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>"

New: "This element is a component of the Utstein Cardiac Arrest Criteria."

Corresponding Enumeration: [CardiacArrestEtiology](#)

JIRA ticket: [NEMPUB-118](#)

eArrest.03

Change data element comment

Old: "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>"

New: "This element is a component of the Utstein Cardiac Arrest Criteria."

JIRA ticket: [NEMPUB-120](#)

eArrest.04

Remove data element comment

Old: "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>"

Corresponding Enumeration: [ArrestWitnessedBy](#)

JIRA ticket: [NEMPUB-119](#)

eArrest.05

Remove element

JIRA ticket: [NEMPUB-121](#)

eArrest.06

Remove element

JIRA ticket: [NEMPUB-122](#)

eArrest.07

Change data element comment

Old: "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>.”

New: “This element is a component of the Utstein Cardiac Arrest Criteria”

JIRA ticket: [NEMPUB-124](#)

eArrest.08

Remove element

Corresponding Enumeration: [WhoUsedAED](#)

JIRA ticket: [NEMPUB-125](#)

eArrest.10

Add element

Description: Previously deprecated element added for Therapeutic Hypothermia by EMS. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-129](#)

eArrest.11

Change data element comment

Old: “Added term "Arrest" to title to clarify this is the arrest rhythm
Values "Other" and "Normal Sinus Rhythm" removed since they are not Cardiac Arrest Rhythms.
Value "Ventricular Tachycardia" has been changed to "Ventricular Tachycardia-Pulseless".
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>”

New: “Added term "Arrest" to title to clarify this is the arrest rhythm.
Values "Other" and "Normal Sinus Rhythm" removed since they are not Cardiac Arrest Rhythms.
Value "Ventricular Tachycardia" has been changed to "Ventricular Tachycardia-Pulseless”.”

JIRA ticket: [NEMPUB-130](#)

eArrest.12

Change data element comment

Old: “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>

This element needs to be documented when the patient has been in cardiac arrest and transported to a healthcare facility to show the change in patient condition, if any.

Any ROSC is defined as any brief (approximately >30 seconds) restoration of spontaneous circulation that provides evidence of more than an occasional gasp, occasional fleeting palpable pulse, or arterial waveform.”

New: “This element needs to be documented when the patient has been in cardiac arrest and transported to a healthcare facility to show the change in patient condition, if any. Any ROSC is defined as any brief (approximately >30 seconds) restoration of spontaneous circulation that provides evidence of more than an occasional gasp, occasional fleeting palpable pulse, or arterial waveform.”

JIRA ticket: [NEMPUB-131](#)

eArrest.13

Change data element comment

Description: Removed line “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>”

JIRA ticket: [NEMPUB-132](#)

eArrest.14

Change data element comment

Description: Removed line “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>”

JIRA ticket: [NEMPUB-133](#)

eArrest.18

Change data element comment

Old: “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>”

New: “Added to better identify the outcome of EMS cardiac arrest patients.”

JIRA ticket: [NEMPUB-134](#)

eArrest.20

New element

Description: Previously deprecated element added for Who First Initiated CPR. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [WhoFirstInitiatedCPR](#)

JIRA ticket: [NEMPUB-123](#)

eArrest.21

New element

Description: Previously deprecated element added for Who First Applied the AED. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Impacted Elements: [WhoFirstAppliedAED](#)

JIRA ticket: [NEMPUB-126](#)

eArrest.22

New element

Description: Previously deprecated element added for Who First Defibrillated the Patient. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Impacted Elements: [WhoFirstDefibrillated](#)

JIRA ticket: [NEMPUB-127](#)

ArrestWitnessedBy

Change values

Old: Value "Witnessed by Lay Person" with code 3004007

New: Value "Witnessed by Bystander" with code 3004007

Impacted Elements: [eArrest.04](#)

JIRA ticket: [NEMPUB-119](#)

CardiacArrest

Change values

Old: Value "Yes, Prior to EMS Arrival" with code 3001003

Value "Yes, After EMS Arrival" with code 3001005

New: Value "Yes, Prior to Any EMS Arrival (includes Transport EMS & Medical First Responders)" with code 3001003

Value "Yes, After Any EMS Arrival (includes Transport EMS & Medical First Responders)" with code 3001005

Impacted Elements: [eArrest.01](#)

JIRA ticket: [NEMPUB-117](#)

CardiacArrestEtiology

Remove and change values

Old:

Value	Code
Cardiac (Presumed)	3002001
Drowning/Submersion	3002003
Drug Overdose	3002005
Electrocution	3002007
Exsanguination	3002009
Other	3002011
Respiratory/Asphyxia	3002013
Trauma	3002015

New:

Value	Code
Cardiac (Presumed)	3002001
Drowning/Submersion	3002003
Drug Overdose	3002005
Electrocution	3002007
Exsanguination-Medical (Non-Traumatic)	3002009
Other	3002011
Respiratory/Asphyxia	3002013
Traumatic Cause	3002015

Impacted Elements: [eArrest.02](#)

JIRA ticket: [NEMPUB-118](#), [NEMPUB-274](#)

CPRType

Add and change values

Description: Changed value "Compressions-Continuous" with code 3009001 to "Compressions-Manual" with same value.
Added value "Compressions-Hands Only CPR" with code 3009021
Added value "Ventilation-with OPA/NPA" with code 3009023
Added value "Ventilation-Advanced Airway Device with code 3009025
Added value "Ventilation-Passive Ventilation with Oxygen" with code 3009027

Impacted Elements: [eArrest.09](#)

JIRA ticket: [NEMPUB-128](#)

WhoProvided

Remove enumeration

Impacted Elements: [eArrest.06](#)

JIRA ticket: [NEMPUB-122](#)

WhoFirstInitiatedCPR

New enumeration

Description: New enumeration that goes with eArrest.20 – Who First Initiated CPR. Please see eArrest.20 in the NEMESIS v3.5.0 Data Dictionary for a full description of values and codes.

Impacted Elements: [eArrest.20](#)

JIRA ticket: [NEMPUB-123](#)

WhoUsedAED

Remove enumeration

Impacted Elements: [eArrest.08](#)

JIRA ticket: [NEMPUB-125](#)

WhoFirstAppliedAED

New enumeration

Description: New enumeration that goes with eArrest.21 – Who First Applied the AED. Please see eArrest.21 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eArrest.21](#)

JIRA ticket: [NEMPUB-126](#)

WhoFirstDefibrillated

New enumeration

Description: New enumeration that goes with eArrest.22 – Who First Defibrillated the Patient. Please see eArrest.22 in the NEMESIS v3.5.0 Data Dictionary for a full description of values and codes.

Impacted Elements: [eArrest.22](#)

JIRA ticket: [NEMPUB-127](#)

eCrew

eCrew.03

Change description

Old: “The role(s) of the role member during response, at scene treatment, and/or transport.”

New: “The role(s) of the crew member during response, at scene treatment, and/or transport.”

eCustom

Trivial change made to some element definitions to add periods at the end of sentences.

eDevice

Trivial change made to some element definitions to add periods at the end of sentences.

MedicalDeviceEventType

Change value

Old: Value "Date Transmitted" with code 4103007

New: Value "Data Transmitted" with code 4103007

Impacted Elements: eDevice.03

JIRA ticket: [NEMPUB-43](#)

eDispatch

Trivial change made to some element definitions to add periods at the end of sentences.

eDispatch.01

Change name, definition, id

Old: Name: Complaint Reported by Dispatch
Definition: The complaint dispatch reported to the responding unit.
Id: eDispatch.ComplaintReportedbyDispatch

New: Name: Dispatch Reason
Definition: The dispatch reason reported to the responding unit.
Id: eDispatch.DispatchReason

Corresponding enumeration: [DispatchReason](#)

JIRA ticket: [NEMPUB-35](#), [NEMPUB-62](#)

DispatchReason

Rename enumeration, add values

Description: Enumeration renamed to DispatchReason to align with the renamed eDispatch.01 – Dispatch Reason.

