**Immunization Test Tool Release Notes for Version 1.5.0 February 8, 2017**

**Data**

| **Test Case** | **Issue** | **Resolution** |
| --- | --- | --- |
| Administration Group  Test Case: IZ-AD-1\_Admin\_Child  Test Step: IZ-AD-1.1\_Send\_V04\_Z22 | Notes for Testers contains obsolete information about how the Test Tool handles validation related to sequencing of segments | Obsolete information about how the Test Tool handles validation related to sequencing of segments has been deleted from Notes for Testers  See updated version of the Understanding Immunization Meaningful Use Certification Testing document (slide 34) posted on the Documentation page of the Test Suite for information about the revised capability |
| Evaluated History and Forecast Group  All Test Cases  All Query Test Steps | The Test Data Category for QPD-3.1 (Patient ID Number) is “Value-Test Case Fixed”, meaning the Tool is validating for the presence of the exact value provided in the test data and generates an error notification if this requirement is not met by the HIT Module being tested | If the HIT Module being tested is unable to control the Patient ID Number value that it creates   * QPD-3.1 in the Query message can be populated with a different value than the one provided in the test data * The Tester can ignore the associated error notification generated by the Tool * The Response message also will have to be modified accordingly   NIST has no plan to change the Test Data Category for QPD-3.1. One reason for designating “Test Case Fixed” for this field was to ensure that the querying system (1) would contain the Patient ID Number that matches the Patient ID Number in the NIST response system and (2) would create a Query message with this value in QPD-3.1 in order for the Tester to be able to perform Display Verification for the Response message.  Explanatory information has been added to the Tool in the **Notes for Testers** section of the **Test Story** tab for each Query Test Step in the Evaluated History and Forecast Group |
| Administration Group  Test Case: IZ-AD-1\_Admin\_Child  Test Step: IZ-AD-1.1\_Send\_V04\_Z22  Test Case: IZ-AD-2\_Admin\_Adult  Test Step: IZ-AD-2.1\_Send\_V04\_Z22  Test Case: IZ-AD-3\_No\_Consent  Test Step: IZ-AD-3.1\_Send\_V04\_Z22  Test Case: IZ-AD-4\_Delete\_Record  Test Step: IZ-AD-4.1\_Send\_V04\_Z22  Test Case: IZ-AD-5\_Refusal  Test Step: IZ-AD-5.1\_Send\_V04\_Z22  Test Case: IZ-AD-6\_Update\_Record  Test Step: IZ-AD-6.1\_Send\_V04\_Z22  Test Case: IZ-AD-8\_Admin\_IIS-Warning  Test Step: IZ-AD-8.1\_Send\_V04\_Z22  Test Case: IZ-AD-9 \_Admin\_IIS-2Warnings  Test Step: IZ-AD-9.1\_Send\_V04\_Z22 | The Immunization IG R1.5 that was adopted for the ONC 2015 Edition certification has conflicting requirements regarding support for the Vaccine Funding Source (messaged in OBX segments). Given the conflicting requirements, should support for the Vaccine Funding Source be required for ONC certification?  Details from the IG:  Table B-2 (Appendix) on pages 369 - 372 in the IG where this information is found is informative not normative, and it was intended by the authors to link the core data elements defined by the CDC for use by IIS to their corresponding HL7 message elements. The “Support Status” values are not equivalent to the HL7 v2 “Usage” values and do not indicate messaging requirements. The Support Status footnote 46 on page 369 of the IG indicates that “Required” in Table B-2 means “Support and Send”, while “Optional” means “Support and Send if Known” (meaning Optional is a “must support”).  Based on guidance from the authors of the Immunization IG R1.5, the Test Suite validates the immunization messages for an OBX segment containing **Vaccine Funding Source** information; Usage for this segment in the Test Suite is “R” = Required. | ONC has determined that, from a regulatory/program perspective, an HIT Module cannot be required to be able to generate messages with the **Vaccine Funding Source** OBX segment for 2015 Edition certification testing.  For certification purposes, ONC permits Testers to ignore the error notification generated by the NIST Immunization Test Suite when this segment is missing.  Since the product under test will have to meet state reporting requirements when implemented, and many states require this information, it may be beneficial for HIT Modules to demonstrate support for the Vaccine Funding Source OBX segment during 2015 Edition certification testing.  Explanatory information has been added to the Tool in the **Notes for Testers** section of the **Test Story** tab for each affected V04\_Z22 Test Step in the Administration Group. |
