# Purpose

- **Faster -** Higher frequency of immunization data

- **More reliable data –** Data received in industry standard HL7 version

- **Automated** – no manual intervention of data

# Value - A Win for All Stakeholders

**Members/Clients -** Improved access to data informs health care management efforts and strategic decisions

**Patients** - Enhanced data sharing helps make the healthcare system work more efficiently and cost-effective for patients

**Providers** - Expanding and improving data exchange capabilities will better support providers operationally and in their delivery of care to patients

**BCBSTX** - Improved access to clinical data helps us monitor network performance, care quality, health costs, and care coordination programs for members

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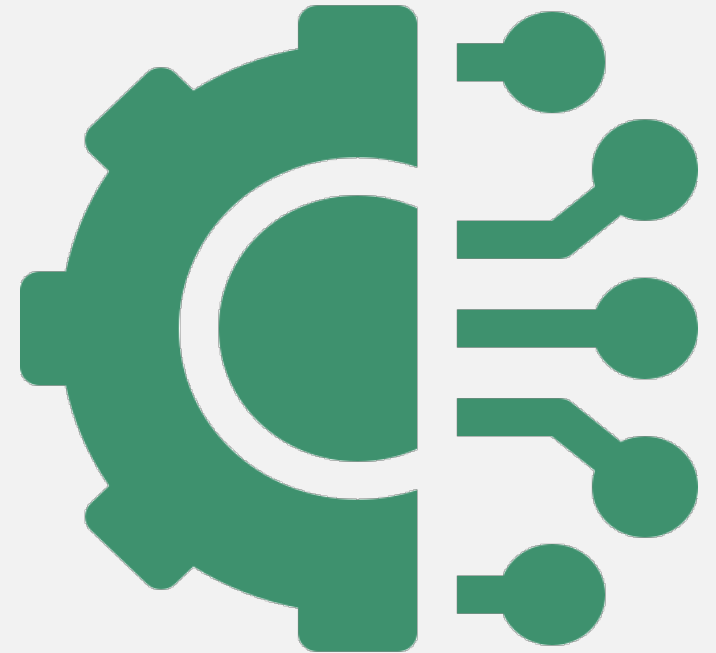
Texas Department of State
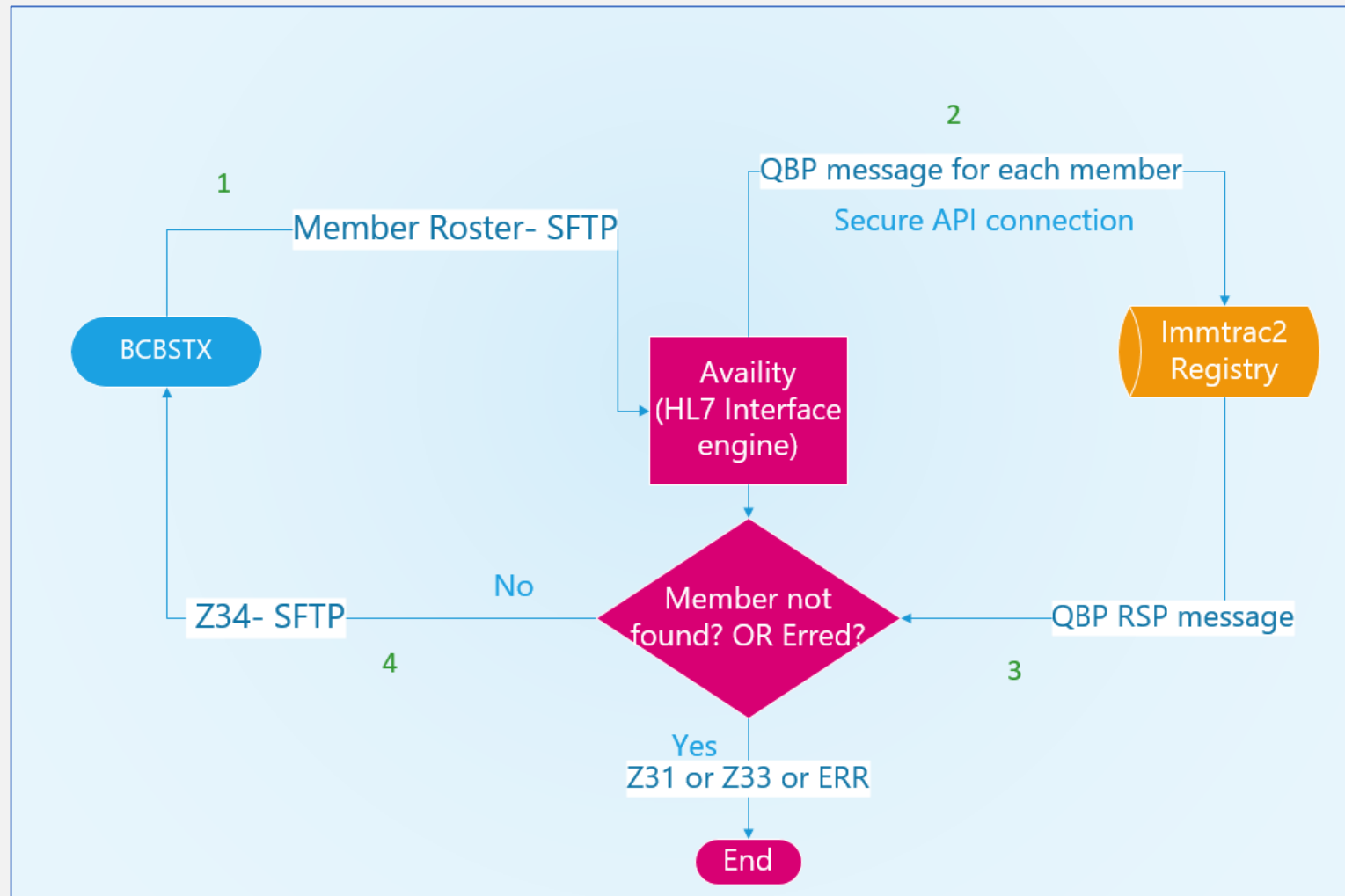Health Services

