**Immunization Test Tool Release Notes for Version 2.0.8 June 7, 2022**

**Data**

| **Test Case / Message Profile** | **Issue** | **Resolution** |
| --- | --- | --- |
| For Z22 messages | Per the CDC, the following **Unit of Sale NDC**s have been added:   * 80777-0100-99 for SPIKEVAX Moderna COVID-19 Vaccine (RED CAP) * 80777-0279-99 for Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 mo to <6 yrs (BLUE CAP) * 80777-0277-99 for Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 yrs to <12 yrs (BLUE CAP) * 49281-0618-20 for Sanofi Pasteur COVID-19 Vaccine, booster dose, adult * 50632-0001-02 for JYNNEOS – Smallpox/Monkeypox vaccine Bavarian Nordic A/S | Updates have been made to the **NDC Unit of Sale Value Set** in the Immunization Test Suite  Added:   * **Code**: 80777-0100-99 * **Code System**: NDC * **Description**: SPIKEVAX Moderna COVID-19 Vaccine (RED CAP) * **Code**: 80777-0279-99 * **Code System**: NDC * **Description**: Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 mo to <6 yrs (BLUE CAP) * **Code**: 80777-0277-99 * **Code System**: NDC * **Description**: Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 yrs  to <12 yrs (BLUE CAP) * **Code**: 49281-0618-20 * **Code System**: NDC * **Description**: Sanofi Pasteur COVID-19 Vaccine, booster dose, adult * **Code**: 50632-0001-02 * **Code System**: NDC * **Description**: JYNNEOS – Smallpox/Monkeypox vaccine Bavarian Nordic A/S |
| For Z22 messages | Per the CDC, the following **Unit of Use NDCs** have been added:   * 80777-0100-11 for SPIKEVAX Moderna COVID-19 Vaccine (RED CAP) * 80777-0279-05 for Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 mo to <6 yrs (BLUE CAP) * 80777-0277-05 for Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 yrs to <12 yrs (BLUE CAP) * 49281-0618-78 for Sanofi Pasteur COVID-19 Vaccine, booster dose, adult * 50632-0001-01 for JYNNEOS – Smallpox/Monkeypox vaccine Bavarian Nordic A/S | Updates have been made to the **NDC Unit of Use Value Set** in the Immunization Test Suite  Added:   * **Code**: 80777-0100-11 * **Code System**: NDC * **Description**: SPIKEVAX Moderna COVID-19 Vaccine (RED CAP) * **Code**: 80777-0279-05 * **Code System**: NDC * **Description**: Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 mo to <6 yrs (BLUE CAP) * **Code**: 80777-0277-05 * **Code System**: NDC * **Description**: Moderna COVID-19 Vaccine Pediatric Vaccine Ages 6 yrs to <12 yrs (BLUE CAP) * **Code**: 49281-0618-78 * **Code System**: NDC * **Description**: Sanofi Pasteur COVID-19 Vaccine, booster dose, adult * **Code**: 50632-0001-01 * **Code System**: NDC * **Description**: JYNNEOS – Smallpox/Monkeypox vaccine Bavarian Nordic A/S |
| For Z22, Z32, and Z42 messages | **“###”** was included erroneously in the Code and Description columns in the CVX Value Set table in the Immunization Test Suite. | **“###”** has been deleted from the CVX Value Set table. |
| For Z22, Z32, and Z42 messages | Per the CDC, the following CVX/VIS mapping additions have been made:   * **CVX Code 227** has been mapped to VIS barcode string 253088698300050911220501 for the **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6yrs to <12yrs** VIS * **CVX Code 228** has been mapped to VIS barcode string 253088698300051611220501 for the **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6mo to <6yrs** VIS * **CVX Code 225** has been mapped to VIS barcode string 253088698300049311220401 for the current **COVID-19 Sanofi-GSK EUA Recipient-Caregiver Fact Sheet – Booster** VIS * **CVX Code 211** has been mapped to the existing VIS barcode string 253088698300037011220101 for the **COVID-19 Novavax EUA Recipient-Caregiver Fact Sheet** VIS | Updates have been made to the **PHVS\_VISVaccines\_IIS** **Value Set** in the Immunization Test Suite  Added:   * **Code**: 227 * **Code System**: CVX * **Description**: **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6yrs to <12yrs** * **Code**: 228 * **Code System**: CVX * **Description**: **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6mo to <6yrs** * **Code**: 225 * **Code System**: CVX * **Description**: **COVID-19 Sanofi-GSK EUA Recipient-Caregiver Fact Sheet – Booster** * **Code**: 211 * **Code System**: CVX * **Description**: **COVID-19 Novavax EUA Recipient-Caregiver Fact Sheet** |
| **COVID-19 Test Plan**  **Test Case**: IZ-COVID-19\_2\_Adult\_Admin\_Pfizer  **Test Step**: IZ-2.1\_AA\_Send\_COVID-19\_Dose-1\_Pfizer  **Test Step**: IZ-2.2\_AA\_Send\_COVID-19\_Dose-2\_Pfizer | Per the CDC, the Description for the VIS Document with Barcode String 253088698300033211210501  has been modified. “COVID-19 Pfizer BioNTech EUA Recipient-Caregiver Fact Sheet” has been changed to  “**COVID-19 Pfizer BioNTech EUA Recipient-Caregiver Fact Sheet-12 years and older**”. | In the Test Messages for the **IZ-2.1\_AA\_Send\_COVID-19\_Dose-1\_Pfizer** and **IZ-2.2\_AA\_Send\_COVID-19\_Dose-2\_Pfizer** Test Steps, the **VIS Description** in the relevant OBX segments has been changed. |

