



TEXAS  
Health and Human  
Services

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Texas Department of State  
Health Services

# **Texas Immunization Registry Bidirectional Onboarding**

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**Texas Immunization Registry**

# Agenda

- Overview
- Registration
- Preparation
- Testing
- Go Live
- Data Exchange Resources



# Definitions

**Syntropi** - Texas DSHS Immunization Program Portal

**BiDX** – Bidirectional data exchange via web services

**Orgs** – Organizations, specifically parent or standalone sites in ImmTrac2

**Org POC** – Organization point of contact as listed in ImmTrac2

**Org PRC** – Organizations primary registry contact list in ImmTrac2

**VXU** – Unsolicited Vaccine Update Message

**QBP** – Query by Parameter Message



# Objectives

- Navigate to the "DX" Bidirectional data exchange module in Syntropi
- Complete and submit an electronic Bidirectional registration of intent
- Perform pre-testing
- Establish a Bidirectional interface with the training ImmTrac2 environment
- Pass testing with a > 90% success rate
- Promote Bidirectional data exchange in the production ImmTrac2 environment



# Overview

# Benefits of BiDX Onboarding

Allows parent or standalone orgs to:

- Onboard using streamlined process
- Use existing Syntropi registration to indicate interest in BiDX onboarding
- Submit registration of intent electronically
- Submit test messages for HL7 message validation
- Download test and production WSDL to connect with the registry
- Receive auto-generated data quality metrics and reports

Electronic health records (EHR) vendors able to track providers' status



# Accessing BiDX Onboarding

Only accessible once registration is approved by DSHS

Login to HHS Enterprise Portal.

Select the Syntropi – CRC option under Applications





Identify the BiDX widget on menu

If not listed, may be an issue with user association or BiDX registration, reach out to [ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov) for questions



Texas Department of State Health Services

Get Started . . . Click below to complete tasks to finish setting up your clinic's account.

|  |   |  |
|--|---|--|
| <br><b>Policy Documents</b><br>Complete & Submit required forms.<br>✓ ImmTrac2 Org Agreement<br><br><a href="#">Renew now</a>   | <br><b>Texas Vaccines for Children and Adult Safety Net Program</b><br><br><b>Enrollment Status</b><br>Not Started<br>No Enrollment Data Available for 2021<br><br><a href="#">Click to Start VFC Enrollment</a> | <br><b>PANDEMIC PROVIDER ENROLLMENT</b><br><br>Enroll as Pandemic Provider to request COVID-19 Vaccine<br><br><a href="#">Click to Start Pandemic Provider Enrollment</a> |
| <br><b>Bidirectional Data Exchange</b><br><br><a href="#">Click to submit your registration of Intent for Bidirectional Exchange of Immunization with the Texas Immunization Registry</a> | <br><b>Support Ticket</b><br>Submit a Support Ticket<br>View Ticket Status   |  |

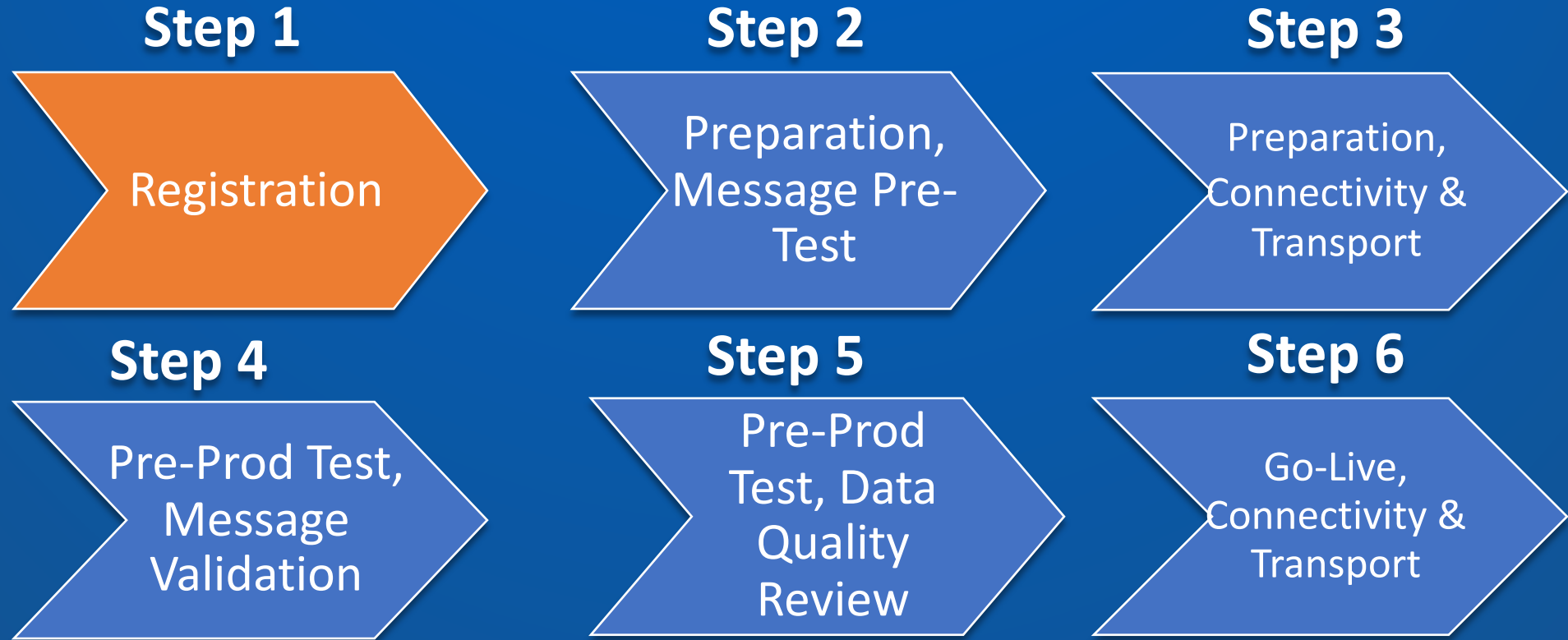
# Steps for BiDX Onboarding

1. Registration
2. Preparation, Message Pre-Testing
3. Preparation, Connectivity & Transport
4. Pre-Production Testing, Message Validation
5. Pre-Production Testing, Data Quality Review
6. Go-Live, Connectivity & Transport





# Step 1: Registration



# Site Agreement (1 of 3)

Required items to be completed in Step 1 :

- Fill out and sign the Registration of Intent (ROI) for BiDX.
- Indicate whether your org will be a parent site with associated child sites, or a standalone site
- Review your orgs point of contact.
- Indicate how your org will submit registry consent.



# Site Agreement (2 of 3)

## Organization Relationship Status

Will your organization report or submit for multiple locations/facilities?  Yes  No

## Contacts

- Review your organization's Point of Contact.

**Organization Point of Contact**

When the Registration of Intent is received by the Texas Immunization Registry, the person listed below will receive an email with instructions on how to complete the onboarding process for bidirectional data exchange.