# Partnership

# Direct Connections

Availity, through its clinical gateway, sends clinical data to health plans to support better member outcomes via direct connections with:

- Immunization Registries

- Health Systems

- Laboratories

- Health Information Exchanges

# Data Flow Process

# Required Resources

**BCBSTX**
- Project Manager
- Business Analyst/Data Analyst
- QA Resources
- Product owner
- Business Stakeholders
- Data Engineers

**Availity**
- HL7 Interface developers
- Application Architect
- Clinical Connectivity Product Owner

# Timeline

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|---|---|---|---|---|---|
| Member Roster | Decisions | ⬙ Sample File for TX | | | |
| Availity | | Planning/Build/Testing | | ⬙ Production TX Immunization File(s) Provided to BCBSTX | |
| BCBSTX Ingestion Dev | | Development/ Test | | | |
| E2E & UAT & Regression Testing | | TX E2E Files from Availity | ⬙ Testing | | |
| Go-Live Activities | | | | Deploy & verification | |

# Timeline – Membership Generation

Blue Cross and Blue Shield of Texas:

- Reviewed the ImmTrac2 Implementation Guide
- Created a membership roster
- Shared membership roster with Availity

## Timeline

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|---|---|---|---|---|---|
| Member Roster | Decisions | | Sample File for TX | | |
| Availity | | Planning/Build/Testing | | Production TX Immunization File(s) Provided to BCBSTX | |
| BCBSTX Ingestion Dev | | Development/ Test | | | |
| E2E & UAT & Regression Testing | | NM & TX E2E Files from Availity | Testing | | |
| Go-Live Activities | | | | Deploy & verification | |

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# Timeline – Establishing Connectivity

## Availity

- Established a connection with ImmTrac2 test environment.

- Completed testing with scenarios and test patient information provided by Immtrac2.

