



2021 Data Managers Boot Camp v3.4 to v3.5 Crosswalk

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Work group suggestions



NEMESIS V3.5.0 Work Group
Summary of Recommendations
- Review National Elements -


NEMESIS TAC Annual Meeting
October 2, 2017



Thanks to the Review National Element Work Group Members

Brenda Clotfelter	State of Florida, Bureau of EMS
Brooke Burton	Gold Cross Ambulance, Utah
Chip Cooper	State of New Hampshire, Bureau of EMS
Dan Lee	State of Illinois, Dept of Health
Donna York Clark	Golden Hour / emsCharts
Felicia Alvarez	State of Utah, Bureau of EMS
Jason Rhodes	State of Rhode Island, Dept of Health
John Montes	National Fire Protection Association
Josh Austin	Open, Inc., SafetyPAD
Juan Esparza	State of Florida, Bureau of EMS
Kris Head	EOS Logic
Meghan Broadbent	International Academies of Emergency Dispatch
Melissa Belgau	State of Washington, Dept of Health
Ruth McGuire	San Diego Fire Rescue
Sean Kaye	EMS Performance Improvement Center



EMS Data can tell a powerful story.

Our friend, Juan Esparza, former FL, Data Manager taught me that data can tell a powerful story.

He shared his expertise and passion to help improve the NEMSIS standard.



Goal #1 – Provide overview of the element changes:

- Review v3.5 National and State Elements excel spreadsheet
- Describe the changes from v3.4 to v3.5



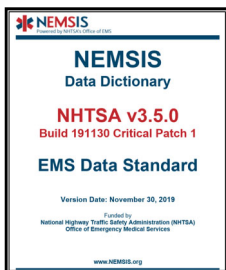
Goal #2 - Describe products to help us tell the story:

Audience: EMS Clinician

- When and why documentation (short videos)
- Documentation quick tips guide
- PowerPoint slide decks (topic based)
- LMS Module Trainings & Certificates
- Paperback materials

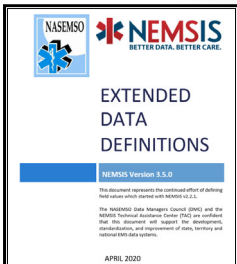


Explore the NEMESIS Elements



Explore the NEMESIS Elements

<https://nemesis.org/media/naemso-v3.5.0/NAEMSOEMSTATE/EMSDemState/EMSDemState.pdf>
<https://nemesis.org/media/naemso-v3.5.0/NAEMSOEMSTATE/EMSDemState/EMSDemState.pdf>



NEMESIS Data Dictionary Version 3.5.0 Overview

Composition of the NEMESIS Version 3.5.0 Standard

Total Elements	640
EMS Elements	441
Mandatory	21
Required	130
Recommended	56
Optional	237
DEM Elements	152
Mandatory	25
Required	4
Recommended	41
Optional	82
StateDataSet Elements	47
Mandatory	11
Required	10
Recommended	10
Optional	16

See complete lists here: https://nemesis.org/media/nemesis_v3/release-3.5.0/DataDictionary/PDFHTML/EMSDemState/index.html



Added State Only Element

ElementNumber	ElementName
eSituation.19	Justification for Transfer or Encounter

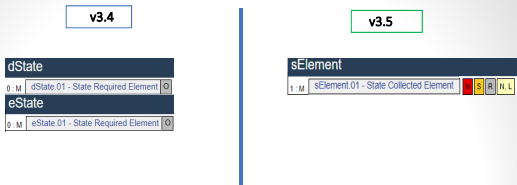


Added Optional or Recommended Elements

ElementNumber	ElementName	Usage
eTimes.17	Unit Arrived at Staging Area Date/Time	Optional
ePatient.22	Alternate Home Residence	Recommend
ePayment.59	Insurance Company Phone Number	Optional
ePayment.60	Date of Birth of the Insured	Optional
eArrest.10	Therapeutic Hypothermia by EMS	Optional
eHistory.20	Current Medication Frequency	Optional
eExam.22	Lung Assessment Finding Location	Optional
eExam.23	Lung Assessment	Optional
eExam.24	Chest Assessment Finding Location	Optional
eExam.25	Chest Assessment	Optional
eDisposition.31	Reason for Refusal/Release	Optional
eOther.22	File Attachment Name	Optional
eScene.24	First Other EMS or Public Safety Agency at Scene to Provide Patient Care	Optional



Example of Renamed Elements



Renamed & Retired Elements

Element Type:	National and Optional
Section Name:	dConfiguration, eExam
Change:	Renamed & Retired
Impact:	Some and no change to provider experience
# of Elements	5