**Note:** The person listed must be an employee of the facility indicated above.

| First Name | Last Name | Title   | Phone Number   | Email                |
|------------|-----------|---------|----------------|----------------------|
| Fred       | Sprutz    | Manager | (123) 123-1234 | FredS@sproutcare.com |



# Site Agreement (3 of 3)

## Contact Information

1. Primary Data Exchange Contact
2. Secondary Data Exchange Contact
3. Information Technology Contact

**Note:** Contacts must be different people with unique email addresses



# Registration of Intent (1 of 7)

## Readiness

- Confirm whether your org is currently submitting data to ImmTrac2
- Confirm whether your org and associated EHR is capable of bidirectional data exchange

\*Is your facility currently exchanging HL7 data with the registry?

Yes  No

\*Are your facility and EHR vendor ready and able to perform bidirectional data exchange?

Yes  No



# Registration of Intent (2 of 7)

## EHR Vendor

- Fill in details for your EHR solution, including whether they can send HL7 2.5.1 formatted data

**Electronic Health Record Vendor**

Review the current information for your EHR and make updates as needed.

\*Select the company name of your EHR Vendor.

If your EHR Vendor is not listed, please select OTHER from the list.

\*Select the EHR Product used in this location.

\*Can the EHR send HL7 2.5.1 formatted data?  Yes  No

If your EHR vendor cannot support HL7 2.5.1, your organization cannot proceed with bidirectional data exchange onboarding. Please contact [ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov) for assistance with unidirectional data exchange onboarding.

\*Select/Add your Electronic Health Record Contact from the company selected above.

EHR Contact Name (Not in the list above)

| First Name                           | Last Name                           | Phone Number*  | Email Address*                                      |
|--------------------------------------|-------------------------------------|--|---|
| <input type="text" value="Solomon"/> | <input type="text" value="Alscip"/> | <input type="text" value="565"/> <input type="text" value="444"/> <input type="text" value="8798"/> x <input type="text"/> | <input type="text" value="solomon@allscripts.com"/> |

While entering other contact name for EHR, please enter at least phone number or email address.



# Registration of Intent (3 of 7)

## Authorization to Release Credentials

Authorize the registry (ImmTrac2) to release your credentials to your EHR vendor.

\*Please select one of the following:

Yes I authorize the registry to release the BIDX credentials to the EHR Vendor.

No I DO NOT authorize the registry to release the BIDX credentials to the EHR Vendor.

# Registration of Intent (4 of 7)

## 3<sup>rd</sup> Party Data Aggregation

Will your organization connect to ImmTrac2 via a 3<sup>rd</sup> party aggregation bridge?

Integrated Delivery Service Network (IDNS)

Health Information Exchange (HIE)

**Note:** A data aggregation bridge acts as a connection to ImmTrac2 where data is sent from your organization's EHR solution to the data bridge and forwarded to ImmTrac2.

**Examples:** CDC Immunization Gateway (IZ Gateway), Iron Bridge, or Health Information Exchange (HIE).





# Registration of Intent (5 of 7)

## Data Exchange Method

- Update Only (only sending immunization date)
- Query Only (look up/search immunization data) or
- Update and Query (both send and receive immunization data)

\*Which method will your facility (through your EHR Vendor) use for bidirectional data exchange?

Update and Query

- **Note:** Your organization must be able to perform bidirectional exchange formatted in HL7 2.5.1 to proceed with onboarding. Contact [ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov) for assistance with unidirectional data exchange onboarding.



# Registration of Intent (6 of 7)

- Review your information
- Check the box to verify that you are authorized to sign for your organization
- Click the **Edit** button to return and revise it, or **Sign & Submit** to proceed.
- On the next screen check the box to sign electronically, click the **Submit** button

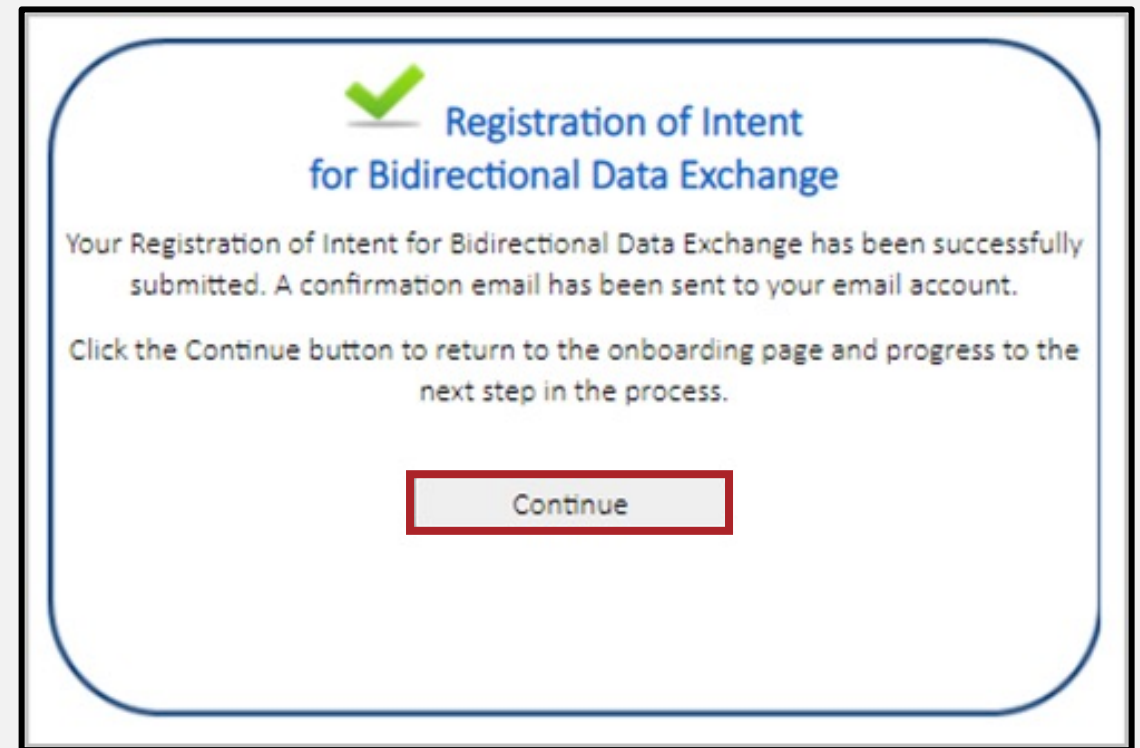
I have read and agree to comply with the Organization Agreement and Confidentiality Statement as presented in this section.

Signed electronically by:



# Registration of Intent (7 of 7)

- After submitting your registration of intent, you will receive a confirmation message
- Select **“Continue”**



# Registration Status

This screen reviews the registration status

**Registration**

At this point the ImmTrac2 Confidentiality Agreement has been submitted and the Data Exchange profile completed. Click Continue below to read about Texas' consent requirements and tell how this organization intends to submit it.

- Submit the ImmTrac2 Confidentiality Agreement
- Submit BIDX Registration of Intent (ROI) 
- Consent Mode: Flat File or HL7 Submission or Manually

[Continue](#)

# Consent Mode (1 of 3)

Indicate how your organization will submit registry consent:

- Flat File
- HL7 Submission
- Manually

Indicate below how you intend to submit patient consent.