Added value “Altered Mental Status” with code 2301085

Added value “Intercept” with code 2301087

Added value “Nausea” with code 2301089

Added value “Vomiting” with code 2301091

Impacted Elements: [eDispatch.01](#)

JIRA ticket: [NEMPUB-35](#)

eDisposition

Trivial change made to some data element comments to improve link functionality. Trivial change made to some element definitions to add periods at the end of sentences.

eDisposition.12

Remove element

Description: This element was removed and replaced with five new elements.

Corresponding Enumeration: [IncidentPatientDisposition](#)

JIRA ticket: [NEMPUB-138](#)

eDisposition.IncidentDispositionGroup

New group

Description: Group added to hold the five new eDisposition elements. Please see the NEMESIS v3.5.0 Data Dictionary complete details.

Impacted Elements: [eDisposition.27](#), [eDisposition.28](#), [eDisposition.29](#), [eDisposition.30](#), [eDisposition.31](#)

JIRA ticket: [NEMPUB-90](#)

eDisposition.27

New element

Description: Element “Unit Disposition” added to replace some of the information previously contained in eDisposition.12. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [UnitDisposition](#)

JIRA ticket: [NEMPUB-91](#)

eDisposition.28

New element

Description: Element “Patient Evaluation/Care” added to replace some of the information previously contained in eDisposition.12. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [PatientEvaluationCare](#)

JIRA ticket: [NEMPUB-92](#)

eDisposition.29

New element

Description: Element “Crew Disposition” added to replace some of the information previously contained in eDisposition.12. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Critical Patch: Revised data element comments to remove reference to a “Referral Agency”

Corresponding Enumeration: [CrewDisposition](#)

JIRA ticket: [NEMPUB-93](#), [NEMPUB-288](#), [NEMPUB-318](#)

eDisposition.30

New element

Description: Element “Transport Disposition” added to replace some of the information previously contained in eDisposition.12. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [TransportDisposition](#)

JIRA ticket: [NEMPUB-94](#)

eDisposition.31

New element

Description: Element “Reason for Refusal/Release” added to replace some of the information previously contained in eDisposition.12. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Critical Patch: Added CorrelationId attribute.

Corresponding Enumeration: [ReasonForRefusalRelease](#)

JIRA ticket: [NEMPUB-95](#), [NEMPUB-317](#)

eDisposition.13

Change description

Old: “The method the patient was moved to the ambulance from the scene”

New: “The method by which the patient was moved to the ambulance from the scene.”

eDisposition.15

Change name, definition, id, recurrence

Old: Name: How Patient Was Transported From Ambulance

Definition: The method the patient was moved from the ambulance to the destination

Id: eDisposition.HowPatientWasTransportedFromAmbulance

Recurrence: 0:1

New: Name: How Patient Was Moved From Ambulance

Definition: The method by which the patient was moved from the ambulance to the destination.

Id: eDisposition.HowPatientWasMovedFromAmbulance

Recurrence: 0:M

Critical Patch: Added CorrelationId attribute.

JIRA ticket: [NEMPUB-47](#), [NEMPUB-317](#)

eDisposition.16

Change definition

Old: "Transport method by this EMS Unit"

New: "The method of transport by this EMS Unit"

eDisposition.19

Change data element comment

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

<http://www.nhtsa.gov/people/injury/ems/emscorecontent/images/EMSCoreContent.pdf>"

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

<http://www.nhtsa.gov/people/injury/ems/emscorecontent/images/EMSCoreContent.pdf>

Dead without Resuscitation Efforts would be appropriate if resuscitation was initiated by non-EMS personnel but discontinued immediately upon evaluation by first arriving EMS personnel.

"Non-Acute/Routine" added for use with patients with no clinical issues-such as a refusal for a life assist-or for routine transfers. "Dead with Resuscitation Efforts (Black)" added for EMS units that arrived and provided resuscitation to a critical patient, but who was deceased at the end of the event (such as in a cardiac arrest)."

JIRA ticket: [NEMPUB-142](#)

eDisposition.20

Change data element comment

Old: "Required if Patient Transported"

New: "Required if the patient was transported."

eDisposition.23

Change recurrence, data element comment

Old: Recurrence: 1:1

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

New: Recurrence: 1:M
 Comment: “To be documented when eDisposition.21 (Type of Destination) is 1) Hospital-Emergency Department, 2) Hospital-Non-Emergency Department Bed, or 3) Freestanding Emergency Department.
 Stroke Center classifications based on Join Commission stroke certification:
https://www.jointcommission.org/facts_about_joint_commission_stroke_certification/
Critical Patch: Added CorrelationId attribute.

Corresponding Enumeration: [HospitalDesignation](#)
JIRA ticket: [NEMPUB-16](#), [NEMPUB-98](#), [NEMPUB-317](#)

eDisposition.32

New element

Description: New element “Level of Care Provided per Protocol” added. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [LevelOfCareProvidedPerProtocol](#)
JIRA ticket: [NEMPUB-146](#)

HospitalInPatientDestination

Change value

Description: Value changed for “Labor and Delivery” (code 4222015) to remove the & symbol.

Impacted Elements: eDisposition.22
JIRA ticket: [NEMPUB-57](#), [NEMPUB-290](#)

IncidentPatientDisposition

Remove enumeration

Description: Corresponding element eDisposition.12 removed.

Impacted Elements: [eDisposition.12](#)
JIRA ticket: [NEMPUB-138](#)

TypeOfDestination

Add, change, and remove values

Old:

Value	Code
Home	4221001
Hospital-Emergency Department	4221003
Hospital-Non-Emergency Department	4221005
Medical Office/Clinic	4221007
Morgue/Mortuary	4221009

Nursing Home/Assisted Living Facility	4221011
Other	4221013
Other EMS Responder (air)	4221015
Other EMS Responder (ground)	4221017
Police/Jail	4221019
Urgent Care	4221021
Freestanding Emergency Department	4221023

New:

Value	Code
Home	4221001
Hospital-Emergency Department	4221003
Hospital-Non-Emergency Department	4221005
Clinic	4221007
Morgue/Mortuary	4221009
Other	4221013
Other EMS Responder (air)	4221015
Other EMS Responder (ground)	4221017
Police/Jail	4221019
Urgent Care	4221021
Freestanding Emergency Department	4221023
Dialysis Center	4221025
Diagnostic Services	4221027
Assisted Living Facility	4221029
Mental Health Facility	4221031
Nursing Home	4221033
Other Recurring Care Center	4221035
Physical Rehabilitation Facility	4221037
Drug and/or Alcohol Rehabilitation Facility	4221039
Skilled Nursing Facility	4221041

Impacted Elements: eDisposition.21

JIRA ticket: [NEMPUB-143](#)

FinalPatientAcuity

Add values

Description: Added value “Dead with Resuscitation Efforts (Black)” with code 4219009
 Added value “Non-Acute/Routine” with code 4219011

Impacted Elements: [eDisposition.19](#)

JIRA ticket: [NEMPUB-32](#), [NEMPUB-142](#)

UnitDisposition

New enumeration

Description: New enumeration that goes with eDisposition.27 – Unit Disposition. Please see eDisposition.27 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.27](#)

JIRA ticket: [NEMPUB-91](#)

PatientEvaluationCare

New enumeration

Description: New enumeration that goes with eDisposition.28 – Patient Evaluation/Care. Please see eDisposition.28 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.28](#)

JIRA ticket: [NEMPUB-92](#)

CrewDisposition

New enumeration

Description: New enumeration that goes with eDisposition.29 – Crew Disposition. Please see eDisposition.29 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.29](#)