ElementNumber	ElementName	pid/Rename	Nation	State	Usage	Revision Summary
dConfiguration.02	State Certification/Licensure Levels	Renamed	National	State	Mandatory	Retired from DEM dataset and moved to StateDataset
dConfiguration.03	Procedures Permitted by the State	Renamed	National	State	Required	Retired from DEM dataset and moved to StateDataset
dConfiguration.04	Medications Permitted by the State	Renamed	National	State	Required	Retired from DEM dataset and moved to StateDataset
dConfiguration.05	Protocols Permitted by the State	Renamed	National	State	Required	Retired from DEM dataset and moved to StateDataset
eExam.08	Chest/Lungs Assessment	Renamed	National	State	Optional	Separate Chest/Lungs location & assessment to eExam.22



Renamed Elements

Element Type & Usage:	Optional
Section Name:	eExam
Change:	One element split into four elements
Impact:	Some impact to provider experience
# of Elements	4

v3.4		v3.5	
eExam.08	Chest/Lungs Assessment	eExam.22	Lung Assessment Finding Location
		eExam.23	Lung Assessment
		eExam.24	Chest Assessment Finding Location
		eExam.25	Chest Assessment



47 Renamed Elements in StateDataSet

ElementNumber	ElementName
sState.01	State
sSoftware.01	Software Creator
sSoftware.02	Software Name
sSoftware.03	Software Version
sElement.01	State Collected Element
sConfiguration.01	State Certification/Licensure Levels
sConfiguration.02	EMS Certification Levels Permitted to Perform Each Procedure
sConfiguration.03	Procedures Permitted by the State
sConfiguration.04	EMS Certification Levels Permitted to Administer Each Medication
sConfiguration.05	Medications Permitted by the State
sConfiguration.06	Protocols Permitted by the State
sAgency.01	EMS Agency Unique State ID
sAgency.02	EMS Agency Number
sAgency.03	EMS Agency Name
sfacility.01	Type of Facility
sfacility.02	Facility Name
sfacility.03	Facility Location Code
sfacility.04	Hospital Designations
sfacility.05	Facility National Provider Identifier
sfacility.06	Facility Room
sfacility.07	Facility Street Address
sfacility.08	Facility City
sfacility.09	Facility State
sfacility.10	Facility ZIP Code
sfacility.11	Facility County
sfacility.12	Facility Country
sfacility.13	Facility GPS Location
sfacility.14	Facility US National Grid Coordinates
sfacility.15	Facility Phone Number



Every element in StateDataset section is now a National Element

NEMSIS
BETTER DATA. BETTER CARE.

StateDataSet

NEMSIS v3.4.0 State Data Set Builder

NEMSIS
Presented by the NEMSIS Office of EMS

NEMSIS
v3.4.0 State Data Set Builder

Instructions

As a state EMS data manager, you can use the NEMSIS v3.4.0 State Data Set Builder to provide information necessary for local EMS agencies and their vehicles to share.

- Start with Step 1 in the menu select your state/territory.
- Walk your way through the remaining steps (1-9) to fill gaps that don't apply to your state.
- When you're done, select "Save" and the State Data Set Builder will create an XML file that you can submit to the NEMSIS TAC for publishing.
- Optional: Select "Preview" to see what your State Data Set will look like when published by the NEMSIS TAC.

For further instructions, see the NEMSIS v3.4.0 State Data Set Builder - State Data Manager User Guide.

Note: The State Data Set Builder does not support NEMSIS v3.5.0. For v3.5.0, your state-level software system is required to generate your State Data Set.

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StateDataSet

Element StateDataSet

Dataset Schemas (v3.5.0):

- [v3_DEM/EMS/State.XSDg \(zip\)](#)
- [v3_EMS/PCR/EventLAPI \(web\)](#)
- [v3_DEM API \(web\)](#)
- [v3 State API \(web\)](#)

Namespace: http://www.nemsis.org

Annotations: Root Tag for State Dataset

Diagram:

Attributes


- timestamp
Type: DateTimeType
- effectiveDate
Type: DateTimeType

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StateDataSet **Added**
Recommended Elements

Element Type:	National
Section Names:	sAgency, sFacility
Change:	Added elements
Usage:	Recommended
# of Elements	10


ElementNumber	ElementName
sAgency.01	EMS Agency Unique State ID
sAgency.02	EMS Agency Number
sAgency.03	EMS Agency Name
sFacility.01	Type of Facility
sFacility.02	Facility Name
sFacility.03	Facility Location Code
sFacility.04	Hospital Designations
sFacility.09	Facility State
sFacility.10	Facility ZIP Code
sFacility.11	Facility County