Flat File  
Selecting this option indicates patient consent will be sent in a flat file, which is separate from HL7 submissions to ImmTrac2

HL7 Submission  
Selecting this option indicates that patient consent will be included in updates from your electronic health record's HL7 submission to ImmTrac2

Manually  
Selecting this option indicates patient consent will be manually entered into the ImmTrac2 by a staff member from this organization

**Note:** Flat File and Manually reporting methods are not recommend for BiDX onboarding.



## Consent Mode (2 of 3)

A patient's written consent (minor and adult) using an official DSHS registry consent form is required for inclusion of all data in the registry, except in the event of a publicly declared disaster. Written consent must be given by a parent or legal custodian if a patient is younger than 18 years of age. Official ImmTrac2 Consent Forms are available on our [Department of State Health Services \(DSHS\) website](#):

**TXY** = ImmTrac2 Minor Consent (Age 0-18)

**TXA** = ImmTrac2 Adult Consent (Age 18+)

**TXD** = ImmTrac2 Disaster Retention Information Consent (All Ages)

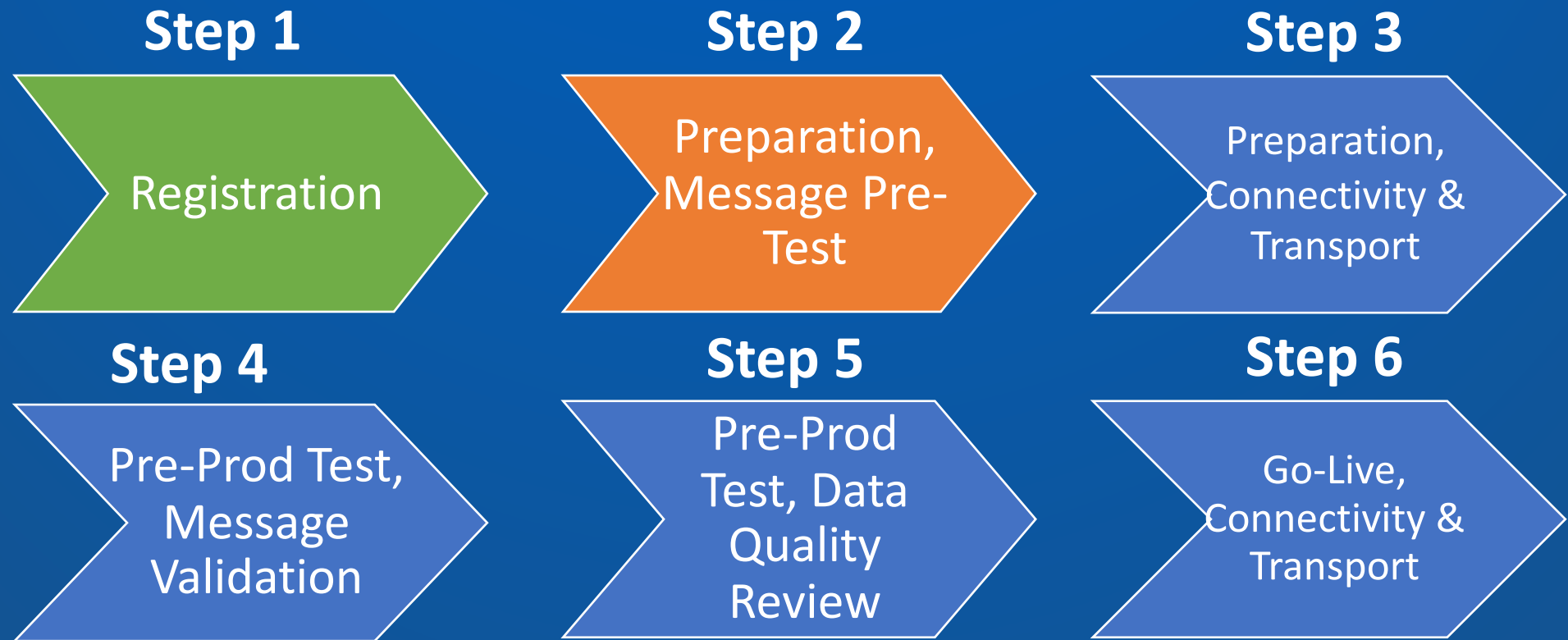


# Consent Mode (3 of 3)

- The signed registry consent form must be archived with the provider's office and in the patients' medical records after your organization has reported the registry consent to ImmTrac2 via one of the below methods.
  - Do **NOT** send (by fax, mail, or email) the signed registry consent forms to the registry for storage or processing.
- Please review the Texas Immunization [Registry – Consent Overview](#) to understand Texas' unique registry consent legislation and requirements.



# Step 2: Preparation, Message Pre-Testing





# Pre-Testing Overview (1 of 2)

Allows orgs to manually upload test HL7 messages for validation:

- HL7 2.5.1 required
- Validates check for compliance to TX and CDC HL7 standards
- Data is not submitted to ImmTrac2



# Pre-Testing Overview (2 of 2)

To pass, orgs must submit 1 error free of the following:

- Historical VXU
- New VXU
- QBP
  - Click the **Begin** button to start HL7 message pre-testing.

Preparation

### Message Pre-Testing

This phase of the onboarding process checks to see if the HL7 messages generated by the EHR comply with state and federal messaging requirements. Click [Begin](#) to complete the tasks listed below.

HL7 Message Pre-Testing. The requirements and status are displayed below:

|  |  |
|--|--|
| <input type="checkbox"/> VXU MSG Validation: | 0 of 1 Valid Historical MSGs AND 0 of 1 Current MSGS have passed validation. |
| <input type="checkbox"/> QBP MSG Validation: | 0 of 1 Valid Query MSGs have passed validation.                              |

[Begin](#)

# Message Pre-Testing (1 of 10)

To pass pre-testing for VXU messages, your org must submit a valid **historical** immunization and a valid **new** immunization.



Generate a sample HL7 VXU and QBP message from the Electronic Health Record Solution.



**VXU- Validation Status**

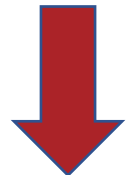
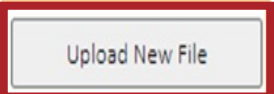
| Description                            | Valid Historical Immunization | Valid Current Immunization |
|--|-------------------------------|----------------------------|
| Total valid messages must be received: | 1                             | 1                          |
| Total valid messages uploaded so far:  | 0                             | 0                          |

**Instructions:**

1. Generate a sample HL7 VXU message from the Electronic Health Record Solution.
2. Click the Upload button and browse for the message file on your computer. (ONLY .hl7 and .txt file types are acceptable)
3. The uploaded file will display at the top of the list of the Validation History below.
4. Click Run Validation.
5. The Status column will update with  for a message that passes or  for a failed message.
6. Click View to see detailed validation results for the file.