JIRA ticket: [NEMPUB-93](#), [NEMPUB-288](#)

TransportDisposition

New enumeration

Description: New enumeration that goes with eDisposition.30 – Transport Disposition. Please see eDisposition.30 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.30](#)

JIRA ticket: [NEMPUB-94](#)

ReasonForRefusalRelease

New enumeration

Description: New enumeration that goes with eDisposition.31 – Reason for Refusal/Release. Please see eDisposition.31 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.31](#)

JIRA ticket: [NEMPUB-95](#)

LevelOfCareProvidedPerProtocol

New enumeration

Description: New enumeration that goes with eDisposition.32 – Level of Care Provided per Protocol. Please see eDisposition.32 in the NEMSYS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eDisposition.32](#)

JIRA ticket: [NEMPUB-146](#)

DestinationPreArrivalActivation

Add value

Description: Added value “Yes-Sepsis” with code 4224019

Impacted Elements: eDisposition.24

JIRA ticket: [NEMPUB-283](#)

eExam

Trivial change made to some element definitions to add periods at the end of sentences.

eExam.08

Remove element

Description: Element was removed and split into multiple elements.

JIRA ticket: [NEMPUB-52](#)

eExam.LungGroup

New group

Description: New group added to hold the new lung elements.

Impacted Elements: [eExam.22](#), [eExam.23](#)

JIRA ticket: [NEMPUB-52](#)

eExam.22

New element

Description: New element added for Lung Assessment Finding Location. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [LungAssessmentLocation](#)

JIRA ticket: [NEMPUB-66](#)

eExam.23

New element

Description: New element added for Lung Assessment. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [LungAssessment](#)

JIRA ticket: [NEMPUB-67](#)

eExam.ChestGroup

New group

Description: New group added to hold the new chest elements.

Impacted Elements: [eExam.24](#), [eExam.25](#)

JIRA ticket: [NEMPUB-52](#)

eExam.24

New element

Description: New element added for Chest Assessment Finding Location. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [ChestAssessmentLocation](#)

JIRA ticket: [NEMPUB-68](#)

eExam.25

New element

Description: New element added for Chest Assessment. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [ChestAssessment](#)

JIRA ticket: [NEMPUB-69](#)

ChestLungsAssessment

Remove enumeration

Description: Corresponding element eExam.08 was removed.

Impacted Elements: [eExam.08](#)

JIRA ticket: [NEMPUB-52](#)

EyesAssessment

Add values

Description: Added value "Dilated" with code 3518061
Added value "Pin Point" with code 3518063

Impacted Elements: eExam.18

JIRA ticket: [NEMPUB-49](#)

ExtremityAssessmentLocation

Add and change values

Old: Value "Forearm-Left" with code 3515037
Value "Forearm-Right" with code 3515039
New: Value "Arm-Lower-Left" with code 3515037
Value "Arm-Lower-Right" with code 3515039
Added value "Arm-Whole Arm and Hand-Left" with code 3515097

Added value "Arm-Whole Arm and Hand-Right" with code 3515099
Added value "Hand-Whole Hand-Left" with code 3515101
Added value "Hand-Whole Hand-Right" with code 3515103
Added value "Leg-Whole Leg-Left" with code 3515105
Added value "Leg-Whole Leg-Right" with code 3515107
Added value "Foot-Whole Foot-Left" with code 3515109
Added value "Foot-Whole Foot-Right" with code 3515111

Impacted Elements: eExam.15

JIRA ticket: [NEMPUB-21](#)

MentalStatusAssessment

Add and remove values

Description: Removed value "Pharmacologically Sedated/Paralyzed" with code 3519019
Added value "Altered mental status, unspecified" with code 3519029
Added value "Developmentally Impaired" with code 3519031
Added value "Disorientation, unspecified" with code 3519033
Added value "Pharmacologically Paralyzed" with code 3519035
Added value "Pharmacologically Sedated" with code 3519037
Added value "Psychologically Impaired" with code 3519039
Added value "Slowness and poor responsiveness" with code 3519041
Added value "State of emotional shock and stress, unspecified" with code 3519043
Added value "Strange and inexplicable behavior" with code 3519045
Added value "Uncooperative" with code 3519047
Added value "Unspecified coma" with code 3519049

Impacted Elements: eExam.19

JIRA ticket: [NEMPUB-25](#), [NEMPUB-53](#)

NeurologicalAssessment

Add and remove values

Description: Remove value "Seizure" with code 3520025
Added value "Status Seizure" with code 3520026
Added value "Other Seizures" with code 3520055

Impacted Elements: eExam.20

JIRA ticket: [NEMPUB-3](#)

LungAssessmentLocation

New enumeration

Description: New enumeration that goes with eExam.22 – Lung Assessment Finding Location. Please see eExam.22 in the NEMSYS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eExam.22](#)

JIRA ticket: [NEMPUB-66](#)

LungAssessment

New enumeration

Description: New enumeration that goes with eExam.23 – Lung Assessment. Please see eExam.23 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eExam.23](#)

JIRA ticket: [NEMPUB-67](#)

ChestAssessmentLocation

New enumeration

Description: New enumeration that goes with eExam.24 – ChestAssessment Finding Location. Please see eExam.24 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eExam.24](#)

JIRA ticket: [NEMPUB-68](#)

ChestAssessment

New enumeration

Description: New enumeration that goes with eExam.24 – Chest Assessment. Please see eExam.24 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eExam.25](#)

JIRA ticket: [NEMPUB-69](#)

eHistory

Trivial change made to some data element comments to improve link functionality. Trivial change made to some element definitions to add periods at the end of sentences.

eHistory.10

Add PN

Description: Added new PN “Not Immunized” to this element.

Impacted Elements:

JIRA ticket: [NEMPUB-11](#)

eHistory.20

New element

Description: New element added for Current Medication Frequency. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding enumeration: [CurrentMedicationFrequency](#)

JIRA ticket: [NEMPUB-37](#)

eHistory.17

Remove PN

Description: Removed PN “Refused” to this element.

Impacted Elements: [PN](#), [AlcoholDrugUseIndicators](#)

JIRA ticket: [NEMPUB-58](#)

AlcoholDrugUseIndicators

Add and remove value

Description: Removed value “Smell of Alcohol on Breath” with code 3117011
Added value “Physical Exam Indicates Suspected Alcohol or Drug Use” with code 3117013

Impacted Elements: [eHistory.17](#)

JIRA ticket: [NEMPUB-58](#)

BarriersToPatientCare

Add values

Description: Added value “Alcohol Use, Suspected” with code 3101033
Added value “Drug Use, Suspected” with code 3101035

Impacted Elements: eHistory.01

JIRA ticket: [NEMPUB-8](#)

CurrentMedicationFrequency

New enumeration

Description: New enumeration that goes with eHistory.20 – Current Medication Frequency. Please see eHistory.20 in the NEMESIS v3.5.0 Data Dictionary for a full description of the values and codes.

Impacted Elements: [eHistory.20](#)

JIRA ticket: [NEMPUB-37](#)

eInjury

Trivial change made to some element definitions to add periods at the end of sentences.

eInjury.03

Change name and id

Old: Name: Trauma Center Criteria
Id: eInjury.TraumaCenterCriteria
New: Name: Trauma Triage Criteria (Steps 1 and 2)
Id: eInjury.TraumaTriageCriteriaSteps1and2

Corresponding enumeration: [TraumaTriageCriteriaSteps1and2](#)

JIRA ticket: [NEMPUB-30](#)

eInjury.04

Change name and id

Old: Name: Vehicular, Pedestrian or Other Injury Risk Factor
Id: eInjury.VehicularPedestrianorOtherInjuryRiskFactor
New: Name: Trauma Triage Criteria (Steps 3 and 4)
Id: eInjury.TraumaTriageCriteriaSteps3and4

Corresponding enumeration: [TraumaTriageCriteriaSteps3and4](#)

JIRA ticket: [NEMPUB-31](#)

UseOfOccupantSafetyEquipment

Critical Patch: Add value

Description: A new value, “Unable to Determine” was added with code 2907033.