| Evaluated History and Forecast Group  Test Case: IZ-QR-1\_Query\_Child  Test Step: IZ-QR-1.2\_Response\_K11\_Z42 | The first RXA segment in the Evaluated History section of the message for the IZ-QR-1.2\_Response\_K11\_Z42 test step incorrectly lists “31^Hep B Peds NOS^CVX”:  RXA|0|1|20090415||31^Hep B Peds NOS^CVX|999|||01^historical record^NIP001|||||||||||CP  The associated Juror Document lists “Hep B Peds NOS” in the Evaluated Immunization History section. | The information in this RXA segment has been changed to “45^Hep B Unspec^CVX”:  RXA|0|1|20090415||45^Hep B Unspec^CVX|999|||01^historical record^NIP001|||||||||||CP  The associated Juror Document has been changed to list “Hep B Unspec” in the Evaluated Immunization History section. |
| Administration Group  Test Case: IZ-AD-3\_No\_Consent  Test Step: IZ-AD-3.1\_Send\_V04\_Z22  Test Case: IZ-AD-4\_Delete\_Record  Test Step: IZ-AD-4.1\_Send\_V04\_Z22 | The test messages for these Test Steps require a bar coded VIS for Cervarix; however, Cervarix is no longer available in the U.S., and the current vaccine of choice for HPV vaccinations is the 9vHPV. | The Test Story for *IZ-AD-3.1\_Send\_V04\_Z22* and the test data for the *IZ-AD-3.1\_Send\_V04\_Z22* and *IZ-AD-4.1\_Send\_V04\_Z22* test messages have been changed from Cervarix to Gardasil 9 to better reflect current practice.  RXA|0|1|20150624||58160-0830-05^CERVARIX^NDC|0.5|mL^mL^UCUM||00^New Record^NIP001|7824^Jackson^Lily^Suzanne^^^^^NIST-PI-1^L^^^PRN|^^^NIST-Clinic-1||||795441|20151223|SKB^GlaxoSmithKline^MVX|||CP|A  has been changed to  RXA|0|1|20150624||00006-4119-01^GARDASIL 9^NDC|0.5|mL^mL^UCUM||00^New Record^NIP001|7824^Jackson^Lily^Suzanne^^^^^NIST-PI-1^L^^^PRN|^^^NIST-Clinic-1||||795441|20151223|MSD^Merck and Co., Inc.^MVX|||CP|A  …and the Tool will accept any of the following NDC codes for Gardasil 9:  00006-4119-01  00006-4121-01  00006-4119-03  00006-4121-02  00006-4119-02  OBX|3|CE|69764-9^Document Type^LN|3|253088698300007311110503^Human papillomavirus Vaccine (Cervarix) VIS^cdcgs1vis||||||F|||20150624  has been changed to  OBX|3|CE|69764-9^Document Type^LN|3|253088698300029511161202^HPV Vaccine VIS^cdcgs1vis||||||F|||20150624 |
| Administration Group  All Z22 messages with VIS Barcode data  Evaluated History and Forecast Group  All Z42 messages with VIS Barcode data  Context-free Validation  Any Z22, Z32, or Z42 message with VIS Barcode data | Different PHVS\_VISBarcodes\_IIS Value Set tables are associated with the Z22 vs Z42 vs Z32 profiles in the Immunization Test Suite | The PHVS\_VISBarcodes\_IIS Value Set tables associated with the Z22, Z32, and Z42 profiles have been updated to contain the same values using the information listed on the Web site  <https://www.cdc.gov/vaccines/programs/iis/code-sets/vis-barcode-lookup-table.html> . |
| Context-free Validation  Any Z22, Z32, or Z42 profile message with CVX codes in an RXA Segment or OBX Segment | The Immunization Test Suite does not include the current set of CVX codes. The published set of CVX codes were updated since the last release of the Test Suite. | The CVX Value Set tables associated with the RXA and OBX Segments for the Z22, Z32, and Z42 profiles in the Immunization Test Suite have been updated to contain the current values using the information listed on the Web site <https://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cvx>  Date: 02/06/2017  Note: Since it is not a valid CVX code, code “99” was removed from the code set deployed in the Test Suite. |

