NEMSIS 3.3.4 to 3.4.0 Translation

The NEMSIS 3.3.4 to 3.4.0 Translation provides XSL transformations to translate NEMSIS DEMDataSet and EMSDataSet documents from version 3.3.4 to version 3.4.0.

## Elements Removed

The following elements that are retired in 3.4.0 are not mapped.

|  |  |
| --- | --- |
| Element No. | Element Name |
| ePayment.43 | Ambulance Transport Code |
| eArrest.10 | Therapeutic Hypothermia Initiated |

## ANSICountyCode

If value does not match pattern:

* If element is Mandatory, then “00000” is used.
* If element is Required, then Not Value 7701003 (Not Recorded) is used.
* If element is Optional, then it is removed.

Data type change   
Old: String; Length = 5  
New: Pattern [0-9]{5}

|  |  |  |
| --- | --- | --- |
| Element No. | Element Name | Usage |
| dAgency.06 | EMS Agency Service Area County(ies) | Mandatory |
| dLocation.10 | EMS Location County | Optional |
| dFacility.11 | Facility County | Optional |
| ePatient.07 | [Patient's Home County](https://www.nemsis.org/media/nemsis_v3/release-3.4.0/DataDictionary/PDFHTML/DEMEMS/sections/elements/ePatient.07.xml) | Required |
| eScene.21 | Incident County | Required |
| eDisposition.06 | Destination County | Required |

## ANSIStateCode

If value does not match pattern:

* If element is Mandatory, then “00” is used.
* If element is Required, then Not Value 7701003 (Not Recorded) is used.
* If element is Recommended or Optional, then it is removed.

Data type change   
Old: String; Length = 2  
New: Pattern [0-9]{2}

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| --- | --- | --- |
| Element No. | Element Name | Usage |
| dAgency.04 | EMS Agency State | Mandatory |
| dAgency.05 | EMS Agency Service Area States | Mandatory |
| dConfiguration.01 | State Associated with the Certification/Licensure Levels | Mandatory |
| dContact.07 | Agency Contact State | Recommended |
| dLocation.08 | EMS Location State | Optional |
| dPersonnel.06 | EMS Personnel’s State | Optional |
| dPersonnel.22 | EMS Personnel's State of Licensure | Recommended |
| dFacility.09 | Facility State | Optional |
| ePatient.08 | Patient's Home State | Required |
| ePatient.20 | State Issuing Driver's License | Optional |
| eScene.18 | Incident State | Required |
| eDisposition.05 | Destination State | Required |
| ePayment.14 | Insurance Company State | Optional |
| ePayment.28 | Closest Relative/ Guardian State | Optional |
| ePayment.36 | Patient's Employer's State | Optional |

## Element Code Mappings

Codes that are retired in 3.4.0 are mapped as follows. In some cases, a single code is mapped to two codes.