Impacted Elements: eInjury.07

JIRA ticket: [NEMPUB-324](#)

TraumaTriageCriteriaSteps1and2

Rename enumeration

Old: TraumaCenterCriteria
New: TraumaTriageCriteriaSteps1and2

Description: Renamed to match changes to eInjury.03 – Trauma Triage Criteria (Steps 1 and 2).

Impacted Elements: [eInjury.03](#)

JIRA ticket: [NEMPUB-30](#)

TraumaTriageCriteriaSteps3and4

Rename enumeration

Old: VehicularInjuryIndicators

New: TraumaTriageCriteriaSteps3and4

Description: Renamed to match changes to eInjury.04 – Trauma Triage Criteria (Steps 3 and 4).

Impacted Elements: [eInjury.04](#)

JIRA ticket: [NEMPUB-31](#)

Trivial change made to some element definitions to add periods at the end of sentences.

LaboratoryResultType

Add values

Description: Added value "ACT Celite (ACTc)" with code 3403115
Added value "ACT Kaolin (ACTk)" with code 3403117
Added value "Bands" with code 3403119
Added value "Basophils" with code 3403121
Added value "Creatine Phosphokinase (CK)" with code 3403123
Added value "Eosinophils" with code 3403125
Added value "Erythrocyte Count" with code 3403127
Added value "Erythrocyte Morphology" with code 3403129
Added value "Erythrocyte Sedimentation Rate" with code 3403131
Added value "High-Sensitivity C-reactive Protein (hs-CRP)" with code 3403133
Added value "Lymphocytes" with code 3403135
Added value "Mean Corpuscular Hemoglobin (MCH)" with code 3403137
Added value "Mean Corpuscular Hemoglobin Concentration (MCHC)" with code
3403139
Added value "Mean Corpuscular Volume (MCV)" with code 3403141
Added value "Monocytes" with code 3403143
Added value "Myoglobin" with code 3403145
Added value "Neutrophils" with code 3403147
Added value "Oxygen Saturation (SaO2)" with code 3403149
Added value "Oxygen Volume/Content (SVO2)" with code 3403151
Added value "Phosphorus (PO4)" with code 3403153
Added value "Rpothromblin test time (PT/INR)" with code 3403155
Added value "Red Cell Distribution Width (RDW)" with code 3403157
Added value "Reticulocyte Count" with code 3403159
Added value "Troporin T (cTnT)" with code 3403161

Impacted Elements: eLabs.03

JIRA ticket: [NEMPUB-50](#)

eMedications

Trivial change made to some element definitions to add periods at the end of sentences.

eMedications.03

Change name, id, definition, data element comment.

Add attribute, PN

Old: id: eMedications.MedicationGiven

Name: Medication Given

Definition: The medication given to the patient

Comment:

“List of medications based on RxNorm (RXCU) code.

Reference the NEMESIS Suggested Lists at: <http://nemsis.org/v3/resources.html>

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”

New: id: eMedications.MedicationAdministered

Name: Medication Administered

Definition: The medication administered to the patient.

Comment:

“List of medications based on RxNorm (RXCU) code and SNOMED-CT codes for blood products.

Reference the NEMESIS Suggested Lists at: <https://nemsis.org/technical-resources/version-3/version-3-resources/>

RxNorm

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

Product - RxNorm Full Monthly Release

SNOMED-CT

Website: http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html

Product: Product - UMLS Metathesaurus.

Allowable SNOMED-CT codes are:

116762002 Administration of blood product

116795008 Transfusion of cryoprecipitate

116861002 Transfusion of fresh frozen plasma

116865006 Administration of albumin

180208003 Intravenous blood transfusion of platelets

33389009 Transfusion of whole blood

71493000 Transfusion of packed red blood cells”

Description: Added the new attribute CodeType to describe whether the code entered for the medication is an RxNorm code, or a SNOMED-CT code for blood products. Added PN “Order Criteria Not Met”

Corresponding enumeration: [Medication](#)
JIRA ticket: [NEMPUB-13](#), [NEMPUB-54](#), [NEMPUB-180](#)

eMedications.04

Promote national element

Old: National: No
Usage: Optional
NV: No
Nillable: No
Recurrence: 0:1
New: National: Yes
Usage: Required
NV: Not Applicable, Not Recorded
Nillable: Yes
Recurrence: 1:1
Pertinent Negatives: Unable To Complete

Corresponding enumeration: [CurrentMedicationAdministrationRoute](#)
JIRA ticket: [NEMPUB-116](#)

eMedications.DosageGroup

Change documentation

Description: Changed usage of the word “given” to “administered” to match the change in eMedications.03

JIRA ticket: [NEMPUB-54](#)

eMedications.05

Change definition

Old: The dose or amount of the medication given to the patient
New: The dose or amount of the medication administered to the patient.

JIRA ticket: [NEMPUB-54](#)

eMedications.06

Change definition

Old: The unit of medication dosage given to the patient
New: The unit of medication dosage administered to the patient.

Corresponding Enumeration: [MedicationDosageUnits](#)

JIRA ticket: [NEMPUB-45](#)

MedicationDosageUnits

Remove and add value

Description: Removed value “Liters Per Minute (l/min [fluid])” with code 3706011
 Added value “Milligrams per Hour (mg/hr)” with code 3706055

Impacted Elements: [eMedications.06](#)

JIRA ticket: [NEMPUB-45](#), [NEMPUB-55](#)

EMSDataset

Trivial change made to some data element comments to improve link functionality. Trivial change made to some element definitions to add periods at the end of sentences.

eState

Remove section

Description: eState section removed in v3.5.0

Impacted Elements: eState.01

JIRA ticket: [NEMPUB-183](#)

PatientCareReport

Add attribute

Description: Added required attribute UUID

Corresponding Enumeration: [UUID](#)

JIRA ticket: [NEMPUB-272](#)

eOther

Trivial change made to some element definitions to add periods at the end of sentences.

Critical Patch: Changed top level group for eOther to set minOccurs to 0 in accordance with other changes to this section.

JIRA ticket: [NEMPUB-321](#)

eOther.EMSCrewMemberGroup

Change recurrence

Old: 1:M

New: 0:M

Description: This change is required by the demotion of eOther.05. No elements in this group have a minimum occurrence of 1, so this group should not have a minimum occurrence of 1.

JIRA ticket: [NEMPUB-115](#)

eOther.05

Demote national element

Old: National: Yes

Usage: Required

Recurrence: 1:1

Not Values: Not Applicable, Not Recorded

New: National: No

Usage: Recommended

Recurrence: 0:1

Not Values: Not Applicable, Not Recorded, Not Reporting

Impacted Elements: [eOther.EMSCrewMemberGroup](#)

JIRA ticket: [NEMPUB-115](#)

eOther.06

Change id

Old: eOther.TypeofSuspectedEMSBloodBodyFluidExposureInjuryorDeath

New: eOther.TypeOfWorkRelatedInjuryDeathOrSuspectedExposure

Description: Changed the id to match the name of the element.

Corresponding enumeration: [TypeOfInjuryDeathOrSuspectedExposure](#)

JIRA ticket: [NEMPUB-27](#)

eOther.22

New element

Description: New element added for File Attachment Name. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding type: [FileName](#)

JIRA ticket: [NEMPUB-63](#)

eOther.15

Change definition

Old: "Indication that a patient or patient representative signature has been collected or attempted to be collected."

