

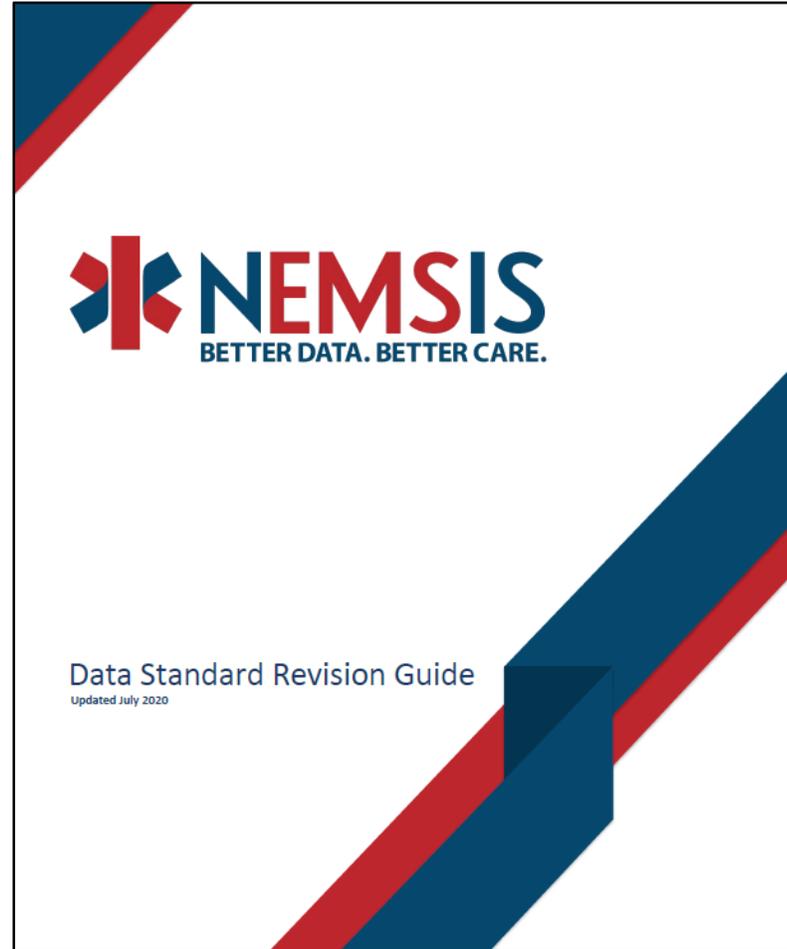
Confirming a Revision Cycle for NEMSIS



NEMSIS ANNUAL MEETING 2022



Revision Guide



Revision Objectives

When State EMS leaders, in conjunction with the Office of EMS within the National Highway Traffic Safety Administration and NEMSIS Technical Assistance Center, determine that a revision is necessary, strict consideration is given to the following objectives:

1. The need for revision must be significant enough to warrant the effort, resources and cost to States, Territories, and individual EMS agencies required to produce, educate, and implement a revision to the standard.
2. Implementation of the new standard should reduce the burden of data collection placed on EMS clinicians.
3. Collaboration with key stakeholders is essential.
4. The revision reflects current trends and needs of an ever-evolving pre-hospital medical care landscape.
5. The revision is responsive to the complexities of healthcare information exchange.
6. The revision is responsive to new initiatives and key areas of focus for emergency services agencies, States, Territories, Tribes and Federal partners.
7. The revision will improve data quality, collection and utilization of data.



Tuning the Decision to Revise

Current Guidance

Decision to Revise

The decision to revise is initiated by the need to update the data standard to accurately reflect changes in EMS service and care. Abundant consideration is given to the consequences a revision has on clinicians, EMS agencies, States, Territories, and EMS Software Vendors.

The NEMSIS TAC and the NHTSA's Office of EMS fully acknowledge that revisions and updates to the National Data Standard have a significant impact on stakeholders, particularly EMS clinicians. The decision to change the standard is carefully investigated and the benefit must be determined to out-weigh the additional work of implementation.



