1. Candidate Updates
   – Schematron Guide
   – Documentation/Dictionary
   – National Schematron Rules

2. Public Comment Period
Primer

NASEMSO.org > Councils > Data Managers > Documents & Resources

Data Validation in the NEMSIS XML Standard

Using the XML Schema and Schematron

Joshua Legler
November 2013
Tech Tutorial

NEMSIS.org > V3 > Downloads > Schematron
CANDIDATE UPDATES
Download

NEMSIS.org

Latest News

NHTSA / NEMSIS Version 3.4.0 CR 1 (Candidate Release for Review)

The NEMSIS Technical Assistance Center is pleased to announce the NEMSIS Version 3.4.0 candidate release is available for review.

The review period is open through January 31, 2015.

There are multiple resources available in the v3.4.0 CR1 zip file, including XSDs and Data Dictionaries (Web Version and PDF) for the Full EMS and DEM (Agency information) DataSets plus those for CAD and Medical Device. Please access the updated documents here.

Also available for review is the v3.4.0 candidate national Schematron file in a ZIP archive file. This file contains:

- dist: National Schematron files (plus *.xml versions for documentation viewing)
- documentation: Schematron Guide, Change Log
- utilities/html: HTML documentation interface files

Please access the candidate national Schematron files here.

We look forward to your review! Comments should be submitted via the NEMSIS TAC Version 3 jforum. Log in and post your Review for Accuracy comments in "v3.4.0 CR 1 Review" section. Please link. Comments can be submitted through January 31, 2015.

We would like to thank the many dedicated EMS stakeholders that have spent significant time, providing their expertise and recommended revisions to the NEMSIS Version 3 Standard. Through your efforts the NEMSIS standard is a success nationally!
NEMESIS TAC Whitepaper

NEMESIS V3 Schematron Guide

Date
November 23, 2011 (Final)
January 17, 2014 (Rewritten – Candidate Release 1)
March 3, 2014 (Updated)
December 30, 2014 (Updated)

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National Rules

This year’s focus:

Constraints that are stated or implied in the Data Dictionary but cannot be enforced using XSD.
National Rules

Demographics and PCRs:

• When a repeatable element is recorded as “None,” no other value should be recorded.

• When a repeatable element has a Not Value or Pertinent Negative, no other value should be recorded.
Demographics:

- EMS Agency Census Tracts should belong to a county in the state with which they are grouped.
- Statistical Calendar Year should be in the past.
- When Organizational Type is “Fire Department,” Fire Department ID Number should be recorded.
National Rules

PCRs:

• Date/times should be no later than the current date/time.
• When Age is recorded, Age Units should be recorded.
• When Mass Casualty Incident is "Yes", Triage Classification for MCI Patient should be recorded.
• (Incident/Destination) County should belong within the (Incident/Destination) State.
• When a symptom or impression is injury-related, Possible Injury should be “Yes.”
• When Possible Injury is “Yes,” but a patient is not treated, injury elements are not required.
National Rules

PCRs:

• When Cardiac Arrest is “Yes,” Cardiac Rhythm on Arrival at Destination should be recorded.

• When Type of CPR Provided contains “Compressions...,” Resuscitation Attempted By EMS should contain “Initiated Chest Compressions.”

• When Type of CPR Provided contains “Ventilation...,” Resuscitation Attempted By EMS should contain “Attempted Ventilation.”

• When Medication Dosage is recorded, Medication Dosage Units should be recorded.
National Rules

PCRs:

• More elements are added to the list of required elements based on Incident/Patient Disposition.

• When Type of Destination is “Hospital-Non-Emergency Department Bed,” Hospital In-Patient Destination should be recorded.

• When Type of Destination is “Hospital” or “Freestanding ED,” Hospital Capability should be recorded.

• When Type of Destination is not “Hospital” or “Freestanding ED,” the following should be “Not Applicable:” Hospital In-Patient Destination, Hospital Capability
Performance

Schematron Performance: PCRs

- 116ms + 147ms per PCR
- 17ms + 47ms per PCR
- 68ms + 28ms per PCR

Seconds vs. PCRs graph
Schematron Development Kit

- Will be updated when 3.4.0 is final
PUBLIC COMMENT PERIOD
Public Comment

Go to https://www.nemsis.org/jforum/

Sign in and go to v3.4.0 CR1 Schematron Review

Or follow the link currently on the NEMSIS home page