New: "Indication that the signature for the Type of Person Signing and Signature Reason has been collected or attempted to be collected."

Corresponding Enumeration: [SignatureStatus](#)

JIRA ticket: [NEMPUB-56](#), [NEMPUB-86](#)

ExternalElectronicDocuments

Add and remove values

Description: Removed value "DNR/Living Will" with code 4509007
Added value "DNR" with code 4509006
Added value "Living Will" with code 4509008
Added value "ePCR" with code 4509027

Impacted Elements: eOther.09

JIRA ticket: [NEMPUB-20](#)

FileName

Change documentation

Old: The name of the graphic file for the signature.

New: The name of the attached file.

Description: Changed to support the addition of eOther.22 which uses this type.

Impacted Elements: eOther.16, [eOther.22](#)

JIRA ticket: [NEMPUB-63](#)

SignatureStatus

Add and remove values

Description: Removed value "Refused" with code 4515029
Added value "Not Signed-Illiterate (Unable to Read)" with code 4515035
Added value "Not Signed-Restrained" with code 4515037
Added value "Not Signed-Combative or Uncooperative" with code 4515039

Impacted Elements: [eOther.15](#)

JIRA ticket: [NEMPUB-86](#)

SuspectedIntentionalOrUnintentionalDisaster

Add and change values

Description: Changed value "Weather" to "Weather (Other)" with code 4507027
Added value "Earthquake" with code 4507029
Added value "Flood" with code 4507031
Added value "Land Slide" with code 4507033
Added value "Winter Storm" with code 4507035
Added value "Tornado" with code 4507037
Added value "Hurricane" with code 4507039

Impacted Elements: [eOther.07](#)

JIRA ticket: [NEMPUB-44](#)

TypeOfInjuryDeathOrSuspectedExposure

Change name, documentation

Old: Name: TypeOfSuspectedExposureToBodilyFluids
Documentation: The type of exposure or unprotected contact with blood or body fluids.

New: Name: TypeOfInjuryDeathOrSuspectedExposure
Documentation: The type of injury, death, or exposure to blood or body fluids.

Description: Name and documentation for this enumeration were updated to better describe the available value choices.

Impacted Elements: [eOther.06](#)

JIRA ticket: [NEMPUB-27](#)

eOutcome

Trivial change made to some element definitions to add periods at the end of sentences.

eOutcome.06

Remove element

JIRA ticket: [NEMPUB-251](#)

eOutcome.07

Remove element

JIRA ticket: [NEMPUB-255](#)

eOutcome.08

Remove element

JIRA ticket: [NEMPUB-252](#)

eOutcome.EmergencyDepartmentProceduresGroup

New group

Description: New group was created to hold eOutcome.09 – Emergency Department Procedures, and new element eOutcome.19 – Date/Time Emergency Department Procedure Performed.
Critical Patch: Added CorrelationId attribute to this group.

Impacted Elements: [eOutcome.09](#), [eOutcome.19](#)

JIRA ticket: [NEMPUB-264](#), [NEMPUB-314](#)

eOutcome.09

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No
Nillable: No
Recurrence: 0:M

New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes

Recurrence: 0:1

Critical Patch: Removed CorrelationId attribute.

JIRA ticket: [NEMPUB-256](#), [NEMPUB-314](#)

eOutcome.19

New element

Description: New element added for Date/Time Emergency Department Procedure Performed.
Please see the NEMSYS v3.5.0 Data Dictionary for complete element details.

Impacted Elements: [eOutcome.EmergencyDepartmentProceduresGroup](#)

JIRA ticket: [NEMPUB-264](#)

eOutcome.10

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No
Nillable: No

New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes

JIRA ticket: [NEMPUB-257](#)

eOutcome.11

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No
Nillable: No

New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes
Recurrence: 0:1

JIRA ticket: [NEMPUB-258](#)

eOutcome.HospitalProceduresGroup

New group

Description: New group was created to hold eOutcome.12 – Hospital Procedures, and new element eOutcome.20 – Date/Time Hospital Procedure Performed.

Critical Patch: Added CorrelationId attribute to this group.

Impacted Elements: [eOutcome.12](#), [eOutcome.20](#)

JIRA ticket: [NEMPUB-265](#), [NEMPUB-314](#)

eOutcome.12

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No
Nillable: No
Recurrence: 0:M

New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes
Recurrence: 0:1

Critical Patch: Removed CorrelationId attribute.

JIRA ticket: [NEMPUB-259](#), [NEMPUB-314](#)

eOutcome.20

New element

Description: New element added for Date/Time Hospital Procedure Performed. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Impacted Elements: [eOutcome.HospitalProceduresGroup](#)

JIRA ticket: [NEMPUB-265](#)

eOutcome.13

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No

Nillable: No
New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes

JIRA ticket: [NEMPUB-260](#)

eOutcome.14

Remove element

JIRA ticket: [NEMPUB-253](#)

eOutcome.15

Remove element

JIRA ticket: [NEMPUB-254](#)

eOutcome.16

Promote to national

Old: National: No
State: No
Usage: Optional
Not Values: No
Nillable: No
New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Nillable: Yes

JIRA ticket: [NEMPUB-261](#)

eOutcome.17

Remove element

JIRA ticket: [NEMPUB-271](#)

eOutcome.18

New element

Description: New element added for Date/Time of Emergency Department Admission. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-262](#)

ePatient

Trivial change made to some element definitions to add periods at the end of sentences.

ePatient.05

Add PN

Description: Added new PN “Unable to Complete”, this also necessitated changing the element to nillable.

Corresponding Enumeration: [PN](#)

JIRA ticket: [NEMPUB-176](#)

ePatient.06

Add PN

Description: Added new PN “Unable to Complete”, this also necessitated changing the element to nillable.

Corresponding Enumeration: [PN](#)

JIRA ticket: [NEMPUB-177](#)

ePatient.12

Add PN

Description: Added new PN “Unable to Complete”, this also necessitated changing the element to nillable.

Impacted Elements: [PN](#)

JIRA ticket: [NEMPUB-88](#)

ePatient.13

Add data element comment

Description: Added comment to describe new values available, “Code list referenced from: <https://www.healthit.gov/isa/sex-birth-sexual-orientation-and-gender-identity>”

Corresponding Enumeration: [Gender](#)

JIRA ticket: [NEMPUB-9](#)

ePatient.18

Add PN

Description: Added new PN “Unable to Complete”, this also necessitated changing the element to nillable.

Corresponding Enumeration: [PN](#)

JIRA ticket: [NEMPUB-87](#)

ePatient.22

New element

Description: New element added for Alternate Home Residence. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding enumeration: [AlternateHomeResidence](#)

JIRA ticket: [NEMPUB-24](#)

AlternateHomeResidence

New enumeration

Description: New enumeration that goes with ePatient.22 – Alternate Home Residence. Please see ePatient.22 in the NEMESIS v3.5.0 Data Dictionary for a full description of values and codes.

