**Immunization Test Tool Release Notes for Version 2.0.10 October 27, 2022**

**Data**

| **Test Case / Message Profile** | **Issue** | **Resolution** |
| --- | --- | --- |
| For Z22 messages | Per the CDC, the following **Unit of Sale NDC(**s) has/have been added:   * 80777-0282-99 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose (Moderna COVID-19 Vaccine Bivalent Booster) 10 MULTI-DOSE VIALS * 59267-0304-02 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) 10 MULTI-DOSE VIALS * 59267-1404-02 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) 10 SINGLE-DOSE VIALS * 59267-0565-02 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) 10 MULTI-DOSE VIALS * 80777-0283-99 for 10 mcg/0.2 mL dose booster of Original and Omicron BA.4 & BA.5 COVID-19 strains (Moderna) * 59267-0609-02 for 3 mcg/0.2 mL dose Original and Omicron BA.4 & BA.5 COVID-19 strains (Pfizer) * 50090-6026-00 for Pneumococcal conjugate PCV20, polysaccharide CRM197 conjugate, adjuvant, PF (Prevnar 20)   Per the CDC, the following Unit of Sale NDC(s) has/have been added for **the 2022/2023 Influenza Season**:   * 66019-0309-10 for FluMist Quadrivalent | Update(s) has/have been made to the **NDC Unit of Sale Value Set** in the Immunization Test Suite  Added:   * **Code**: 80777-0282-99 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose (Moderna COVID-19 Vaccine Bivalent Booster) 10 MULTI-DOSE VIALS * **Code**: 59267-0304-02 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) 10 MULTI-DOSE VIALS * **Code**: 59267-1404-02 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) 10 SINGLE-DOSE VIALS * **Code**: 59267-0565-02 * **Code System**: NDC * **Description**: 59267-0565-02 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) 10 MULTI-DOSE VIALS * **Code**: 80777-0283-99 * **Code System**: NDC * **Description**: 10 mcg/0.2 mL dose booster of Original and Omicron BA.4 & BA.5 COVID-19 strains (Moderna) * **Code**: 59267-0609-02 * **Code System**: NDC * **Description**: 3 mcg/0.2 mL dose Original and Omicron BA.4 & BA.5 COVID-19 strains (Pfizer) * **Code**: 50090-6026-00 * **Code System**: NDC * **Description**: Pneumococcal conjugate PCV20, polysaccharide CRM197 conjugate, adjuvant, PF (Prevnar 20) * **Code**: 66019-0309-10 * **Code System**: NDC * **Description**: FluMist Quadrivalent |
| For Z22 messages | Per the CDC, the following **Unit of Use NDC(s)** has/have been added:   * 80777-0282-05 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose (Moderna COVID-19 Vaccine Bivalent Booster) * 59267-0304-01 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * 59267-1404-01 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * 59267-0565-01 for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) * 80777-0283-02 for 10 mcg/0.2 mL dose booster of Original and Omicron BA.4 & BA.5 COVID-19 strains (Moderna) * 59267-0609-01 for 3 mcg/0.2 mL dose Original and Omicron BA.4 & BA.5 COVID-19 strains (Pfizer) * 50090-6026-01 for Pneumococcal conjugate PCV20, polysaccharide CRM197 conjugate, adjuvant, PF (Prevnar 20)   Per the CDC, the following Unit of Use NDCs have been added for **the 2022/2023 Influenza Season**:   * 66019-0309-01 for FluMist Quadrivalent | Update(s) has/have been made to the **NDC Unit of Use Value Set** in the Immunization Test Suite  Added:   * **Code**: 80777-0282-05 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose (Moderna COVID-19 Vaccine Bivalent Booster) * **Code**: 59267-0304-01 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * **Code**: 59267-1404-01 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * **Code**: 59267-0565-01 * **Code System**: NDC * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) * **Code**: 80777-0283-02 * **Code System**: NDC * **Description**: 10 mcg/0.2 mL dose booster of Original and Omicron BA.4 & BA.5 COVID-19 strains (Moderna) * **Code**: 59267-0609-01 * **Code System**: NDC * **Description**: 3 mcg/0.2 mL dose Original and Omicron BA.4 & BA.5 COVID-19 strains (Pfizer) * **Code**: 50090-6026-01 * **Code System**: NDC * **Description**: Pneumococcal conjugate PCV20, polysaccharide CRM197 conjugate, adjuvant, PF (Prevnar 20) * **Code**: 66019-0309-01 * **Code System**: NDC * **Description**: FluMist Quadrivalent |
| For Z22, Z32, and Z42 messages | Per the CDC, the following addition(s)/modification(s) has/have been made to the **CVX** table:  Added:   * **CVX code 300** for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * **CVX code 301** for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) * **CVX code 230** for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose (Moderna COVID-19 Vaccine, Bivalent) * **CVX code 302** for SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent, preservative free, 3 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech Covid-19 Vaccine, Bivalent)   Modified Description:   * **CVX Code 206 description** has been updated to support the additional intradermal administration option   + “Vaccinia, smallpox monkeypox vaccine, live attenuated, preservative free”   