| Element No. | Element Name | 3.3.4 | | 3.4.0 | |
| --- | --- | --- | --- | --- | --- |
| dAgency.11 | Level of Service | 9917017 | Nurse | 9917031 | Registered Nurse |
| dConfiguration.02 | State Certification/Licensure Levels | 9911017 | Nurse | 9911033 | Registered Nurse |
| dConfiguration.06 | EMS Certification Levels Permitted to Perform Each Procedure | 9917017 | Nurse | 9917031 | Registered Nurse |
| dConfiguration.05 | Protocols Permitted by the State | 9914039 | Exposure-Carbon Monoxide/Smoke Inhalation | 9914167 | Exposure-Carbon Monoxide |
| 9914173 | Exposure-Smoke Inhalation |
| dConfiguration.08 | EMS Certification Levels Permitted to Administer Each Medication | 9917017 | Nurse | 9917031 | Registered Nurse |
| dConfiguration.10 | EMS Agency Protocols | 9914039 | Exposure-Carbon Monoxide/Smoke Inhalation | 9914167 | Exposure-Carbon Monoxide |
| 9914173 | Exposure-Smoke Inhalation |
| dVehicle.05 | Crew State Certification/Licensure Levels | 9917017 | Nurse | 9917031 | Registered Nurse |
| dPersonnel.24 | EMS Personnel's State EMS Certification Licensure Level | 9925021 | Nurse | 9925043 | Registered Nurse |
| dPersonnel.29 | EMS Personnel's National Registry Certification Level | 1529901 | 2009 Advanced Emergency Medical Technician(AEMT) | 1529001 | 2009 Advanced Emergency Medical Technician(AEMT) |
| dPersonnel.38 | EMS Personnel's Practice Level | 9925021 | Nurse | 9925043 | Registered Nurse |
| dFacility.04 | Hospital Designations | 9908013 | STEMI | 9908031 | Cardiac-STEMI/PCI Capable |
| dFacility.04 | Hospital Designations | 9908015 | STEMI Center (24/7) | 9908033 | Cardiac-STEMI/PCI Capable (24/7) |
| eCrew.02 | Crew Member Level | 9925021 | Nurse | 9925043 | Registered Nurse |
| eResponse.07 | Primary Role of the Unit | 2207001 | Air Transport | 2207011 | Air Transport-Helicopter |
| ePayment.22 | Relationship to the Insured | 2622007 | Other | 2622019 | Other Relationship |
| eArrest.11 | First Monitored Arrest Rhythm of the Patient | 3011003 | Bradycardia | 3011005 | PEA |
| eExam.05 | Head Assessment | 3505025 | Gunshot Wound-Entry | 3505045 | Gunshot Wound |
| eExam.05 | Head Assessment | 3505027 | Gunshot Wound-Exit | 3505045 | Gunshot Wound |
| eExam.06 | Face Assessment | 3506019 | Decapitation | Element is removed | |
| eExam.06 | Face Assessment | 3506027 | Gunshot Wound-Entry | 3506047 | Gunshot Wound |
| eExam.06 | Face Assessment | 3506029 | Gunshot Wound-Exit | 3506047 | Gunshot Wound |
| eExam.07 | Neck Assessment | 3507021 | Gunshot Wound-Entry | 3507049 | Gunshot Wound |
| eExam.07 | Neck Assessment | 3507023 | Gunshot Wound-Exit | 3507049 | Gunshot Wound |
| eExam.08 | Chest/Lungs Assessment | 3508043 | Gunshot Wound-Entry | 3508097 | Gunshot Wound |
| eExam.08 | Chest/Lungs Assessment | 3508045 | Gunshot Wound-Exit | 3508097 | Gunshot Wound |
| eExam.11 | Abdomen Assessment | 3511027 | Gunshot Wound-Entry | 3511053 | Gunshot Wound |
| eExam.11 | Abdomen Assessment | 3511029 | Gunshot Wound-Exit | 3511053 | Gunshot Wound |
| eExam.12 | Pelvis/Genitourinary Assessment | 3512029 | Gunshot Wound-Entry | 3512059 | Gunshot Wound |
| eExam.12 | Pelvis/Genitourinary Assessment | 3512031 | Gunshot Wound-Exit | 3512059 | Gunshot Wound |
| eExam.13 | Back and Spine Assessment Finding Location | 3513027 | Crush Injury | Element is removed | |
| eExam.14 | Back and Spine Assessment | 3514021 | Gunshot Wound-Exit | 3514047 | Gunshot Wound |
| eExam.14 | Back and Spine Assessment | 3514023 | Gunshot Wound-Entry | 3514047 | Gunshot Wound |
| eExam.16 | Extremities Assessment | 3516039 | Gunshot Wound-Exit | 3516077 | Gunshot Wound |
| eExam.16 | Extremities Assessment | 3516037 | Gunshot Wound-Entry | 3516077 | Gunshot Wound |
| eProtocols.01 | Protocols Used | 9914039 | Exposure-Carbon Monoxide/Smoke Inhalation | 9914167 | Exposure-Carbon Monoxide |
| 9914173 | Exposure-Smoke Inhalation |
| eMedications.08 | Medication Complication | 3708027 | Itching/Urticaria | 3708043 | Itching |
| 3708045 | Urticaria |
| eMedications.10 | Role/Type of Person Administering Medication | 9905017 | Nurse | 9905041 | Registered Nurse |
| eProcedures.07 | Procedure Complication | 3907029 | Itching/Urticaria | 3907049 | Itching |
| 3907051 | Urticaria |
| eProcedures.07 | Procedure Complication | 3907037 | Portacath | 3907035 | Other |
| eProcedures.10 | Role/Type of Person Performing the Procedure | 9905017 | Nurse | 9905041 | Registered Nurse |
| eDisposition.23 | Hospital Capability | 9908013 | STEMI | 9908031 | Cardiac-STEMI/PCI Capable |
| eDisposition.23 | Hospital Capability | 9908015 | STEMI Center (24/7) | 9908033 | Cardiac-STEMI/PCI Capable (24/7) |
| eOther.09 | External Electronic Document Type | 4509023 | Sound Recording | 4509001 | Other Audio Recording |