Impacted Elements: [ePatient.22](#)

JIRA ticket: [NEMPUB-24](#)

ePayment

Trivial change made to some element definitions to add periods at the end of sentences.

ePayment.59

New element

Description: New element added for Insurance Company Phone Number. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-23](#)

ePayment.60

New element

Description: New element added for Date of Birth of the Insured. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-23](#)

TransportCareProvider

Add, change and remove values

Old:

Value	Code
Advanced EMT-Paramedic	2642001
Nurse	2642003
Nurse Practitioner	2642005
Physician (MD, DO)	2642007
Physician Assistant	2642009
2009 Emergency Medical Responder (EMR)	2642011
2009 Emergency Medical Technician (EMT)	2642013
2009 Advanced Emergency Medical Technician (AEMT)	2642015
2009 Paramedic	2642017
First Responder	2642019
EMT-Basic	2642021
EMT-Intermediate	2642023
EMT-Paramedic	2642025
Other Healthcare Professional	2642027
Other Non-Healthcare Professional	2642029
Respiratory Therapist	2642031
Student	3642033
Critical Care Paramedic	2642035
Community Paramedicine	2642037
Registered Nurse	2642039

New:

Value	Code
Advanced EMT-Paramedic	2642001
Nurse	2642003
Nurse Practitioner	2642005
Physician (MD, DO)	2642007
Physician Assistant	2642009
Emergency Medical Responder (EMR)	2642011
Emergency Medical Technician (EMT)	2642013
Emergency Medical Technician – Intermediate	2642014
Advanced Emergency Medical Technician (AEMT)	2642015
Paramedic	2642017
Other Healthcare Professional	2642027
Other Non-Healthcare Professional	2642029
Respiratory Therapist	2642031
Student	3642033
Critical Care Paramedic	2642035
Community Paramedicine	2642037
Registered Nurse	2642039

Impacted Elements: ePayment.42

JIRA ticket: [NEMPUB-14](#)

HealthcareProviderType

Critical Patch: Add values

Description: Three new values were added in response to CMS 2020 proposed changes, as follows:

Value	Code
Licensed Practical Nurse (LPN)	2605013
Case Manager	2605015
Social Worker	2605017

Impacted Elements: ePayment.05

JIRA ticket: [NEMPUB-325](#)

eProcedures

Trivial change made to some element definitions to add periods at the end of sentences. Trivial change made to some data element comments to improve link functionality.

eProcedures.03

Add PN

Description: Added PN "Order Criteria Not Met"

Corresponding Enumeration: [PN](#)

JIRA ticket: [NEMPUB-12](#)

VascularAccessLocation

Add values

Description: Added value "Wrist-Left" with code 3913079
Added value "Wrist-Right" with code 3913081

Impacted Elements: eProcedures.13

JIRA ticket: [NEMPUB-5](#)

eProtocols

Trivial change made to some element definitions to add periods at the end of sentences.

eProtocols.02

Demote national element

Old: National: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Recurrence: 1:1

New: National: No
Usage: Recommended
Not Values: Not Applicable, Not Recorded, Not Reporting
Recurrence: 0:1

JIRA ticket: [NEMPUB-114](#)

eRecord

SoftwareCreator

Move to commonTypes

Impacted Elements: eRecord.01, [sSoftware.01](#)

SoftwareName

Move to commonTypes

Impacted Elements: eRecord.02, [sSoftware.02](#)

SoftwareVersion

Move to commonTypes

Impacted Elements: eRecord.03, [sSoftware.03](#)

eResponse

Trivial change made to some element definitions to add periods at the end of sentences.

eResponse.02

Change definition

Old: EMS Agency Name

New: The EMS agency's name.

eResponse.05

Change data element comment

Old: "Interfacility Transfer" has been changed to "Interfacility Transport. "Public Assistance/Other Not Listed" added for EMS expanded scope events such as elderly assistance, injury prevention, public education, immunization programs, etc.

New: Values for "911 Response (Scene)", "Intercept", and "Mutual Aid" have been relabeled to start with "Emergency Response" to more easily identify these options. "Interfacility Transport" was relabeled to "Hospital-to-Hospital Transfer" to be more accurate; options for "Sending Hospital Staff" and "Critical or Specialty Care" were added to better track resource utilization at local and state levels and support reimbursement levels. "Medical Transport" was relabeled to "Other Medical Needs Transport" to cover any other medical transports such as transports to and from dialysis, doctor appointments, return home, or nursing homes. Values added to consolidate types of service previously captured in "Primary Role of Unit" and eDisposition.12 as found in V3.4.0. Additional values added to reflect emerging service types.

Corresponding Enumeration: [EMSServiceCat](#)

JIRA ticket: [NEMPUB-139](#)

eResponse.07

Change name, definition, data element comment

Old: Name: Primary Role of the Unit

Definition: "The primary role of the EMS Unit which responded to this specific EMS event"

Comment: "Supervisor clarified to Administrative Only. If the Supervisor is responding to assist, that would be considered Non-Transport. Transport separated into Air and Ground. In Version 2 there was no way to identify Air Transport"

New: Name: Unit Transport and Equipment Capability

Definition: "The transport and equipment capabilities of the EMS Unit which responded to this specific EMS event."

Comment: "Element relabeled from "Primary Role of Unit" to "Unit Transport and Equipment Capability" to better reflect its new defined purpose and allow the deprecation of eResponse.15 "Level of Care of This Unit". V3.4.0 Non-Transport values deprecated as these are types of service and were moved to eResponse.05 "Type of Service Requested". Values have

been added to better capture transport capability and available equipment. These values should be tied to the capabilities and role of the unit and not reflect the level of providers responding to an event.

Supervisor clarified to Administrative Only. If the Supervisor is responding to assist, that would be considered Non-Transport. Transport separated into Air and Ground. In Version 2 there was no way to identify Air Transport. “

Corresponding Enumeration: [UnitTransportEquipmentCapability](#)

JIRA ticket: [NEMPUB-140](#)

eResponse.15

Remove element

Corresponding Enumeration: [UnitLevelOfCare](#)

JIRA ticket: [NEMPUB-145](#)

eResponse.16

Critical Patch: Change to definition of element

Old: “The EMS location or healthcare facility representing the geographic location of the unit or crew at the time of dispatch.”

New: “The geographic location of the EMS unit or crew at the time of dispatch.”

JIRA ticket: [NEMPUB-323](#)

eResponse.23

Change definition

Old: “The indication whether the response was emergent or non-emergent. An emergent response is an immediate response (typically using lights and sirens).”

New: “The indication whether the response was emergent or non-emergent. An emergent response is an immediate response.”

JIRA ticket: [NEMPUB-39](#)

EMSDispatchDelayReason

Add and change values

Description: Changed value “Location (Inability to Obtain)” to “Incomplete Address Information Provided” with code 2208009

Added value “Communication Specialist-Assignment Error” with code 2208019

Added value “No Receiving MD, Bed, Hospital” with code 2208021

Added value “Specialty Team Delay” with code 2208023

Impacted Elements: eResponse.08

JIRA ticket: [NEMPUB-22](#)

EMSServiceCat

Add and change values

Old:

Value	Code
911 Response (Scene)	2205001
Intercept	2205003
Interfacility Transport	2205005
Medical Transport	2205007
Mutual Aid	2205009
Public Assistance/Other Not Listed	2205011
Standby	2205013

New:

Value	Code
Emergency Response (Primary Response Area)	2205001
Emergency Response (Intercept)	2205003
Emergency Response (Mutual Aid)	2205009
Hospital-to-Hospital Transfer	2205005
Hospital to Non-Hospital Facility Transfer	2205015
Non-Hospital Facility to Non-Hospital Facility Transfer	2205017
Non-Hospital Facility to Hospital Transfer	2205019
Other Routine Medical Transport	2205007
Public Assistance	2205011
Standby	2205013
Support Services	2205021
Non-Patient Care Rescue/Extrication	2205023
Crew Transport Only	2205025
Transport of Organs or Body Parts	2205027
Mortuary Services	2205029
Mobile Integrated Health Care	2205031
Evaluation for Special Referral/Intake Programs	2205033
Administrative Operations	2205035

Impacted Elements: [eResponse.05](#)

JIRA ticket: [NEMPUB-139](#)

UnitTransportEquipmentCapability

Change name, add, remove and change values

Old: Name: PrimaryRoleOfUnit

Value	Code
Ground Transport	2207003
Non-Transport Administrative (e.g., Supervisor)	2207005
Non-Transport Assistance	2207007
Non-Transport Rescue	2207009
Air Transport-Helicopter	2207011

Air Transport-Fixed Wing	2207013
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New: Name: UnitTransportEquipmentCapability

Value	Code
Air Transport-Helicopter	2207011
Air Transport-Fixed Wing	2207013
Ground Transport (ALS Equipped)	2207015
Ground Transport (BLS Equipped)	2207017
Ground Transport (Critical Care Equipped)	2207019
Non-Transport-Medical Treatment (ALS Equipped)	2207021
Non-Transport-Medical Treatment (BLS Equipped)	2207023
Wheel Chair Van/Ambulette	2207025
No Medical Equipment	2207027

Impacted Elements: [eResponse.07](#)

JIRA ticket: [NEMPUB-140](#)

UnitLevelOfCare

Remove enumeration

Description: No longer used with the removal of eResponse.15.

