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**TEXAS**  
Health and Human  
Services

**Texas Department of State  
Health Services**

# Introductions

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# Batch Data Exchange Testing

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Texas Immunization Registry

# Overview

- What is Batch Data Exchange Testing?
- Requirements of Data Exchange Testing
- Registry Consent
- Sending Test Files
- Reviewing Data Quality Reports
- Completing Testing

# What is Batch Data Exchange Testing? (1 of 2)

- Testing prepares your organization to add live patient data to the registry.
- Testing allows you to:
  - Ensure your connection works correctly
  - Identify and resolve any issues
  - Familiarize yourself with new processes
  - Identify training needs for your staff



# What is Batch Data Exchange Testing? (2 of 2)

During testing you will:

- Use your new data exchange account
- Send immunization test files
- Review registry data quality reports
- Correct data quality or technical issues
- Work with your support teams



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# Testing Objective

## Send data containing no errors.

- ✓ Testing is completed once this is achieved.
- Testing will continue until the objective is met.





# Testing Requirements

- Your EHR must be capable of sending test files using Health Level Seven (HL7) version 2.5.1.
- Submit an aggregated test file at least every 30 days
- Must be representation of your patient population



# Sending Test Files

- Coordinate with your EHR vendor to create and send Test files.
- Instructions for uploading files directly via the FTP website can be found in the *Electronic Data Exchange Resource Guide*.
- Become familiar with the FTP website



# Registry Consent

## (1 of 2)

- Registry consent must be added before the registry can accept immunization records
  - This is the most common reason records are rejected
- Continue adding registry consent and immunizations via the ImmTrac2 website during testing
- Registry consent can be sent via data exchange, but this process requires additional setup and testing.



# Registry Consent

(2 of 2)

- Setting up consent via data exchange may include additional costs from your EHR vendor.
- It is your organization's responsibility to be aware of how consent is being added to the registry for your patients and to ensure it is being done appropriately.



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# File Processing Overview

## (1 of 4)

- Within 24 hours of uploading a test file, the registry sends an acknowledgment email.
  - This email does NOT mean that the file was processed successfully.
  - Acknowledgment emails may be used to demonstrate participation in Promoting Interoperability.



# File Processing Overview

## (2 of 4)

- Test files process within 5 business days of delivery.
- The registry returns the following files to the FTP website:
  - **DQA report** – Error reports for individual messages within your test file. Located in the *DQA-Reports* folder.



# File Processing Overview

## (3 of 4)

- **CNF** – Registry consent status of each patient within your test file. Located in the *Receive* folder.
- **Response** – An HL7 coded version of the DQA report.
- You will NOT receive an email notification when test files finish processing.



# File Processing Overview

## (4 of 4)

- Certain errors will result in the rejection of the test file
  - A second email will be sent to notify you of these error.
- Rejected files are found in the *Accepted* folder with .invalid added to the end of the file name.





# Reviewing Data Quality Reports

## (1 of 8)

- At least once per week, a user from your organization should access the FTP website to download and review any new DQA reports.
- DQAs should be opened using an advanced text editor such as *'Notepad++'* or *'Programmer's File Editor'* (PFE).



# Reviewing Data Quality Reports

## (2 of 8)

- DQA reports use the following structure:
  - HL7 Message
  - Rejection errors for that message
  - Informational Errors for that message
- Errors have a code followed by a short description
  - Example: CLR-100::Client Rejected. No existing consent on file



# Reviewing Data Quality Reports

## (3 of 8)

- An HL7 message contains one client's (patient's) information and any immunizations your organization reported.
  - Each test file can have multiple HL7 messages.
  - The patient's name is in the PID line
  - Information about the order is in line ORC
  - The immunization is in line RXA



# Reviewing Data Quality Reports

## (4 of 8)

- Client record rejection errors are listed first after the HL7 message.
  - These are 'CLR' errors
  - For example: Missing demographics, such as the client's name or address
  - Client rejection errors prevent any of that patient's records from being accepted



# Reviewing Data Quality Reports

## (5 of 8)

- Immunization rejection errors are listed next.
  - These are 'IMR' errors.
  - For example: Missing manufacturer information for new immunizations
  - Immunization rejection errors prevent that immunization from being accepted



# Reviewing Data Quality Reports

## (6 of 8)

- Any non-critical data quality errors (called Informational Errors) are listed last.
  - These are 'IEE' errors
  - Most Informational errors are related to problems with HL7 formatting
  - Must still be addressed to improve data quality



# Reviewing Data Quality Reports

## (7 of 8)

- **ALL** errors must be corrected during testing.
- Check the *HL7 Error Guide*
- Contact your EHR vendor to correct most errors.
- Contact the registry for additional assistance.



# Reviewing Data Quality Reports

## (8 of 8)

- Not all errors can be corrected by the EHR vendor or the registry.
- Some errors require adjustments to documentation workflows.
- Continue submitting test files and reviewing DQA reports until all error have been corrected.





# Completing Testing

## (1 of 2)

- To complete testing:
  - Submit three to five consecutive test files that return no errors in the DQA report.
  - Contact the registry to request promotion to production.



# Completing Testing

## (2 of 2)

- Successfully Completed Testing!
- The registry promotes your organization's data exchange account to production
- Contact your EHR vendor and inform them that your data exchange account is now in production.



# TIPS Report

- Testing may show on TIPS report
- Disregard the Data Exchange Activity for testing period



# Resources: Trainings

- In-person training
- [Online training videos](#)

# Resources: Guides

- [Electronic Data Exchange Resource Guide](#) (11-15231)
- [Data Quality Guide](#) (11-15232)
- Texas Immunization Registry HL7 2.5.1 Error Guide 03\_2020 (11-15703)

# Resources: Live Support



- Monday through Friday
- 8:00 a.m.– 4:30 p.m., CT

# Contact Information: Websites

## ImmTrac2 Website

- <https://immtrac.dshs.texas.gov/TXPRD/portalInfoManager.do>

## DSHS Texas Immunization Registry Website

- <https://www.dshs.texas.gov/immunize/immtrac/>

# Contact Information: Customer Support Line

- Phone: 800-348-9158,
  - Option 1 – Help for the general public (immunization records, etc.)
  - Option 2 – ImmTrac2 user support
  - Option 3 – Data exchange or the Interoperability Team
  - Option 4 – Registrations and Renewals



# Contact Information: Emails

- [ImmTrac2@dshs.texas.gov](mailto:ImmTrac2@dshs.texas.gov)
  - Site agreements, renewals, ImmTrac2 user changes, registry trainings or publications
- [ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov)
  - Data exchange related questions, promoting interoperability, data quality reports

# Thank you!

Data Exchange Testing  
Texas Immunization Registry

# Q & A

[ImmTrac2@dshs.texas.gov](mailto:ImmTrac2@dshs.texas.gov)

Access, site registrations or renewals, etc.

[ImmTracMU@dshs.texas.gov](mailto:ImmTracMU@dshs.texas.gov)

Data exchange and promoting interoperability