## Element Values Trimmed

The following elements are removed or truncated if they do not match the pattern or length constraints in 3.4.0.

|  |  |  |
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| Element No. | Element Name | Note |
| ePatient.12 | Social Security Number | Removed if value does not match pattern [0-9]{9}. |
| ePayment.10 | Insurance Company Name | Truncated to 60 characters. |
| ePayment.53 | Transport Authorization Code | Truncated to 50 characters. |
| eInjury.01 | Cause of Injury | Truncated to 4 characters after the dot. |
| eOutcome.08 | Emergency Department Recorded Cause of Injury | Truncated to 4 characters after the dot. |

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

Pertinent Negative attribute retired in 3.4.0. Maps Pertinent Negative to Not Value 7701003 (Not Recorded).

## eExam.20 - Neurological Assessment

Retired “Reported Stroke Symptoms Resolved…” values are removed. Maps “Reported Stroke Symptoms Resolved…” values to new element eExam.21 Stroke/CVA Symptoms Resolved as follows:

* If any instance of eExam.20 (without a Pertinent Negative attribute) is 3520047 (Reported Stroke Symptoms Resolved Prior to EMS Arrival):
  + eExam.21 is set to 3521003 (Yes-Resolved Prior to EMS Arrival)
* Otherwise, if any instance of eExam.20 (without a Pertinent Negative attribute) is 3520049 (Reported Stroke Symptoms Resolved in EMS Presence):
  + eExam.21 is set to 3521005 (Yes-Resolved in EMS Presence)

## eAirway.08 - Airway Complications Encountered eAirway.09 - Suspected Reasons for Failed Airway Procedure

Moved outside of eAirway.ConfirmationGroup.

## eDisposition.19 – Final Patient Acuity

Maps new values to existing values by comparing to eSituation.13 - Initial Patient Acuity. The mapping is not precise. If eSituation.13 is not recorded, eSituation.19 is mapped to Not Value 7701003 (Not Recorded).

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| --- | --- | --- | --- | --- | --- |
| 3.3.4 | | | | 3.4.0 | |
| eSituation.13 | | eDisposition.19 | | eDisposition.19 | |
| 2813001 | Critical (Red) | 9916001 | Improved | 4219003 | Emergent (Yellow) |
| 9916003 | Unchanged | 4219001 | Critical (Red) |
| 9915005 | Worse | 4219007 | Dead without Resuscitation Efforts (Black) |
| 2813003 | Emergent (Yellow) | 9916001 | Improved | 4219005 | Lower Acuity (Green) |
| 9916003 | Unchanged | 4219003 | Emergent (Yellow) |
| 9915005 | Worse | 4219001 | Critical (Red) |
| 2813005 | Lower Acuity (Green) | 9916001 | Improved | 4219005 | Lower Acuity (Green) |
| 9916003 | Unchanged | 4219005 | Lower Acuity (Green) |
| 9915005 | Worse | 4219003 | Emergent (Yellow) |
| 2813007 | Dead without Resuscitation Efforts (Black) | 9916001 | Improved | 4219001 | Critical (Red) |
| 9916003 | Unchanged | 4219007 | Dead without Resuscitation Efforts (Black) |
| 9915005 | Worse | 4219007 | Dead without Resuscitation Efforts (Black) |