Impacted Elements: [eResponse.15](#)

JIRA ticket: [NEMPUB-145](#)

eScene

Trivial change made to some element definitions to add periods at the end of sentences.

eScene.01

Change definition

Old: “Documentation that this EMS Unit was the first EMS Unit for the EMS Agency on the Scene.”

New: “Documentation that this EMS Unit was the first EMS Unit among all EMS Agencies on the Scene.”

JIRA ticket: [NEMPUB-298](#)

eScene.02

Add data element comment

Description: “For states and local agencies that participate in the Cardiac Arrest Registry for Enhanced Survival (CARES), eScene.02 and eScene.03 are used to populate CARES data element #16 Fire/First Responder as defined by CARES in the CARES 2019 Data Dictionary:

[https://mycares.net/sitepages/uploads/2019/Data%20Dictionary%20\(2019\).pdf](https://mycares.net/sitepages/uploads/2019/Data%20Dictionary%20(2019).pdf)”

JIRA ticket: [NEMPUB-170](#)

eScene.03

Change data element comment

Old: “The ID should be the state ID (license number) for the EMS agency or ID number for the law enforcement. This may be an ID assigned by the state or created by the EMS agency.”

New: “The ID should be the state ID (license number) for the EMS agency or ID number for the law enforcement. This may be an ID assigned by the state or created by the EMS agency.

For states and local agencies that participate in the Cardiac Arrest Registry for Enhanced Survival (CARES), eScene.02 and eScene.03 are used to populate CARES data element #16 Fire/First Responder as defined by CARES in the CARES 2019 Data Dictionary:

[https://mycares.net/sitepages/uploads/2019/Data%20Dictionary%20\(2019\).pdf](https://mycares.net/sitepages/uploads/2019/Data%20Dictionary%20(2019).pdf)”

JIRA ticket: [NEMPUB-171](#)

eScene.24

New element

Description: New element added for First Other EMS or Public Safety Agency at Scene to Provide Patient Care. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-172](#)

SceneCrossStreet

Change constraints

Description: MaxLength was increased from 50 to 255.

Impacted Elements: eScene.20

JIRA ticket: [NEMPUB-46](#)

eSituation

Trivial change made to some element definitions to add periods at the end of sentences. Trivial change made to some data element comments to improve link functionality.

eSituation.01

Add PN

Description: Add new PN "Unable to Complete" and "Approximate"

Corresponding enumeration: [PN](#)

JIRA ticket: [NEMPUB-41](#)

eSituation.10

Add PN

Description: Add new PN "Symptom Not Present"

Corresponding enumeration: [PN](#)

JIRA ticket: [NEMPUB-179](#)

eSituation.13

Change data element comment

Old: "Definitions related to "Critical, Emergent, and Lower Acuity" can be found in the National EMS Core Content document from NHTSA EMS (DOT HS 809-898 July 2005) at <http://www.nhtsa.gov/people/injury/ems/emscorecontent/images/EMSCoreContent.pdf> Dead without Resuscitation Efforts would be appropriate if resuscitation was initiated by non-EMS personnel but discontinued immediately upon evaluation by first arriving EMS personnel."

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

Dead without Resuscitation Efforts would be appropriate if resuscitation was initiated by non-EMS personnel but discontinued immediately upon evaluation by first arriving EMS personnel. "Non-Acute/Routine" added for use with patients with no clinical issues-such as refusal for a life assist-or for routine transfers"

Corresponding Enumeration: [InitialPatientAcuity](#)

JIRA ticket: [NEMPUB-141](#)

eSituation.18

Promote national element

Old: National: No
State: No
Usage: Optional
Not Values: No
Pertinent Negatives: No

New: National: Yes
State: Yes
Usage: Required
Not Values: Not Applicable, Not Recorded
Pertinent Negatives: Unable to Complete

JIRA ticket: [NEMPUB-7](#)

eSituation.19

New element

Description: New element added for Justification for Transfer or Encounter. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [JustificationforTransferorEncounter](#)

JIRA ticket: [NEMPUB-147](#)

eSituation.20

New element

Description: New element added for Reason for Interfacility Transfer/Medical Transport. Please see the NEMESIS v3.5.0 Data Dictionary for complete element details.

Corresponding Enumeration: [ReasonforInterfacilityTransfer](#)

JIRA ticket: [NEMPUB-148](#)

InitialPatientAcuity

Add value

Description: Added value "Non-Acute/Routine" with code 2813009

Impacted Elements: [eSituation.13](#)

JIRA ticket: [NEMPUB-141](#)

PatientsOccupation

Change value

Old: “Education, Training, and Library Occupations” with code 2816015

New: “Educational Instruction and Library Occupations” with code 2816015

Impacted Elements: [eSituation.16](#)

JIRA ticket: [NEMPUB-82](#)

JustificationforTransferorEncounter

New enumeration

Description: New enumeration that goes with eSituation.19 – Justification for Transfer or Encounter. Please see eSituation.19 in the NEMSYS v3.5.0 Data Dictionary for a full description of constraints.

Impacted Elements: [eSituation.19](#)

JIRA ticket: [NEMPUB-147](#)

ReasonforInterfacilityTransfer

New enumeration

Description: New enumeration that goes with eSituation.20 – Reason for Interfacility Transfer/Medical Transport. Please see eSituation.20 in the NEMSYS v3.5.0 Data Dictionary for a full description of values and codes.

Impacted Elements: [eSituation.20](#)

JIRA ticket: [NEMPUB-148](#)

eTimes

eTimes.09

Change definition

Old: “The date/time the responding unit left the scene with a patient (started moving).”

New: “The date/time the responding unit left the scene (started moving)”

JIRA ticket: [NEMPUB-79](#)

eTimes.12

Change definition

Old: “The date/time that patient care was transferred to the destination healthcare facilities staff.”

New: “The date/time that patient care was transferred to the destination healthcare staff.”

JIRA ticket: [NEMPUB-291](#)

eTimes.17

New element

Description: New element added for Unit Arrived at Staging Area Date/Time. Please see the NEMSIS v3.5.0 Data Dictionary for complete element details.

JIRA ticket: [NEMPUB-4](#)

eVitals

eVitals.CardiacRhythmGroup

Remove attribute

Description: Removed attribute "CorrelationID"

JIRA ticket: [NEMPUB-10](#)

eVitals.08

Demote national element

Old: National: Yes
Usage: Required
Recurrence: 1:1
Not Values: Not Applicable, Not Recorded

New: National: No
Usage: Recommended
Recurrence: 0:1
Not Values: Not Applicable, Not Recorded, Not Reporting

JIRA ticket: [NEMPUB-109](#)

eVitals.16

Change definition, add attribute

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

New: "The numeric value of the patient's exhaled end tidal carbon dioxide (ETCO2) level measured as a unit of pressure in millimeters of mercury (mmHg), percentage or, kilopascal (kPa)."
Added optional attribute ETCO2Type to specify how ETCO2 was measured.