**File Validation History**

| #                 | EHR Product/Version | File Type | File Name | Evaluation Date | Status | View Detail |
|-------------------|---------------------|-----------|-----------|-----------------|--------|-------------|
| No Records Found. |                     |           |           |                 |        |             |

# Message Pre-Testing (2 of 10)

Once uploaded, the files are validated and identified with an overall **PASS** or **FAIL**

The file is further broken down to display which areas of the HL7 message need to be corrected

HL7 Message Type\*  
VXU- Unsolicited vaccination record update

File is for EHR- Product- Version\*  
Allscripts- Allscripts ED Version- 7

File is for Provider Site\*  
 Sprout Care Pediatrics

Browse/Choose the file to upload\*  
Choose File no file chosen


The HL7 message uploaded will be changed to protect Patient identifiable information.

| # | EHR Product/Version      | File Type | File Name               | Evaluation Date  | Status | View Detail                                   |
|---|--------------------------|-----------|-------------------------|------------------|--------|---|
| 1 | Allscripts ED Version- 7 | VXU       | TxPerfCurrent072222.hl7 | 01 13 2023 14:14 |        | <input type="button" value="Run Validation"/> |


# Message Pre-Testing (3 of 10)

- The Status column will update with the message results

## Failed


| # | EHR Product/Version      | File Type | File Name               | Evaluation Date  | Status  | View Detail          |
|---|--------------------------|-----------|-------------------------|------------------|---|----------------------|
| 1 | Allscripts ED Version- 7 | VXU       | TxPerfCurrent072222.hl7 | 01 13 2023 14:14 |  | <a href="#">View</a> |

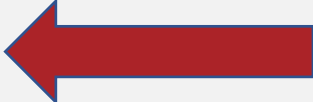
## Passed

| # | EHR Product/Version      | File Type | File Name               | Evaluation Date  | Status  | View Detail          |
|---|--------------------------|-----------|-------------------------|------------------|---|----------------------|
| 1 | Allscripts ED Version- 7 | VXU       | TxPerfCurrent072222.hl7 | 01 13 2023 14:14 |  | <a href="#">View</a> |


# Message Pre-Testing (4 of 10)



Select “**View**” to review detailed validation results for the file

| # | EHR Product/Version      | File Type | File Name               | Evaluation Date  | Status  | View Detail          |
|---|--------------------------|-----------|-------------------------|------------------|---|----------------------|
| 1 | Allscripts ED Version- 7 | VXU       | TxPerfCurrent072222.hl7 | 01 13 2023 14:14 |  | <a href="#">View</a> |



On the following screen, you can select to view the detailed view or the summary view

| #  | Message   | Status  | View Detail          | View Summary         |
|----|---|---|----------------------|----------------------|
| 1. | MSH ^~\& EZEMRX 10 TXImmTrac TxDSHS 20200817052424... |  | <a href="#">View</a> | <a href="#">View</a> |



# Message Pre-Testing (5 of 10)

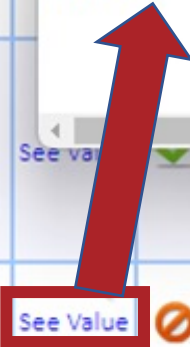
The detailed view allows you to see which segments passed validation, and to see the specific value entered for that field.

|    |     |   |                     |  |           |   |
|----|-----|---|---------------------|--|-----------|---|
| 6. | MSH | 3 | Sending Application | Sending Application, MSH-3, is the instance name of the EHR product where the data originated. Reference HL7 Table 0361  | See Value | ✓ |
| 7. | MSH | 4 | Sending Facility    | MSH-4: Use the TX-IIS ID of the specific (stand-alone, parent, or child) submitting organization must be populated. For multi-site organizations, this is the numeric TX-IIS ID for organization responsible for sending data to ImmTrac2 for all associated administering locations. If the TX IIS ID is not known, contact the Texas Immunization Registry. <b>TX-IIS ID of the parent organization MUST BE numeric,</b> | See Value | ✓ |
| 8. | MSH | 4 | Sending Facility    | MSH-4: Use the TX-IIS ID of the specific (stand-alone, parent, or child) submitting organization must be populated. For multi-site organizations, this is the numeric TX-IIS ID for organization responsible for sending data to ImmTrac2 for all associated administering locations. If the TX IIS ID is not known, contact the Texas Immunization Registry.  | See Value | ✓ |
| 9. | MSH | 4 | TX IIS ID           | MSH-4 MUST be populated with an existing valid TX IIS ID of 9 digits. Marks the field as an error if it does not match the organization TX-IIS ID.   | See Value | ⊘ |

Syntropi - IDx Management Sy...  
:ropiTXUATDX/CRC/Site/viewText.asp?ID= 1241

**View Value**  
Value is: 10

Close



# Message Pre-Testing (6 of 10)

Click the **Export Data** button to download an annotated copy of the message.

**Messages Information**

| #  | Message   | Status | View Detail          | View Summary         |
|----|---|--------|----------------------|----------------------|
| 1. | MSH ^~\& EZEMRX 1122609000 TXImmTrac TxDSHS 202008... |        | <a href="#">View</a> | <a href="#">View</a> |

**Message Detail Validations**

[View Summary](#) [Export Data](#)

The HL7 message submitted has been changed to protect Patient identifiable information.



# Message Pre-Testing (7 of 10)

The summary view gives a high-level view of the message's status broken down into errors and warnings. Passing segments are not

Select **“Close”** to return and upload more messages.


| Errors                               |         |            |  |  |  |
|--------------------------------------|---------|------------|--|--|--|
| #                                    | Segment | Field Name | Validation                             | Status   |  |
| 1.                                   | OBX     | 5.1        | Observation Value                      | Content validated for the correctness of the HL7 Code set.   |  |
| Value Sent: 108                      |         |            |  |  |  |
| 2.                                   | RXA     | 11.4       | Administered At Location - Facility ID | RXA-11.4 MUST EQUAL MSH-22   |  |
| Value Sent: 10                       |         |            |  |  |  |
| 3.                                   | MSH     | 4          | TX IIS ID                              | MSH-4 MUST be populated with an existing valid TX IIS ID of 9 digits. Marks the field as an error if it does not match the organization TX-IIS ID. |  |
| Value Sent: 10                       |         |            |  |  |  |
| Warnings                             |         |            |  |  |  |
| #                                    | Segment | Field Name | Validation                             | Status   |  |
| 1.                                   | PID     | 24         | Multiple Birth Indicator               | PID-24 Multiple Birth Indicator is option, but every effort should be taken to populated for the patient.  |  |
| Value Sent:                          |         |            |  |  |  |
| <input type="button" value="Close"/> |         |            |  |  |  |



# Message Pre-Testing (8 of 10)

To pass pre-testing for QBP messages, your org must submit a valid query message

File Validation History Upload New File

| # | EHR Product/Version      | File Type | File Name               | Evaluation Date  | Status  | View Detail          |
|---|--------------------------|-----------|-------------------------|------------------|---|----------------------|
| 1 | Allscripts ED Version- 7 | VXU       | TxPerfCurrent072222.hl7 | 01 13 2023 14:14 |  | <a href="#">View</a> |