**Specific Validation**

| **Issue** | **Resolution** |
| --- | --- |
| The *HL7 Version 2.5.1 Implementation Guide for Immunization Messaging (Release 1.5)—Addendum* expanded the list of Data Types for use in OBX-2 (as given in table 0125). The Validation Engine restricts its “dynamic mapping” capability (i.e., checking that the data in OBX-5 is appropriate for the Data Type in OBX-2) to the limited list of Data Types specified in the IG in the explicit conformance statements. However, some of the data types given in table 0125 are nonsensical for OBX-2. | The Validation Engine dynamic mapping capability has been modified to include DTs from an expanded list of Data Types specified as determined by NIST and Immunization SMEs. The allowable valid list for OBX-2 affects local agreements—not certification requirements. |
| Below is the list of the OBX-2 allowable DTs and associated DT flavor mapping (where applicable): |
|  | <DynamicMapping>                                                 <Mapping Position="5" Reference="2" SecondReference="3.1">                                                             <!--Existing Cases-->                                                             <Case Value="CE" SecondValue= "64994-7" Datatype="CE\_IZ"/>                                                             <Case Value="CE" SecondValue= "69764-9" Datatype="CE\_IZ"/>                                                             <Case Value="CE" SecondValue= "30956-7" Datatype="CE\_IZ"/>                                                                                                                          <Case Value="DT" Datatype="DT"/>                                                             <Case Value="TS" Datatype="TS"/>                                                             <Case Value="ST" Datatype="ST"/>                                                             <Case Value="NM" Datatype="NM"/>                                                             <Case Value="ID" Datatype="ID"/> |
|  | <Case Value="CE" Datatype="CE"/>                                                             <!--Added Cases by 0125-->                                                             <Case Value="CNE" Datatype="CNE"/>                                                  <Case Value="CQ" Datatype="CQ"/>                                                             <Case Value="CWE" Datatype="CWE"/>                                                             <Case Value="CX" Datatype="CX"/>                                                             <Case Value="DTM" Datatype="DTM"/>                                          <Case Value="ED" Datatype="ED"/> |
|  | <Case Value="EI" Datatype="EI"/>                                                             <Case Value="FN" Datatype="FN"/>                                                             <Case Value="FT" Datatype="FT"/>                                                             <Case Value="HD" Datatype="HD"/>                                                             <Case Value="IS" Datatype="IS"/>                                                              <Case Value="LA2" Datatype="LA2"/>                                          <Case Value="RP" Datatype="RP"/>                                                             <Case Value="SAD" Datatype="SAD"/>                                                             <Case Value="SI" Datatype="SI"/>                                           <Case Value="SN" Datatype="SN"/>                                                   <Case Value="TX" Datatype="TX"/>                                                             <Case Value="XAD" Datatype="XAD"/>                                                             <Case Value="XCN" Datatype="XCN"/>                                                             <Case Value="XON" Datatype="XON"/>                                                             <Case Value="XPN" Datatype="XPN"/>                                                             <Case Value="XTN" Datatype="XTN"/>                                                 </Mapping>                                     </DynamicMapping> |

**User Interface**

| **Issue** | **Resolution** |
| --- | --- |
| None |  |

**Core Functionality**

| **Issue** | **Resolution** |
| --- | --- |
| CVX, MVX, NDC, and PHVS\_VISBarcodes\_IIS Value Set tables in the Immunization Test Suite were outdated. | These tables have been updated with the current published codes posted on the CDC Web sites. |

**Documentation**

| **Issue** | **Resolution** |
| --- | --- |
| On Documentation tab under Test Case Documentation, the Test Packages for all of the Test Plans in the Tool (including the Plans for CDC-CNI) are downloaded when a user clicks on the “Download Complete Test Package” button. | The Documentation tab has been modified so Test Package for just the ONC 2015 Test Plan in the Tool is downloaded when a user clicks on the “Download Complete Test Package” button. |
| On Documentation tab under Test Case Documentation, the Example Messages for all of the Test Plans in the Tool (including the messages for CDC-CNI) are downloaded when a user clicks on the “Download Example Messages” button. | The Documentation tab has been modified so Example Messages for just the ONC 2015 Test Plan in the Tool are downloaded when a user clicks on the “Download Example Messages” button. |
| Understanding Immunization Meaningful Use Certification Testing document has obsolete information about sequencing of segments in the test messages | Updated version of the Understanding Immunization Meaningful Use Certification Testing document has been posted on the Documentation page of the Test Suite; slide 34 contains information about the revised capability related to the sequencing of segments in the test messages |
| In the Evaluated History and Forecast Group, all Test Cases, all Query Test Steps: the Test Data Category for QPD-3.1 (Patient ID Number) is “Value-Test Case Fixed”, meaning the Tool is validating for the presence of the exact value provided in the test data and generates an error notification if this requirement is not met by the HIT Module being tested | A new item has been added to the Known Issues document for the Immunization Test Suite regarding how the Tester can handle this issue during conformance testing. |
| In the Administration Group, for V04\_Z22 messages in all Test Cases except IZ-AD-7\_Historical\_IIS-Error and IZ-AD-10\_Historical\_IIS-SysError: based on guidance from the authors of the Immunization IG R1.5, the Test Suite validates the immunization messages for an OBX segment containing **Vaccine Funding Source** information; Usage for this segment in the Test Suite is “R” = Required. | A new item has been added to the Known Issues document for the Immunization Test Suite regarding how ONC allows the Tester to handle this issue during conformance testing when the SUT generates V04\_Z22 messages without an OBX segment containing **Vaccine Funding Source** information. |

**SOAP Functionality**

| **Test Case** | **Issue** | **Resolution** |
| --- | --- | --- |
| SOAP Envelope  SOAPENV\_4\_Security\_Fault | The validator expects the Value element of the Fault Code element to be "Sender" without any namespace prefix (e.g. "s:Sender").  If not set to "Sender" it is causing an error notification “WARNING: CDC\_WSDL 1.0: the Code/Value element must contain a value of ‘Sender’ or ‘Receiver’“ to be generated erroneously. | The SOAP Envelope validator in the Test Tool has been changed and no longer generates this error notification. |

**Improvements/Features**

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| None |

**Issues for a Future Release**

| **Test Case/if Applicable** | **Issue** |
| --- | --- |
|  | None |