StateDataSet **Mandatory**
Elements

Element Type:	National
Section Names:	seCustomConfiguration, sdCustomConfiguration
Change:	Added elements
Usage:	Mandatory
# of Elements	10

ElementNumber	ElementName
seCustomConfiguration.01	Patient Care Report Custom Data Element Title
seCustomConfiguration.02	Patient Care Report Custom Definition
seCustomConfiguration.03	Patient Care Report Custom Data Type
seCustomConfiguration.04	Patient Care Report Custom Data Element Recurrence
seCustomConfiguration.05	Patient Care Report Custom Data Element Usage
sdCustomConfiguration.01	Agency Demographic Custom Data Element Title
sdCustomConfiguration.02	Agency Demographic Custom Definition
sdCustomConfiguration.03	Agency Demographic Custom Data Type
sdCustomConfiguration.04	Agency Demographic Custom Data Element Recurrence
sdCustomConfiguration.05	Agency Demographic Custom Data Element Usage




dAgency **Changes** from National to State

v3.4

v3.5

dAgencyAgencyYearGroup	
1..1	dAgency 15 - Statistical Calendar Year
1..1	dAgency 16 - Total Primary Service Area Size
1..1	dAgency 17 - Total Service Area Population
1..1	dAgency 18 - 911 EMS Call Center Volume per Year
1..1	dAgency 19 - EMS Dispatch Volume per Year
1..1	dAgency 20 - EMS Patient Transport Volume per Year
1..1	dAgency 21 - EMS Patient Contact Volume per Year
0..1	dAgency 22 - EMS Billable Calls per Year

dAgencyAgencyYearGroup	
0..1	dAgency 15 - Statistical Calendar Year
0..1	dAgency 16 - Total Primary Service Area Size
0..1	dAgency 17 - Total Service Area Population
0..1	dAgency 18 - 911 EMS Call Center Volume per Year
0..1	dAgency 19 - EMS Dispatch Volume per Year
0..1	dAgency 20 - EMS Patient Transport Volume per Year
0..1	dAgency 21 - EMS Patient Contact Volume per Year
0..1	dAgency 22 - EMS Billable Calls per Year



dConfiguration to sConfiguration Changes

Element Type:	National
Section Name:	dConfiguration
Change:	Renamed and moved to StateDataSet section
Usage:	Required
Impact:	No change to provider experience
# of Elements	4

v3.4		v3.5	
dConfiguration.02	State Certification/Licensure Levels	sConfiguration.02	EMS Certification Levels Permitted to Perform Each Procedure
dConfiguration.03	Procedures Permitted by the State	sConfiguration.03	Procedures Permitted by the State
dConfiguration.04	Medications Permitted by the State	sConfiguration.05	Medications Permitted by the State
dConfiguration.05	Protocols Permitted by the State	sConfiguration.06	Protocols Permitted by the State

Changed State Elements

Element Type:	State
Section Names:	ePersonnel, eVitals, eProcedures, eProtocols
Change:	Changed
Usage:	Recommended
Summary:	See notes
Impact:	See notes
# of Elements	4

ElementNumber	ElementName	Revision Summary	Revision Impact
dPersonnel.24	EMS Personnel's State EMS Certification Licensure	Remove reference to 2009 standard	Some impact on provider experience
eVitals.08	Method of Blood Pressure Measurement	Now State only element; now 0:1	No change to provider experience
eProcedures.13	Vascular Access Location	Values added	Improves provider experience
eProtocols.02	Protocol Age Category	Now State only; now 0:1	Some impact on provider experience


CustomConfiguration Changes

Element Type:	Optional
Section Name:	dCustomConfiguration & eCustomConfiguration
Change:	Minimum length increased to 2.
Usage:	Mandatory
Impact:	No change to provider experience
# of Elements	2

ElementNumber	ElementName	ged/Rename	Usage	Revision Summary
dCustomConfiguration.02	Custom Definition	Changed	Mandatory	Minimum length increased to 2.
eCustomConfiguration.02	Custom Definition	Changed	Mandatory	Minimum length increased to 2.



Good data documentation can tell a powerful story.



- Provide accurate and complete PCRs to receiving facility for the continuum of care
- Proper and timely reimbursement and funding
- State rules and regulations
- Evaluation of clinician performance
- EMS system performance
- Public health surveillance & research
- Clinical & academic research

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