# Message Pre-Testing (9 of 10)

Change the message type  
from **VXU** to **QBP**

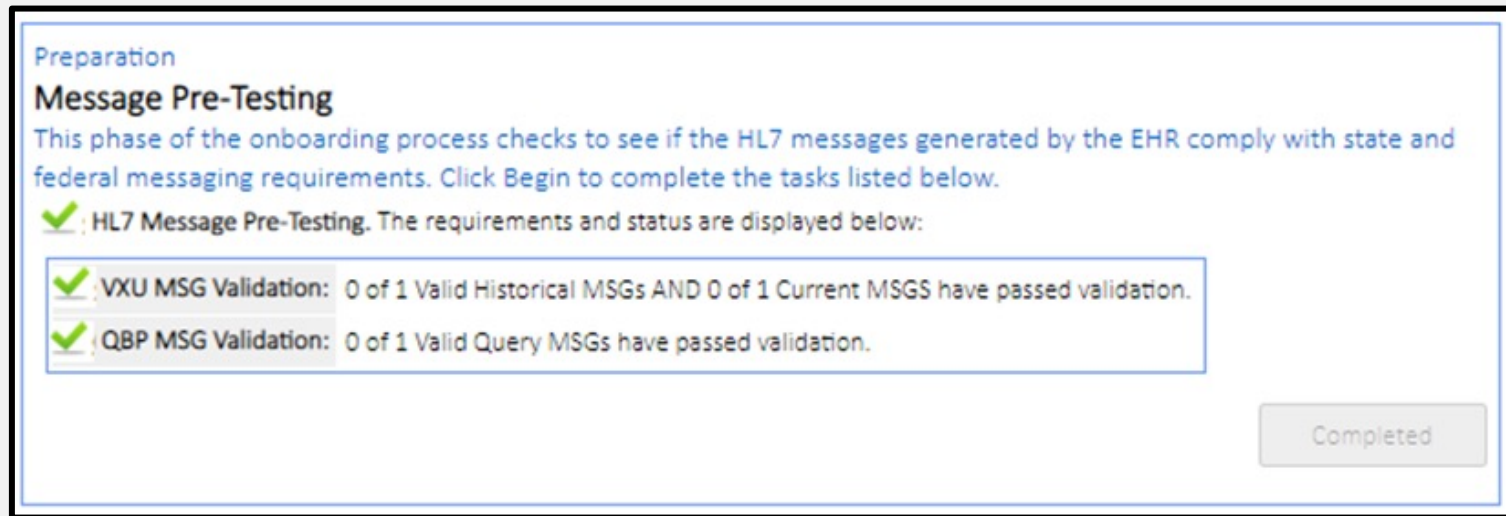
Select “**Choose File**” and  
upload the QBP message to  
test

**Note:** The options to view  
detailed or summary  
information about the  
validation work the same way  
as for VXU messages.

The screenshot shows a web form for selecting an HL7 message type. The title is "HL7 Message Type\*". Below it is a dropdown menu with the following options: "VXU- Unsolicited vaccination record update", "QBP- Requesting Information Immunization History HL7 2.5.1" (highlighted in blue), and "Allscripts- Allscripts ED Version- 7". A red arrow points to the "QBP" option. Below the dropdown is a section titled "File is for Provider Site\*" with a radio button selected for "Sprout Care Pediatrics". At the bottom, there is a section titled "Browse/Choose the file to upload\*" with a "Choose File" button (highlighted in red) and a "No file chosen" label. To the right of this section is an "UPLOAD FILE" button.

# Message Pre-Testing (10 of 10)

Once both message type requirements are passed, proceed to the next onboarding step.

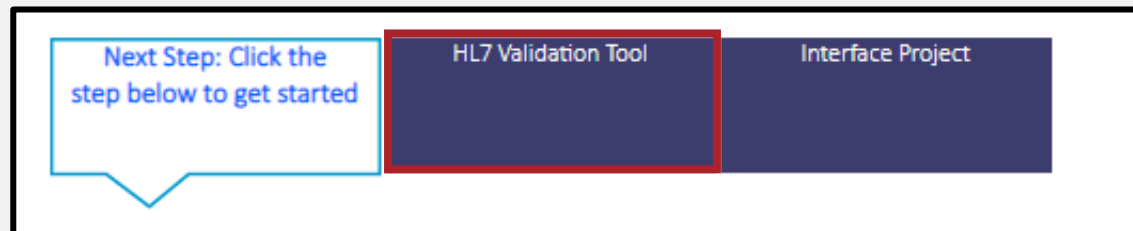


Preparation  
**Message Pre-Testing**  
This phase of the onboarding process checks to see if the HL7 messages generated by the EHR comply with state and federal messaging requirements. Click Begin to complete the tasks listed below.

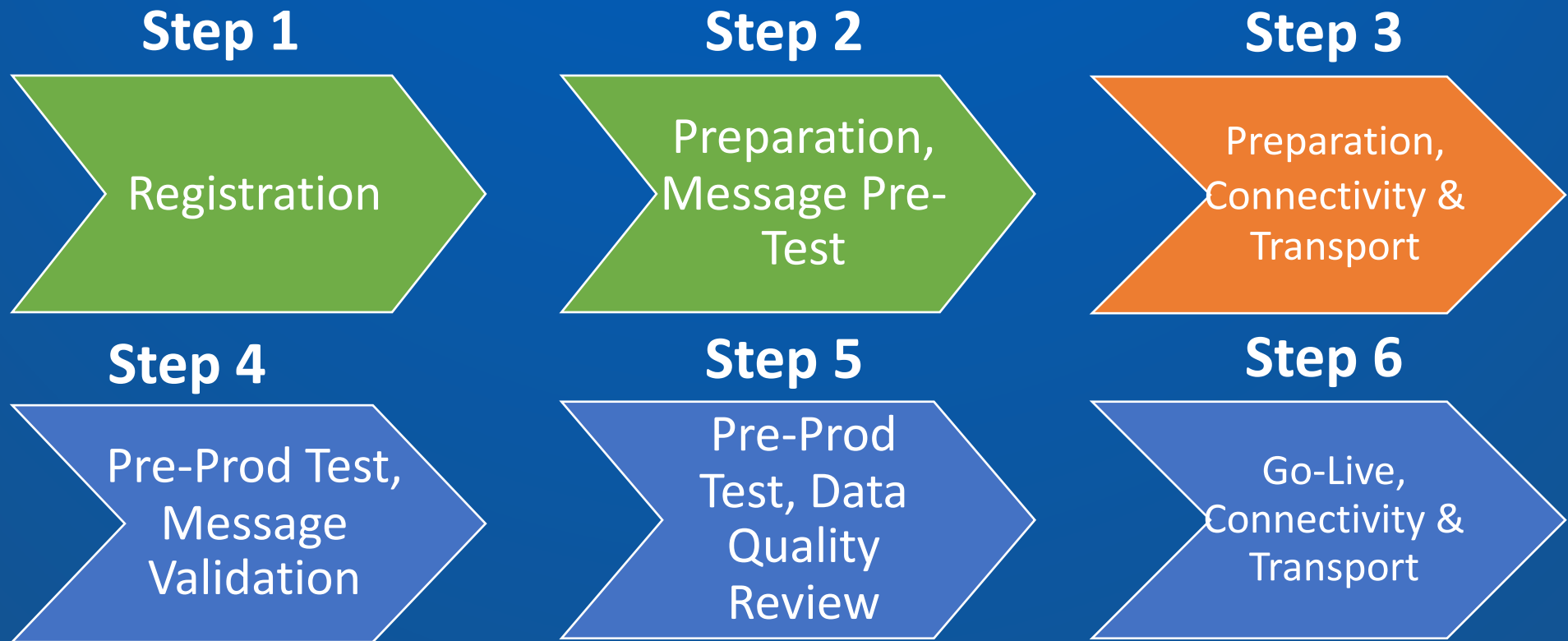
✓ : HL7 Message Pre-Testing. The requirements and status are displayed below:

|                       |  |
|-----------------------|--|
| ✓ VXU MSG Validation: | 0 of 1 Valid Historical MSGs AND 0 of 1 Current MSGs have passed validation. |
| ✓ QBP MSG Validation: | 0 of 1 Valid Query MSGs have passed validation.                              |

Completed



# Step 3: Preparation, Connectivity & Transport



# Prep Connectivity & Transport (1 of 3)


- Select “**Begin**” button to start

Preparation

## Connectivity & Transport



This phase of the onboarding process establishes a connection from the EHR to ImmTrac2 Test. Click Begin to complete the tasks listed below.