| **Message Profile** | **Issue** | | **Resolution** |
| --- | --- | --- | --- |
| For Z22, Z32, Z42 messages | Per the CDC, the following VIS documents and VIS Codes have been added: | | The new VIS documents with their **Descriptions** and associated VIS **Codes** have been added to the **PHVS\_VISBarcodes\_IIS Value Set** in the Immunization Test Suite  The VIS document **Description for** VIS **Code** 253088698300042411211001 has been **changed** in the **PHVS\_VISBarcodes\_IIS Value Set** in the Immunization Test Suite  The VIS document **Description for** VIS **Code** 253088698300033211210501 has been **changed** in the **PHVS\_VISBarcodes\_IIS Value Set** in the Immunization Test Suite |
|  | **Document Type Description (New)** | **VIS Fully-encoded Test String** |
|  | **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6yrs to <12yrs** | 253088698300050911220501 |
|  | **COVID-19 Moderna EUA Recipient-Caregiver Fact Sheet - Pediatric 6mo to <6yrs** | 253088698300051611220501 |
|  | **COVID-19 Novavax EUA Recipient-Caregiver Fact Sheet** | 253088698300037011220101 |
|  | **COVID-19 Sanofi-GSK EUA Recipient-Caregiver Fact Sheet - Booster** | 253088698300052311220401 |
|  | **COVID-19 Novavax EUA Recipient-Caregiver Fact Sheet** | 253088698300037011220101 |
|  | **Rabies Vaccine VIS** | 253088698300018911220602 |
|  | Smallpox-Monkeypox Vaccine VIS | 253088698300053011220601 |
|  | **Modified Description Only:**  “COVID-19 Pfizer BioNTech Vaccine EUA Recipient/Caregiver Fact Sheet – Pediatric”  changed to  **“COVID-19 Pfizer BioNTech EUA Recipient-Caregiver Fact Sheet- Pediatric 5yrs to <12 yrs”** | 253088698300042411211001 |  |
|  | **Modified Description Only:**  “COVID-19 Pfizer BioNTech EUA Recipient-Caregiver Fact Sheet”  changed to  “COVID-19 Pfizer BioNTech EUA Recipient-Caregiver Fact Sheet-12 years and older” | 253088698300033211210501 |  |

**Specific Validation**

| **Issue** | **Resolution** |
| --- | --- |
| For primitive datatypes, the Immunization Test Suite generates an **Error** notification when the data populating these fields do not conform to the maximum Length limit.  Example: Length for PID-3.1 (ID Number) is set at [1,15], and the Immunization Test Suite generates an **Error** notification when the data populating this field do not conform to this requirement by exceeding the 15-character max limit. | The Test Suite validation has been modified; now (*when the Informational Validation Detection Classification* *on the Validation Settings has been activated by the user\**) an **Informational** notification is generated when the data that are populating primitive datatype fields exceed the maximum Length limit.  An **Informational** notification makes users aware of a detection by the validation engine that may or may not be important to them; it does not constitute a failed validation.  \*See *Note* in **User Interface** section of these Release Notes for the rules related to activation of Detection Classifications. |