Semantic Versioning

3.Major.Minor.BuildDateCP#

3: NEMESIS version 3

Major: Significant improvements or changes in functionality, not backwards compatible

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



NEMESIS Version 3 Standard: Informational Build

- Backwards Compatible
 - Dictionary/comments: typos, update a link, etc.
 - Not included in compliance testing
- **Versioning**
 - **No more than every 6 months**

22% of current
suggested revisions



NEMESIS Version 3 Standard: Minor Release

- Backwards Compatible
 - Changes that are more permissive:
 - New elements introduced as “optional”
 - Rules: error to warning
 - Additional value to existing element
 - Downgrade Nat’l elements to non-Nat’l
 - Changing 1:1 to 1:M
 - Included in compliance testing
- **Versioning: Every two years**
 - **Includes all previous informational and minor releases**

30% of current
suggested revisions



NEMESIS Version 3 Standard: Major Release

- NOT backwards compatible
 - Adding required elements
 - Warning to error
 - Upgrading element to Nat'l
- **Versioning: Every 6 years**
 - **Includes all previous informational and minor releases**

48% of current
suggested revisions



NEMESIS Version 3 Standard: Critical Patch

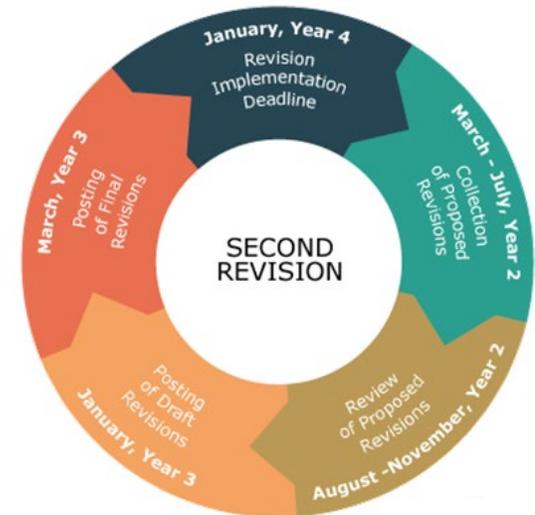
- Corrects security or functionality that seriously compromises the daily function of the standard
 - May NOT be backwards compatible
- **Versioning: Released ad hoc, at most quarterly.**



Revision Cycle/Process

- NEMSIS TAC will maintain (at most) three versions
 - Two Majors, One Minor
- Major versions remain “open” for ~ 8 years

Four Year Development Cycle	
Collection	Collection of Proposed Revisions
Review	Review of Proposed Revisions
Proposed	Posting of Proposed Revisions
Final	Posting of Final Revisions
Implement	Revision Implementation Deadline



NEMESIS Revision Cycle

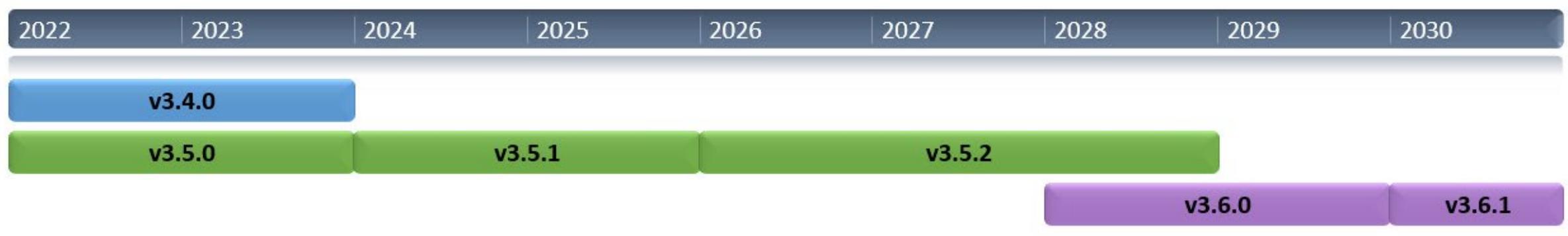
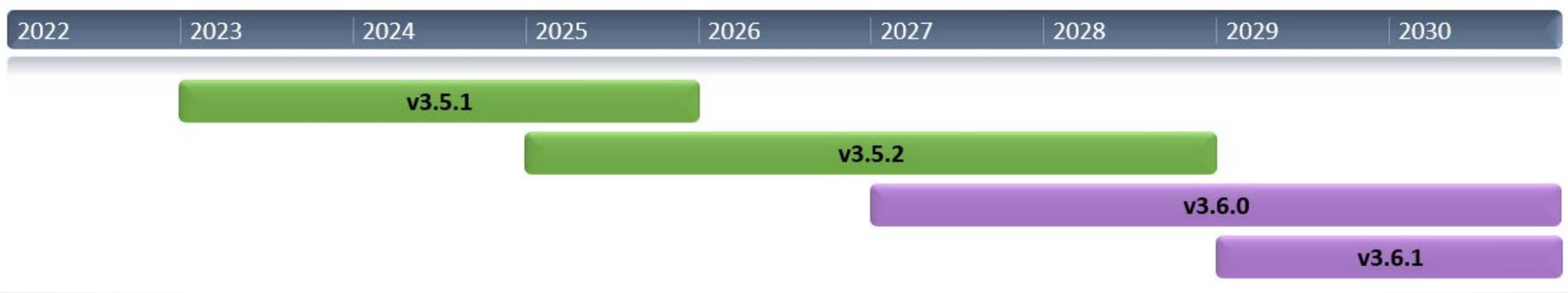