- ⊗ Download the WSDL to connect to the ImmTrac2 Test Environment
- ⊗ Establish the Test Interface: Install the WSDL in your EHR to establish transport with ImmTrac2 Test
- ⊗ Validate Connectivity with the ImmTrac2 Test Environment and your EHR

 Begin

## Prep Connectivity & Transport (2 of 3)

Select the link to download the Test WSDL file to set up your test connection to the ImmTrac2 Test environment.

-  Step 1: Download the WSDL to establish the interface with ImmTrac2 Test.
- Instructions:
    1. Click the link below to download the WSDL. It is pre-populated with the username and password to authenticate with ImmTrac2 Test. [Download Test WSDL](#) 
    2. Configure your Electronic Health Record server with the downloaded Test WSDL.
  - This step will be marked passed upon download of the WSDL.

# Prep Connectivity & Transport (3 of 3)

To establish a test interface, configure your EHR with the WSDL settings, then begin submitting HL7 test messages

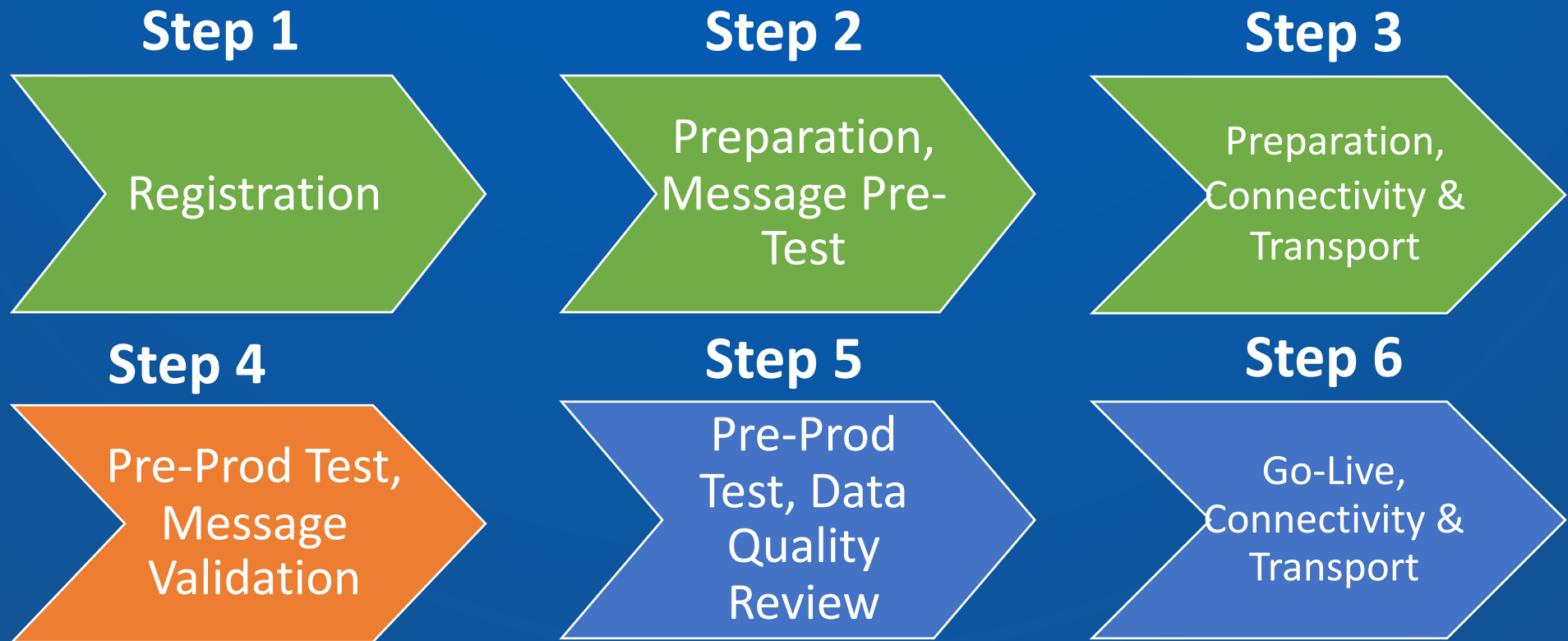
Credentials include:

- Username (Import Code)
- Facility ID (Org Code)
- Password





# Step 4: Pre-Production Testing, Message Validation



# Pre-Production Testing (1 of 2)

Download the VXU Test Cases document

Complete the Test Cases form

Once completed select **Choose File** then the **Upload** option to submit the document

Pre-Production Testing  
Message Validation  
This phase of the onboarding process ensures messaging generated across the interface to the ImmTrac2 Test System maintains the configuration and compliance and are consumable by ImmTrac2.

VXU MSG Validation: Successful VXU Message Count (AA Acknowledgements): Rate: %

There are two (2) steps to complete for VXU message validation.

1. Achieve a 90% success rate for VXU messages received by ImmTrac2 Test.  
*The rate is calculated automatically and will provide detailed message analysis to determine what needs to be corrected to meet the 90% pass rate requirement.*
2. Complete the VXU Test Cases for submitting updates to ImmTrac2.
  - Download VXU Test Cases. [Download VXU Test Cases](#)
  - Upload the VXU Test Results.  No file chosen

QBP MSG Validation: Use the test cases files below to query Immtrac2 Test

*To validate Query/Response Messaging correct your QPB query messaging based on the RSP received compared to what is in expected in the case.*

1. Complete the QBP Test Cases for submitting updates to ImmTrac2.
  - Download QBP Test Cases. [Download QBP Test Cases](#)
  - Upload the QBP Test Results.  No file chosen



# Pre-Production Testing (2 of 2)

- Identify if test messages **PASS** or **FAIL** based on ACK response
- Org must meet a 90% success rate to **PASS**
- Review ACK response in EHR interface.

## Pre-Production: Message Validation

### Step 1: Submit HL7 Messages to Immtrac2 Test environment

- Instructions:

1. Continue submitting HL7 Test Messages to Immtrac2 Test.
  2. Monitor ACK messages received from Immtrac2 Test and correct any issues to increase your pass rate until it meets the required % pass rate.
  3. Test your Query Messaging. Click the link to download Immtrac2 Test cases for query/response (QBP/RSP) messaging. [Download Query Test Cases.](#)
  4. If your testing Query/Response Messaging correct your QBP query messaging based on the RSP received compared to what is expected in the test case.
- The system will monitor messages received and calculate the message pass rate for Updates (VXU messages) sent to Immtrac2 Test. Statuses are displayed below:

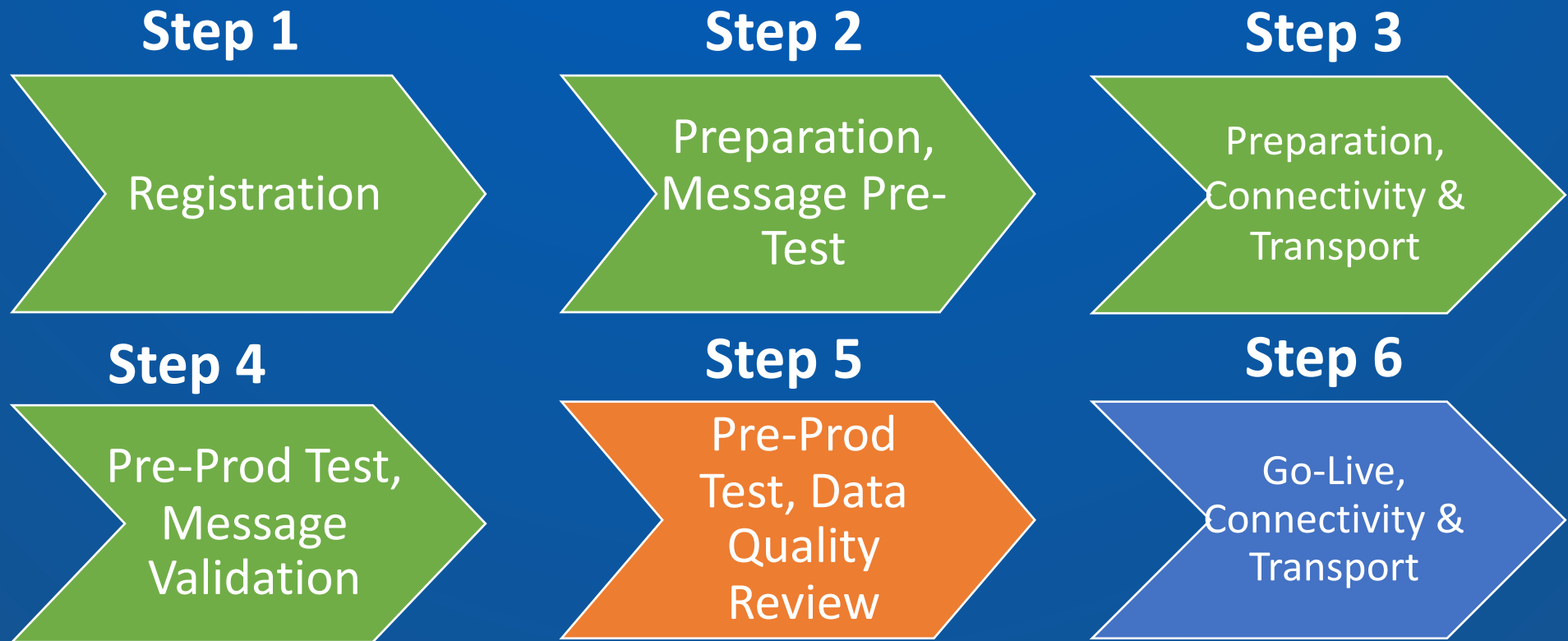
### Message Validation Summary

Connected to Test      # MSG's Rec'd:      Last Submit Date:      # Min Req Met:

| VXU Validation Summary |         |                     |               |
|------------------------|---------|---------------------|---------------|
| # AA:                  | # AE-W: | # Min Req to Pass%: | Current Rate: |
| # AE-E:                | # AR:   | # RSP:              |               |



# Step 5: Pre-Production Testing, Data Quality Review



# Review Corrections Needed

- Review the quality of your message stream.
- To begin, select the **Review Data Quality Corrections Needed** button.

Pre-Production Testing  
Data Quality Review  
This phase of the onboarding process ensures the data being sent to ImmTrac2 is complete and accurate information pertaining to the patient and immunization records. A 90% Data Qualifying Rate is required to pass this phase. Click on the Review Data Quality Corrections Needed button below to see issues to fix in order to meet the

Data Quality Rate: Achieve a 90% success rate to pass

| Calculated Metrics  | Calculated Data Quality Rate |
|---|------------------------------|
| <input type="checkbox"/> Patient Demographic Completeness | 0%                           |
| <input type="checkbox"/> Immunization Completeness        |                              |
| <input type="checkbox"/> Immunization Accuracy            |                              |













[Review Data Quality Corrections Needed](#)



# Messages Sent

**Messages:** a list of the messages sent.

## Pre-Production: Data Quality Review

| Messages |   | Immunization Report | Patient Report | VFC Report       | Quality Summary  |                      |
|----------|---|---------------------|----------------|------------------|--|----------------------|
| #        | Result  | Control ID          | Message Type   | Received         | Validation Summary   | View Message         |
| 1        |   | 2041M2727599        | VXU: Non-Hx    | 03 06 2023 20:28 |  0 Valid  12 Errors  2 Warnings    | <a href="#">View</a> |
| 2        |  | 2038M2727599        | VXU: Non-Hx    | 03 06 2023 20:26 |  0 Valid  23 Errors  6 Warnings | <a href="#">View</a> |
| 3        |  | 2037M2727599        | VXU: Non-Hx    | 03 06 2023 20:25 |  0 Valid  11 Errors  2 Warnings | <a href="#">View</a> |

# Immunization Report (1 of 2)





**Immunization Report:** Completeness for immunizations given.

Pre-Production: Data Quality Review

Messages **Immunization Report** Patient Report VFC Report Quality Summary

Reporting Period From  /  /  To:  /  /

Completeness

| Field                  | % Required To Pass Completeness | Current % of Completeness | Pass/Fail   |
|------------------------|---------------------------------|---------------------------|---|
| Action Code Set        | 90%                             | 33.33%                    |  |
| Administering Provider | 90%                             | 33.33%                    |  |
| Administration Site    | 95%                             | 33.33%                    |  |
| Dosage- Completeness   | 95%                             | 100.00%                   |  |



# Immunization Report (2 of 2)

**Immunization Report:** Accuracy for immunizations given.

| Accuracy                    |   |                      |
|-----------------------------|---|----------------------|
| Field                       | Description   | Issue Accuracy Score |
| Administered Date After DOB | Administered Date is after patient's DOB as expected                                    | 100.00%              |
| Administration Route        | Administration Route, RXR-1, is Required and Populated                                  | 33.33%               |
| Age Range                   | Percentage of Records submitted where the vaccine is given within recommended age range | 33.33%               |
| Body Site                   | Body site is valid.   | 33.33%               |
| Dosage- Accuracy            | Validates that the administered dosage matches the accepted amount.                     | 33.33%               |
| Licensure Date              | Vaccination administered within vaccine's licensure start and end dates                 | 33.33%               |
| Lot ID- Accuracy            | Substance Lot Number is contains a valid lot number format for manufacturer.            | 0.00%                |



# Patient Report

**Patient Report:** completeness for patient data.

Pre-Production: Data Quality Review

Messages   Immunization Report   **Patient Report**   VFC Report   Quality Summary

Reporting Period From 02 / 06 / 2023 To: 03 / 08 / 2023   Run Report

Completeness

| Field                  | % Required To Pass Completeness | Current % of Completeness | Pass/Fail |
|------------------------|---------------------------------|---------------------------|-----------|
| Address                | 100%                            | 100.00%                   | ✓         |
| Mother/Father/Guardian | 90%                             | 100.00%                   | ✓         |
| Patient Name           | 100%                            | 100.00%                   | ✓         |
| Phone Number           | 95%                             | 0.00%                     | ✗         |



# VFC Report

## VFC Report: tallies by eligibility category

### Pre-Production: Data Quality Review

| Messages | Immunization Report | Patient Report | VFC Report | Quality Summary |
|----------|---------------------|----------------|------------|-----------------|
|----------|---------------------|----------------|------------|-----------------|

| VFC Eligibility                      | Count | Percentage |
|--------------------------------------|-------|------------|
| Adult, No Insurance                  | 0     | 0.00%      |
| Adult, Private Pay/Insurance         | 3     | 60.00%     |
| Adult, Underinsured                  | 0     | 0.00%      |
| American Indian/Alaskan Native       | 0     | 0.00%      |
| CHIP                                 | 0     | 0.00%      |
| Medicaid                             | 0     | 0.00%      |
| No Insurance                         | 0     | 0.00%      |
| Private Pay/Insurance                | 2     | 40.00%     |
| Underinsured, FQHC/RHC/Deputized     | 0     | 0.00%      |
| Underinsured, Not FQHC/RHC/Deputized | 0     | 0.00%      |

The VFC Report indicates counts of patients eligible for VFC (Vaccines for Children) by VFC Eligibility Category for a given date range.