Corresponding Enumeration: [ETCO2Type](#), [CO2](#)

JIRA ticket: [NEMPUB-26](#)

eVitals.18

Remove data element comment

Old: "For glucometers with "High" and "Low" readings, report "600" for "High" and "20" for "Low".

Corresponding Enumeration: [BloodGlucoseLevel](#)

JIRA ticket: [NEMPUB-34](#)

eVitals.19

Change definition

Old: "The patient's Glasgow Coma Score Eye opening"

New: "The patient's Glasgow Coma Score Eye opening response."

eVitals.20

Change definition

Old: "The patient's Glasgow Coma Score Verbal"

New: "The patient's Glasgow Coma Score Verbal response."

eVitals.21

Change definition

Old: "The patient's Glasgow Coma Score Motor"

New: "The patient's Glasgow Coma Score Motor response."

eVitals.26

Change id

Old: eVitals.LevelofResponsivenessAPVU

New: eVitals.LevelofResponsivenessAVPU

JIRA ticket: [NEMPUB-17](#)

eVitals.33

Change data element comment

Old: "The Revised Trauma Score is a physiological scoring system that is based on the first set of vital signs obtained from the patient, and consists of Glasgow Coma Scale, Systolic Blood Pressure and Respiratory Rate."

New: "The Unweighted Revised Trauma Score is a physiological scoring system that is based on the first set of vital signs obtained from the patient, and consists of Glasgow Coma Scale, Systolic Blood Pressure and Respiratory Rate."

JIRA ticket: [NEMPUB-84](#)

BloodGlucoseLevel

Change constraints

Description: Changed from an integer value from 0 to 2000 (inclusive), to a string value that follows a pattern of "[2][0][0][0]|[1][0-9][0-9][0-9]|[1-9][0-9][0-9]|[1-9][0-9]|[0-9]|High|Low". This permits the same integer values, but also allows values of "High" and "Low".

Impacted Elements: [eVitals.18](#)

JIRA ticket: [NEMPUB-34](#)

CO2

Change constraints

Description: Changed maxInclusive value from 200 to 750.

Impacted Elements: [eVitals.16](#)

JIRA ticket: [NEMPUB-26](#)

ECGType

Add and change value

Description: Added new value “2 Lead ECG (pads or paddles)” with code 3304000
Changed value “Other (AED, Not Listed)” to “Other” with code 3304015

Impacted Elements: eVitals.04

JIRA ticket: [NEMPUB-38](#)

TypeOfStrokeScale

Add and change values

Old:

Value	Code
Cincinnati	3330001
Los Angeles	3330003
Massachusetts	3330005
Miami Emergency Neurologic Deficit (MEND)	3330007
NIH	3330009
Other Stroke Scale	3330011
F.A.S.T. Exam	3330013

New:

Value	Code
Cincinnati Prehospital Stroke Scale (CPSS)	3330001
Los Angeles Prehospital Stroke Screen (LAPSS)	3330004
Massachusetts Stroke Scale (MSS)	3330005
Miami Emergency Neurologic Deficit Exam (MEND)	3330007
NIH Stroke Scale (NIHSS)	3330009
Other Stroke Scale	3330011
FAST-ED	3330013
Boston Stroke Scale (BOSS)	3330015
Ontario Prehospital Stroke Scale (OPSS)	3330017
Melbourne Ambulance Stroke Screen (MASS)	3330019
Rapid Arterial occlusion Evaluation (RACE)	3330021
Los Angeles Motor Score (LAMS)	3330023

Impacted Elements: eVitals.30

JIRA ticket: [NEMPUB-28](#)

ETCO2Type

New enumeration

Description: New enumeration that goes with new attribute ETCO2Type used in eVitals.16 – End Tidal Carbon Dioxide (ETCO2). Please see eVitals.16 in the NEMSYS v3.5.0 Data Dictionary for a full description of values and codes.

Impacted Elements: [eVitals.16](#)

JIRA ticket: [NEMPUB-26](#)

StateDataSet

Previously, all state data set elements were contained in a single XSD file, with the inclusion of the state data set in the formal NEMESIS standard, this file has been restructured to have each section (sAgency, sConfiguration, etc.) contained in its own individual XSD file. This restructuring brings the state data set's XSD structure in line with the structure of the EMS data set and the Demographic data set structures.

Additionally, all StateDataSet elements were reviewed and revised for v3.5.0.

sAgency

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sAgency	NEMPUB-227
sAgencyGroup	NEMPUB-228
sAgency.01	NEMPUB-229
sAgency.02	NEMPUB-230
sAgency.03	NEMPUB-231

sConfiguration

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sConfiguration	NEMPUB-218
sConfiguration.01	NEMPUB-219
sConfiguration.ProcedureGroup	NEMPUB-220
sConfiguration.02	NEMPUB-221
sConfiguration.03	NEMPUB-222
sConfiguration.MedicationGroup	NEMPUB-223
sConfiguration.04	NEMPUB-224
sConfiguration.05	NEMPUB-225
sConfiguration.06	NEMPUB-226

sdCustom

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sdCustomConfiguration	<u>NEMPUB-194</u>
sdCustomConfiguration.CustomGroup	<u>NEMPUB-195</u>
sdCustomConfiguration.01	<u>NEMPUB-196</u>
sdCustomConfiguration.02	<u>NEMPUB-197</u>
sdCustomConfiguration.03	<u>NEMPUB-198</u>
sdCustomConfiguration.04	<u>NEMPUB-199</u>
sdCustomConfiguration.05	<u>NEMPUB-200</u>
sdCustomConfiguration.06	<u>NEMPUB-201</u>
sdCustomConfiguration.07	<u>NEMPUB-202</u>
sdCustomConfiguration.08	<u>NEMPUB-203</u>
sdCustomConfiguration.09	<u>NEMPUB-204</u>

seCustom

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

seCustomConfiguration	<u>NEMPUB-205</u>
seCustomConfiguration.CustomGroup	<u>NEMPUB-206</u>
seCustomConfiguration.01	<u>NEMPUB-207</u>
seCustomConfiguration.02	<u>NEMPUB-208</u>
seCustomConfiguration.03	<u>NEMPUB-209</u>
seCustomConfiguration.04	<u>NEMPUB-210</u>
seCustomConfiguration.05	<u>NEMPUB-211</u>
seCustomConfiguration.06	<u>NEMPUB-212</u>
seCustomConfiguration.07	<u>NEMPUB-213</u>
seCustomConfiguration.08	<u>NEMPUB-214</u>
seCustomConfiguration.09	<u>NEMPUB-215</u>

sElement

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sElement	NEMPUB-216
sElement.01	NEMPUB-217

sFacility

New section and elements, please see the NEMSIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sFacility	NEMPUB-232
sFacilityGroup	NEMPUB-233
sFacility.01	NEMPUB-234
sFacility.FacilityGroup	NEMPUB-235
sFacility.02	NEMPUB-236
sFacility.03	NEMPUB-237
sFacility.04	NEMPUB-238
sFacility.05	NEMPUB-239
sFacility.06	NEMPUB-240
sFacility.07	NEMPUB-241
sFacility.08	NEMPUB-242
sFacility.09	NEMPUB-243
sFacility.10	NEMPUB-244
sFacility.11	NEMPUB-245
sFacility.12	NEMPUB-246
sFacility.13	NEMPUB-247
sFacility.14	NEMPUB-248
sFacility.15	NEMPUB-249

sSoftware

New section and elements, please see the NEMSIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sSoftware	NEMPUB-190
sSoftware.01	NEMPUB-191
sSoftware.02	NEMPUB-192
sSoftware.03	NEMPUB-193

sState

New section and elements, please see the NEMESIS v3.5.0 Data Dictionary for a full description. JIRA tickets are listed below:

sState.01

[NEMPUB-189](#)