

Free!

Easy-access tool to test for HL7 v2 conformance

- ✓ EHR and IIS vendor self-testing
- ✓ AIRA Assessment Testing
- ✓ HIMSS/CNI/CDC EHR Certification Testing
- ✓ ONC HIT Certification Testing
- ✓ On-boarding

Better data quality, faster interface development, and reduced costs

Issues and Need

- CDC developed and prescribes use of HL7 v2.5.1 Implementation Guide for Immunization Messaging R1.5 for
 - Submission of immunizations
 - Query and response of immunization records
- Implementers must apply Standard as specified for seamless data exchange

Description of NIST HL7 v2 Immunization Test Suite

- Testing checks for non-conformance to Standard
- NIST test tool includes both context-free testing and context-based testing
- Context-free testing provides a simple method for testing message structure and vocabulary
- Context-based testing provides
 - Additional testing capabilities through the means of directed test cases and example messages
 - A powerful mechanism to help implementers understand the intent of the implementation guide via typical real world scenarios

NIST Immunization Test Suite

<https://hl7v2-iz-r1-5-testing.nist.gov/>

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Advantages

- Implementations that conform to the standard are more likely to interoperate seamlessly upon installation, saving both time and money

The NIST HL7 v2 testing tool is used by implementers for self-testing, ONC EHR Certification, HIMSS EHR Certification, and AIRA Assessment

6/16/18

NIST Immunization Test Suite –HL7 v2 Message Testing

1

Select HL7 Context-free from the Menu Bar.

2

Select conformance Profile.

3

Load the message into the Message Content window.

4

Click the Validate button to initiate validation of the message.

Home

1 SOAP Envelope

2 SOAP Connectivity

3 HL7 Context-free

4 HL7 Context-based

Documentation

About

Hello Guest

Test Execution

Profile Group Type: Public

Profile Groups: Immunization 2.5.1 IG Release 1.5

Profiles

Immunization 2.5.1 IG R

VXU-Z22

ACK-Z23

QBP-Z34

QBP-Z44

RSP-Z31

RSP-Z32

RSP-Z33

RSP-Z42

Validation

Report

Profile Viewer

ValueSets

Message Tree

MSH[1]:Message Header R[1,1]
PID[1]:Patient Identification R[1,1]
PD[1]:Patient Additional Demographic RE[0,1]
NK[1]:Next of Kin / Associated Parties RE[0,*]
ORC[1]:Common Order R[1,1]
RXA[1]:Pharmacy/Treatment Administration R[1,1]
RXA[1]-1[1]:Give Sub-ID Counter R[1,1]
RXA[1]-2[1]:Administration Sub-ID Counter R[1,1]
RXA[1]-3[1]:Date/Time Start of Administration R[1,1]
RXA[1]-5[1]:Administered Code R[1,1]
RXA[1]-5[1].1:Identifier R
33332-0010
RXA[1]-5[1].2:Text RE

Message Content

4s

Validate

Load Example

Browse

Download

Clear

1 MSH|^~&|Test EHR Application|X68||NIST Test Iz Reg|20120701082240-0500|
2 PID|1||D26376273|^^^NIST MPI^MR||Snow^Madelynn^Ainsley^^^^^L|Lam^Morgan^
3 PD1|||||02^Reminder/Recall - any method^HL70215|||||A|20120701|201
4 NK1|1|Lam^Morgan^A^^^^^L|MT^Mother^HL70063|32 Prescott Street Ave^^Marwic
5 ORC RE|IZ-783274^NDA|||||I-23432^Burden^Donna^A^^^^^NIST-AA-1^^^^PRN|
6 RXA 0|1|20120814||33332-0010^Influenza, seasonal, injectable, preservati
7 RXR C28161^Intramuscular^NCIT|LD^Left Arm^HL70163
8 OBX 1|CE|64994-7^Vaccine funding program eligibility category^LN|1|V05^V
9 OBX 2|CE|30956-7^Vaccine type^LN|2|88^Influenza, unspecified formulation
10 OBX 3|TS|29768-9^Date vaccine information statement published^LN|2|20120
11 OBX 4|TS|29769-7^Date vaccine information statement presented^LN|2|20120

Message Validation Result

Help

2 Errors

17 Warnings

21 Alerts

2 All

1 Value Set

1 Coded Element

Highlight All

Path

Description

Line #

RXA[1]-5[1].1

The value '33332-0010' at location Component RXA-5.1 (Identifier) is not a member of the value set NDC_Use or NDC_Sale

6

NK[1]-3[1].3

Invalid Code System: Expected: 'HL70063', Found: 'HL70064'

4

Remove Duplicates

Report

5

View the validation results displayed in the Message Validation Result window.

6

Click on the Report button to view the Message Validation Report