**User Interface**

| **Issue** | **Resolution** |
| --- | --- |
| **Validation Detection Classifications** need to include **Informational** and **Spec Error** to allow for more flexibility in notifying the user/tester of detections/ findings by the Immunization Test Suite validation engine. | **Informational** and **Spec Error** Validation Classifications are now displayed on the **Validation Settings** list and can be activated by the user/tester. Text of labels has been changed from “Display Validation Failure Types” to “Display Validation Detection Classifications” (see images below).  Previous New    Activation of a Detection Classification causes a corresponding tab to display in the Message Validation Result window as illustrated below.    *Note*:   * Errors (cannot be inactivated by user/tester), Alerts, and Warnings are activated by default. * If a user/tester accesses the Immunization Test Suite either as a **Guest** or an **Account User** and they *activate/save* the Affirmatives, Informational, and Spec Errors Detection Classifications, the activation of these Detection Classifications **will persist only for that session** and will not carry forward the next time they access the tool. * If a user/tester accesses the Immunization Test Suite either as a **Guest** or an **Account User** and they *deactivate/save* the Alerts and Warnings Detection Classifications, the deactivation of these Detection Classifications **will persist only for that session** and will not carry forward the next time they access the tool. |
| User-defined configurability of the tool is needed in order to provide the user control over the detections the Immunization Test Suite **validation engine** generates. | The **Validation Settings** feature on the **Hello** dropdown menu has been enhanced for enabling the configurability.  The **Preferences** feature of the **Validation Settings** includes two tabs:   1. **Display Validation Detection Classifications** (see image below), which lists the types of notifications that can be displayed to the user/tester on the Message Validation Result window    * Errors (cannot be inactivated by the user)    * Alerts (activated by default, can be inactivated by the user)    * Warnings (activated by default, can be inactivated by the user)    * Affirmatives (can be activated and inactivated by the user)    * Informational (can be activated and inactivated by the user)    * Spec Errors (can be activated and inactivated by the user)      1. **Validation Configuration** (see image below), which lists the structure-based and content-based assertions the validation engine detects as well as the Detection Classification that is set for each assertion; for the Immunization Test Suite, this feature is for viewing only as editing capability using the Classification dropdown menus is blocked for all users – only the NIST Administrator for the Test Suite can change the Preferred Validation Detection Classifications for the listed assertions. |
| Additional Validation Detection Classifications (Informational and Spec Error) are now displayed on the Validation Settings list, and **definitions** of these Detection Classifications are not listed on the Message Validation Result “Help” feature.  The current definitions on the Help feature for **Errors** and **Warnings** need to be updated. | Definitions on the Message Validation Result “Help” feature have been modified/added.  Previous List of Definitions    Updated List of Definitions |

**Core Functionality**

| **Issue** | **Resolution** |
| --- | --- |
|  |  |

**Documentation**

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

**SOAP Functionality**

| **Test Case** | **Issue** | **Resolution** |
| --- | --- | --- |
| None |  |  |

**Improvements/Features**

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| --- |
| None |

**Issues for a Future Release**

| **Test Case/if Applicable** | **Issue** |
| --- | --- |
| All Test Steps with a VXU message/All Test Plans | In a VXU Context-based message where there are multiple OBX segments for each Order Group, if an OBX segment has OBX-3.1 populated with the 69764-9 LOINC code and has OBX-5.1 populated with an incorrect VIS ID, the Test Tool issues an Error notification that indicates   * in the **Path** information the VXU Order Group (e.g., “VXU\_V04.ORDER[1]”) within which the OBX with the error is contained and * in the **Line #** information the line number listed in the Message Content window for the ORC segment in that Order Group. * In the **Description** information that an Error has been found due to there being no OBX segment where OBX-3.1 is populated with the 69764-9 LOINC code and OBX-5.1 is populated with [an expected VIS ID] within in this Order Group.   The Path, Line #, and Description information may or may not be meaningful enough for a Tester to determine which OBX segment contains the VIS ID error.  The Tool will be modified to make the Error notification more specific and meaningful. |
| Context-free Data Quality Assurance (DQA) function | The DQA tab in the Context-free / VXU Z22 function has been removed in order to update the capability. The Tool will be modified with an updated version.  (Demonstration of how DQA is intended to function has been deleted from the updated Tool Tutorial.) |