changed to   * + “Vaccinia, smallpox monkeypox vaccine, live attenuated, preservative free, subcutaneous or intradermal injection” * **CVX Code 229 description updated**   + “SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent, preservative free, 50 mcg/0.5 mL dose”   changed to   * + “SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose” * **CVX Code 75 description updated**   + “vaccinia (smallpox)”   changed to   * “orthopoxvirus” (which extends the vaccine group nomenclature to cover monkeypox and smallpox) | Update(s) has/have been made to the **CVX** **Value Set** in the Immunization Test Suite  Added:   * **Code**: 300 * **Code System**: CVX * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 12 year and older) * **Code**: 301 * **Code System**: CVX * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 30 mcg/0.3mL dose, tris-sucrose formulation (Pfizer-BioNTech COVID-19 Vaccine Bivalent Booster 5 years through 11 years) * **Code**: 230 * **Code System**: CVX * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 10 mcg/0.2 mL dose (Moderna COVID-19 Vaccine, Bivalent) * **Code**: 302 * **Code System**: CVX * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent, preservative free, 3 mcg/0.2 mL dose, tris-sucrose formulation (Pfizer-BioNTech Covid-19 Vaccine, Bivalent)   Description Modified:   * **Code**: 206 * **Code System**: CVX * **Description**: Vaccinia, smallpox monkeypox vaccine, live attenuated, preservative free, subcutaneous or intradermal injection * **Code**: 229 * **Code System**: CVX * **Description**: SARS-COV-2 (COVID-19) vaccine, mRNA, spike protein, LNP, bivalent booster, preservative free, 50 mcg/0.5 mL or 25mcg/0.25mL dose * **Code**: 75 * **Code System**: CVX * **Description**: orthopoxvirus |
| For Z22, Z32, and Z42 messages | Per the CDC, the following CVX/VIS mapping addition(s) has/have been made:  Added:   * **CVX Code 206** has been mapped to VIS barcode string 253088698300053011220823 for the Vaccinia, smallpox monkeypox vaccine, live attenuated, preservative free VIS * **CVX Code 229** has been mapped to VIS barcode string 253088698300034911220901 for the **COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet - 6 yrs and older** VIS | Update(s) has/have been made to the **PHVS\_VISVaccines\_IIS** **Value Set** in the Immunization Test Suite  Added:   * **Code**: 206 * **Code System**: CVX * **Description**: Vaccinia, smallpox monkeypox vaccine, live attenuated, preservative free * **Code**: 229 * **Code System**: CVX * **Description**: **COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet - 6 yrs and older** |
| **COVID-19 Test Plan**  **Test Case**: IZ-COVID-19\_1\_Adult\_Admin\_Moderna  **Test Steps**:  IZ-1.1\_AA\_Send\_COVID-19\_Dose-1\_Moderna  IZ-1.2\_AA\_Send\_COVID-19\_Dose-2\_Moderna | Per the CDC, a VIS Document Barcode String – **253088698300034911220901** – has been added for the new **COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet - 6 yrs and older** VIS related to CVX codes 207, 221, and 229.  The example Test Message provided for Test Step IZ-1.1\_AA\_Send\_COVID-19\_Dose-1\_Moderna  includes:  OBX|3|CE|69764-9^Document Type^LN|3|**253088698300034911210601**^**COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet**^cdcgs1vis | In the Test Messages for the IZ-1.1\_AA\_Send\_COVID-19\_Dose-1\_Moderna and IZ-1.2\_AA\_Send\_COVID-19\_Dose-2\_Moderna Test Steps, the **VIS code** information in the OBX segments has been changed:  OBX|3|CE|69764-9^Document Type^LN|3|**25308869300034911220901**^**COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet - 6 yrs and older**^cdcgs1vis  **Note**: The vaccination dates that were previously included in the **Test Stories** for this Test Case and its two Test Steps have been deleted. |

| **Message Profile** | **Issue** | | **Resolution** |
| --- | --- | --- | --- |
| For Z22, Z32, Z42 messages | Per the CDC, the following VIS document(s) and VIS Code(s) has/have been added: | | The new VIS documents with their **Description** and associated VIS **Codes** have been added to the **PHVS\_VISBarcodes\_IIS Value Set** in the Immunization Test Suite |
|  | **Document Type Description (New)** | **VIS Fully-encoded Test String** |
|  | Smallpox-Monkeypox Vaccine VIS | 253088698300053011220823 |
|  | **COVID-19 Moderna Vaccine EUA Recipient-Caregiver Fact Sheet - 6 yrs and older** | 253088698300034911220901 |

**Specific Validation**

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

**User Interface**

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

**Core Functionality**

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

**Documentation**

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

**SOAP Functionality**

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

**Improvements/Features**

|  |
| --- |
| None |

**Issues for a Future Release**

**ONC 2015 Test Plan**

| **Test Case/if Applicable** | **Issue** |
| --- | --- |
| All Test Steps with a VXU message | 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.) |