2/6/2023 to 3/8/2023

| Category                     | Count | Percentage |
|------------------------------|-------|------------|
| Adult, Private Pay/Insurance | 3     | 60.00%     |
| Private Pay/Insurance        | 2     | 40.00%     |



# Data Quality Summary (1 of 2)

**Quality Summary:** overall message quality trends.

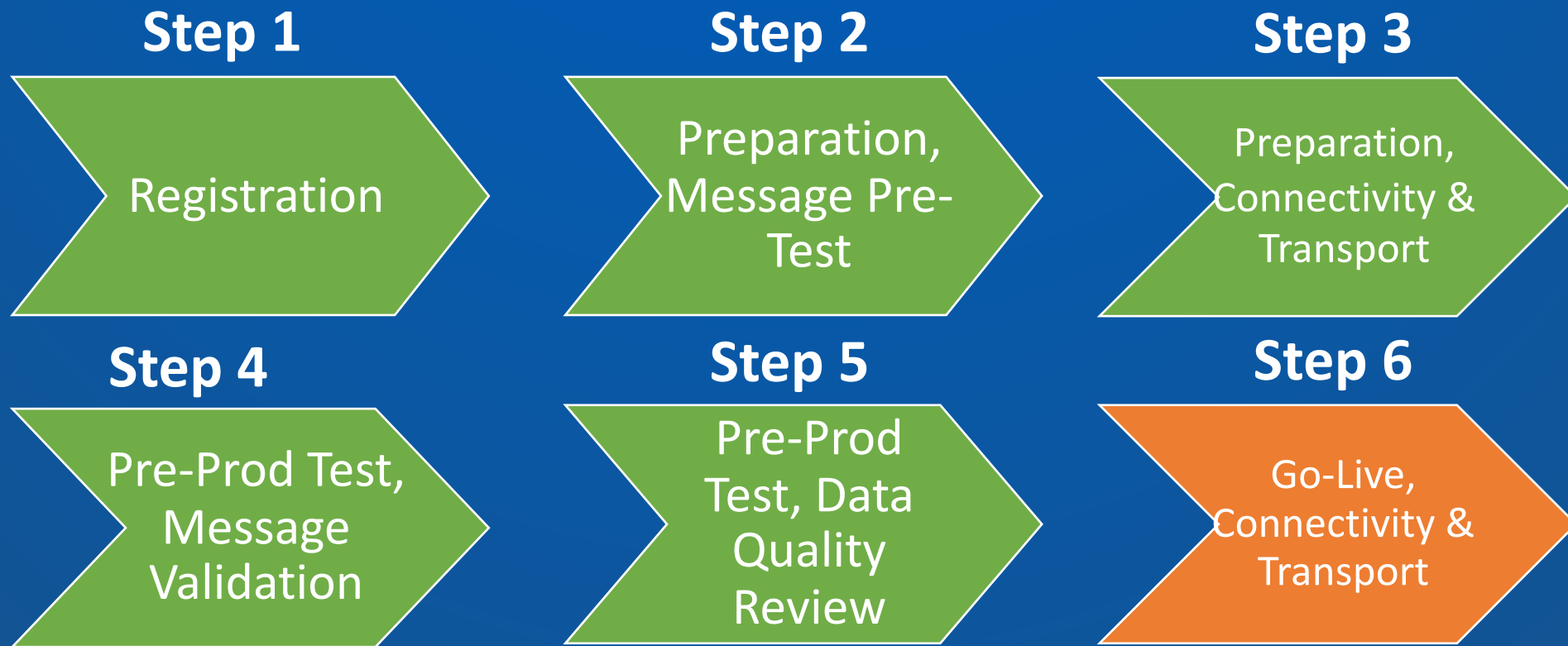
| Pre-Production: Data Quality Review   |                     |  |  |                 |
|---|---------------------|--|--|-----------------|
| Messages  | Immunization Report | Patient Report   | VFC Report   | Quality Summary |
| Report Date: 03/08/2023<br>Report Created by:<br>Reporting Period: 1/1/2019 to 3/8/2023 |                     | Total Number of Patients Reported: 15<br>Total Number of Administered Shots Reported (VXU): 15<br>Total Number of Historical Shots Reported (VXU): 0<br>Total Number of Queries Submitted (QBP): 0 | Total Number of Errors: 15<br>Total Number of Warnings: 0<br>Total Number of Rejections: 0<br>Average Timeliness for Period: 0 |                 |

# Data Quality Summary (2 of 2)

- Testing focused on data quality metrics:
  - Patient completeness.
  - Immunization completeness.
  - Immunization Accuracy.
- Organizations must:
  - Submit test messages.
  - Review for gaps in completeness and accuracy.
  - Meet a 90% pass rate.



# Step 6: Go Live, Connectivity & Transport



# Go Live (1 of 3)

Allows org to:

- Connect with the registry's Interoperability Team for a go live meeting
- Download production web service credentials
- Connect to registry's production environment

## Go Live

### Connectivity & Transport

In this phase of the onboarding process the data submission from the EHR will be transitioned from sending data to the ImmTrac2 Test System to the ImmTrac2 Production System.

- Go Live- Not Started.
- Download ImmTrac2 Production WSDL
- Production Interface Validation

Previous Phase Must be Completed

# Go Live (2 of 3)

Go live meeting will include:

- Org, DX Contacts, IT Support, registry's Interoperability Team and EHR vendor
- Discussions on anticipated go-live date
- Addressing any outstanding questions from Org

# Go Live (3 of 3)

Onboarded organizations will:

- Download and share production WSDL and credentials with EHR vendor to establish an interface
- Establish a successful connection to ImmTrac2 production environment
- Initiate formal submission of patient and immunization data
- Submit real patient and immunization HL7 messages to ImmTrac2 production environment





# Data Exchange Resources

Support is available.



# Live Support

## Interoperability Team

- Phone: 800-348-9158, Option 3
- Email: [ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov)
- Hours: Monday – Friday, 8:00 a.m. to 4:30 p.m.



# Forms & Documents

- Available on <https://www.dshs.texas.gov/immunization-unit/immtrac2-texas-immunization-registry/immtrac2-forms-documents>
- Texas Immunization Registry HL7 2.5.1 Implementation Guide ( Stock # 11-14972)
- Texas Immunization Registry HL7 2.5.1 Error Guide (Stock # 11-15703)
- Affirmation of Registry Consent via Health Level Seven (Stock # 11-15773)





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**Thank You!**

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*From the Texas Immunization Registry*