

Table of Contents

[Overall Updates](#)

[Production HL7 Case Notification Messages](#)

[Developing HL7 Case Notification Messages](#)

[Resources](#)

[Upcoming Events](#)

Overall Updates

NMI Celebrates One Year of Receiving Notifiable Disease Case Notifications Through MVPS

- On Friday, 12/8/17, NMI celebrated one year of receiving disease case notification data from a state public health department through the CDC Message Validation, Processing, and Provisioning System (MVPS).
- One year ago, NMI reached a major milestone when Oregon became the first state to send their generic v2 and hepatitis disease notifications by using new HL7 message mapping guides (MMGs). Oregon also was the first state to have their data received, processed, and provisioned to CDC programs through the newly launched MVPS.
- Now, one year later, 20 states are sending NNDSS data by using the new HL7 case notification messages for generic v2, hepatitis, and arboviral diseases, and these new HL7 messages cover 97 notifiable health events. In addition, the NMI team is developing HL7 case notification messages for 16 other conditions, including sexually transmitted diseases (STD), mumps, pertussis, varicella, foodborne and diarrheal disease (FDD), malaria, and measles. New messages for STDs are expected to go into production in February 2018.
- NMI reaching these milestones is the result of collaboration by teams across CDC and our partners at APHL, CSTE, and the state public health departments. These teams define needed MMG data elements, test and refine MVPS, and assist public health jurisdictions in implementing the messages. ***We thank everyone for their expertise and support!***



Letter on 2018 NNDSS Changes Sent to State Epidemiologists

- The NNDSS team sent all state epidemiologists a letter outlining the changes to NNDSS for surveillance year 2018. Surveillance contacts also received a copy.
- The letter enumerated the new notifiable conditions and conditions under standardized surveillance, changes in case definitions, and updates to the event codes.
- The NNDSS web site at <https://wwwn.cdc.gov/nndss> has been updated to include new and revised surveillance case definitions for 2018 and the 2018 event code lists. The letter is on the "Downloads and Resources" page of the NNDSS web site at <https://wwwn.cdc.gov/nndss/downloads.html>.

NMI eSHARE Updates

- The 2018 NMI eSHARE series will begin on January 16 with the session “Preparing for Sending NNDSS HL7 Case Notifications in 2018.”
- Access past eSHARE presentations and details about future events at the NMI eSHARE website at <http://www.cdc.gov/nmi/eshare.html>.

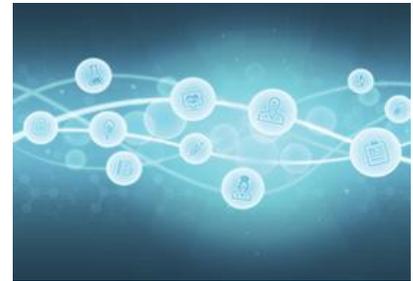
Message Validation, Processing, and Provisioning System Updates

- The Message Validation, Processing, and Provisioning System team completed MVPS Upgrade testing and is finalizing implementation.
- The NMI team encourages all non-pilot jurisdictions to complete the Secure Access Management Services (SAMS) proofing process and confirm their access with the MVPS support team. More information about SAMS access and training may be found on the NMI website at <http://www.cdc.gov/nmi/ta-sams.html>.

Production HL7 Case Notification Messages

Arboviral v1.3

- Maryland is the latest state in production for arboviral. Congratulations, Maryland!
- There are 12 states now in production for arboviral. Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for all the details.



Generic v2

- PHIN Vocabulary and Access Distribution System (VADS) updated value sets for usual country of residence, imported country, country of exposure, birth country, and Federal Information Processing Standard county codes. The PHIN VADS view for generic v2 also was updated. However, these value sets cannot currently be downloaded from PHIN VADS due to limitations in the contract with the standards development organization.
- CDC delivered an updated generic v2 MMG and test scenarios to the HL7 implementers and posted them on the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification/>.
- California and Illinois are the latest states in production for generic v2. Congratulations, California and Illinois!
- There are 12 states in production for generic v2. Delaware is the latest state to engage in onboarding, along with Massachusetts, New Hampshire, and New York City. Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for all the details.

Hepatitis

- CDC updated the hepatitis MMG to support case notifications of perinatal hepatitis C.
- Value sets for several data elements in the lab template were updated in PHIN VADS and documented in the hepatitis MMG and test scenarios. The PHIN VADS view for the hepatitis MMG was also updated.
- CDC delivered updated hepatitis MMG and test scenarios to the HL7 implementers and posted them on the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification/>.
- There are 5 states in production for hepatitis. New York and West Virginia are the latest states to engage in onboarding, along with California and Virginia. Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for all the details.

Developing HL7 Case Notification Messages

Babesiosis MMG (Stage 1—Draft)

- CDC completed all updates to the test scenarios based upon revisions to the MMG.
- The CDC program is reviewing the updated MMG.

Congenital Syphilis (CS) and STD MMGs (Stage II—Pilot Test-ready)

- CDC updated the STD and CS MMG artifacts with value set updates and delivered them to the HL7 implementers.
- PHIN VADS updated the STD and CS vocabulary views.
- NMI technical assistance is working with pilot states to implement the STD and CS messages.
- MVPS user acceptance testing for STD and CS will begin in mid-January.