Previous Revision Review Process

- Announcement to submit “last minute” ideas for revisions **(3 months)**.
- Suggested revisions reviewed and classified by the TAC as Major, Minor or, Informational....ongoing.
- All potential revisions “reviewed” and “voted on” during sequential DMC calls **(6 months)**.
- All potential revisions “reviewed and “voted on” during sequential V3 Implementation Call **(6 months)**.
- All votes tallied and “work groups” formed at the V3 Annual Meeting make a final recommendations regarding revisions.
 - Final recommendations then reviewed during three DMC Calls and three V3 Implementation Calls **(3 months)**.



NEMESIS Revision Process



Examples:



Requested Revision Voting

- Please vote (using the following options) after discussion of each topic:
 - **AGILE:** Request should move forward. Information necessary to resolve the request is available.
 - **DEFER:** Request should be deferred to a future revision. Revision has merit, but is too complex, too extensive, missing needed information to include in v3.5.0.
 - **DECLINE:** Request should not move forward or be reconsidered.

https://www.surveymonkey.com/r/LB_SEP2018

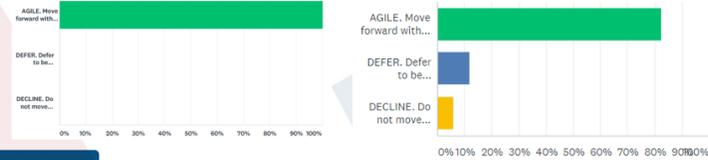


Draft – For discussion purposes only



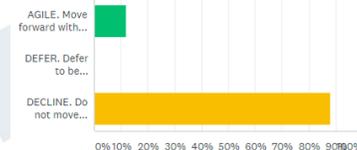
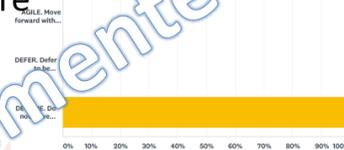
Revise: eAirway (ID LB-3)

- **eAirway.04 - Airway Device Placement Confirmed Method**
 - Change: Add value
 - Chest Rise
 - Comment: Requested by Chip Cooper: “A standard confirmation method”.



Revise: eProcedure (ID LB-11)

- **eProcedure.03 – Procedure**
 - Change Data Type
 - OLD: `xs:integer`
 - NEW: `xs:long`
 - Comment: Need to support element restriction increase from 1,000,000,000 to 999,999,999,999,999 made during 3.3.4 to 3.4.0 revision. (requested by David Saylor 6/1/2017)



Discussion:

- Is timing of revisions adequate?
- How can we improve the revision review process?
 - Earlier process probably biased
 - Vendors might cast one or many votes
 - States might have cast votes once or multiple times