Valid Values	HL7 Message Context	HL7 Data Type
Country FIPS Codes	OBX segment with OBX-3=INV503	CWE
Country codes for Provinces and States	OBX-5=Value from value Set	
	OBX segment with OBX-3=INV504	ST
	OBX-5=String (up to 199 characters)	RE

Foodborne and Diarrheal Disease MMG (Stage I—Draft):

- CDC is reviewing all feedback from the external review of the draft FDD MMG, test scenarios, test messages, and annotated case report forms.
- Minnesota, New York, and Oregon are serving as Emerging Infections Program (EIP) pilots for FDD. Michigan has agreed to be a non-EIP pilot.

Malaria MMG (Stage I—Draft)

- CDC added a new data element (CDC Specimen ID) to the malaria MMG for linkage of cases to CDC lab data. CDC updated the guide with the new data element name, description, and local code and updated the HL7 segments.
- CDC will submit an Office of Management and Budget (OMB) nonsubstantive change request to add this data element to the OMB package, after the 2017 OMB revision package has been approved.

Measles MMG (Stage I—Draft)

- No new updates at this time.

Mumps and Pertussis MMGs (Stage II—Pilot Test-ready)

- CDC updated the PHIN VADS value sets and vocabulary views for both guides.
- CDC updated test data for several pertussis test scenarios to ensure consistency among the generic v2, condition-specific, and lab template data elements.
- CDC delivered new pilot test-ready versions of the mumps and pertussis artifacts to the HL7 implementers.
- Florida, Kansas, Louisiana, Michigan, New York City, Oregon, and Utah are piloting the mumps and pertussis MMGs.

Respiratory and Invasive Bacterial Disease (RIBD) MMG (Requirements Analysis)

- The RIBD MMG will incorporate disease-specific data for case-based surveillance of legionellosis to support the CDC Winnable Battles campaign.
- This MMG is a collaborative effort among the CDC National Center for Emerging and Zoonotic Infectious Diseases, National Center for Immunization and Respiratory Diseases, and the Division of Health Informatics and Surveillance.
- The team expects to complete the first draft this month and is targeting June 2018 to have data flowing from states to CDC in the new HL7 messages.

Rubella and Congenital Rubella Syndrome (CRS) MMGs (Stage I—Draft)

- CDC is making changes to the CRS MMG based on external review feedback.
- CDC is going through internal review of the rubella MMG.

Trichinellosis (Requirements Analysis)

- No new updates at this time.

Varicella MMG (Stage II—Pilot Test-ready)

- CDC updated value sets in the varicella MMG and test case scenario files.

- CDC delivered the second release of the pilot test-ready package (MMG, test scenarios, test messages, and annotated surveillance worksheet) to MVPS.
- Florida, Kansas, Michigan, and Utah are piloting the varicella MMG.

Resources

- NMI Technical Assistance and Training Resource Center: <https://www.cdc.gov/nmi/ta-trc/index.html>
- NNDSS HL7 Case Notification Resource Center: <https://wwwn.cdc.gov/nndss/case-notification/>
- NMI Notes Monthly News Update: <https://www.cdc.gov/nmi/news.html>
- NMI eSHARE Monthly Webinar: <http://www.cdc.gov/nmi/eshare.html>
- NMI Newsroom: <https://www.cdc.gov/nmi/newsroom.html>
- NMI Internet Site (includes NMI fact sheets and FAQs): <http://www.cdc.gov/nmi/>



Jurisdiction Implementation of NNDSS HL7 Case Notification Messages

■ = Message in Production
 ■ = Onboarding
 ■ = Receiving TA
 ■ = Pilot

Jurisdiction	Arboviral	Generic Version 2	Hepatitis	Congenital Syphilis*	Foodborne Diarrheal Disease*	Mumps*	Pertussis*	Sexually Transmitted Diseases*	Varicella*
Alabama									
Alaska									
Arizona									
Arkansas									
California									
Delaware									
Florida									
Idaho									
Illinois									
Indiana									
Kansas									
Kentucky									
Louisiana									
Maine									
Maryland									
Massachusetts									
Michigan									
Minnesota									
Mississippi									
New Hampshire									
New Jersey									
New York									
New York City									
North Carolina									
Oregon									
South Carolina									
South Dakota									
Tennessee									
Texas									
Utah									
Virginia									
West Virginia									
Wisconsin									

* These guides are currently being piloted by a small number of states and are not yet available to other states for implementation.

This chart shows the status of state public health departments who are piloting, receiving technical assistance, onboarding, or in production for HL7 case notification messages developed as part of the NNDSS Modernization Initiative.

Upcoming Events

- NMI eSHARE; 1/16/18, 3:00PM ET;
<http://www.cdc.gov/nmi/eshare.html>
- 2018 CSTE Annual Conference; 6/10/18 to 6/14/18:
<http://csteconference.org/2018/>
- 2018 Public Health Informatics Conference; 8/20/18 to 8/23/18:
<http://phiconference.org/>



Have questions or feedback on NMI Notes? Email edx@cdc.gov.

NMI Notes provides monthly news updates about the National Notifiable Diseases Surveillance System (NNDSS) Modernization Initiative (NMI). It is a collaboration by the Centers for Disease Control and Prevention (CDC), Council of State and Territorial Epidemiologists (CSTE), and Association of Public Health Laboratories (APHL).

If a colleague forwarded this issue to you, we encourage you to [subscribe at this link](#) to ensure that you receive future issues of *NMI Notes*.

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