### Timeline

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|---|---|---|---|---|---|
| Member Roster | Decisions | ✹ Sample File for TX | | ✹ | |
| Availity | | Planning/Build/Testing | | Production TX Immunization File(s) Provided to BCBSTX | |
| BCBSTX Ingestion Dev | Development/ Test | | | | |
| E2E & UAT & Regression Testing | | NM & TX E2E Files from Availity ✹ | Testing | | |
| Go-Live Activities | | | | Deploy & verification | |

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# Testing Scenarios Overview

Bi-directional testing is performed in phases and is required before connectivity in production environment:
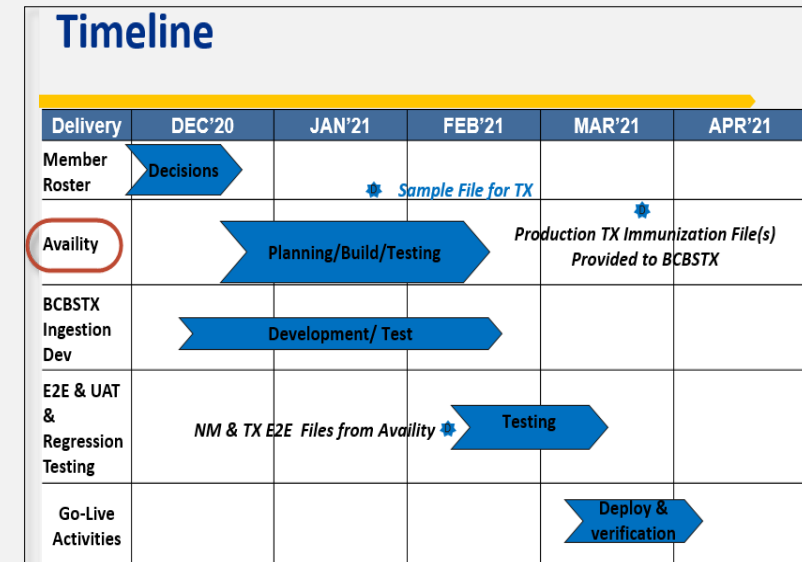
- **Phase 1:** Connectivity test to the ImmTrac2 Training Web Service
- **Phase 2:** Perform query tests - immunization history request.
  - Query for a child
  - Query for an adult
  - Query for a patient not in the registry
  - Query for a patient which returns multiple patients
- **Phase 3:** Connectivity test to the ImmTrac2 Production Web Service

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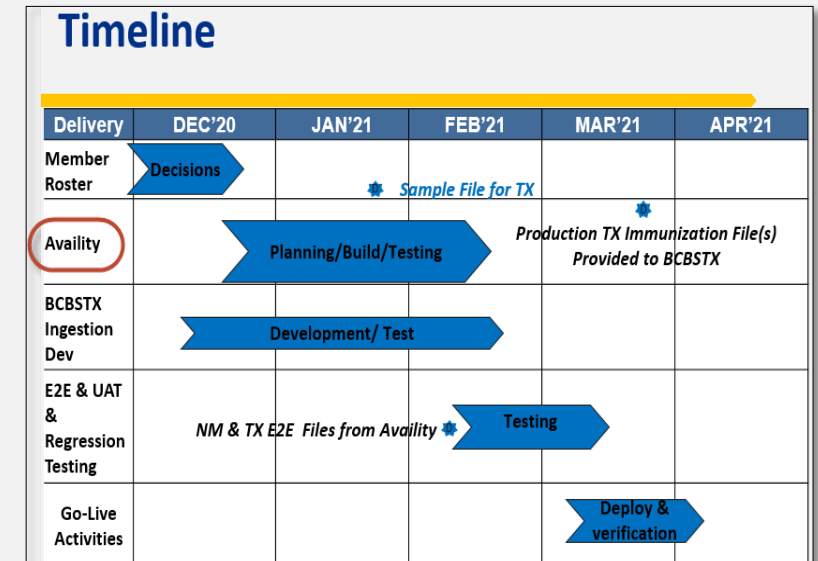
# Timeline - Membership Generation

## Availity

- Queried the Texas State Immunization Registry using small files through QBP messages to check load capacity of the state's systems.

- Tested the capacity of the ImmTrac system, querying more members



**Timeline**

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|---|---|---|---|---|---|
| Member Roster | Decisions | | *Sample File for TX* | | |
| Availity | | Planning/Build/Testing | | Production TX Immunization File(s) Provided to BCBSTX | |
| BCBSTX Ingestion Dev | | Development/ Test | | | |
| E2E & UAT & Regression Testing | | NM & TX E2E Files from Availity | Testing | | |
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# Timeline - Immunization Data Returned

Blue Cross and Blue Shield of Texas received only all exact* matches Z34 VXU responses compiled in one file from Availity after all the member data has been queried
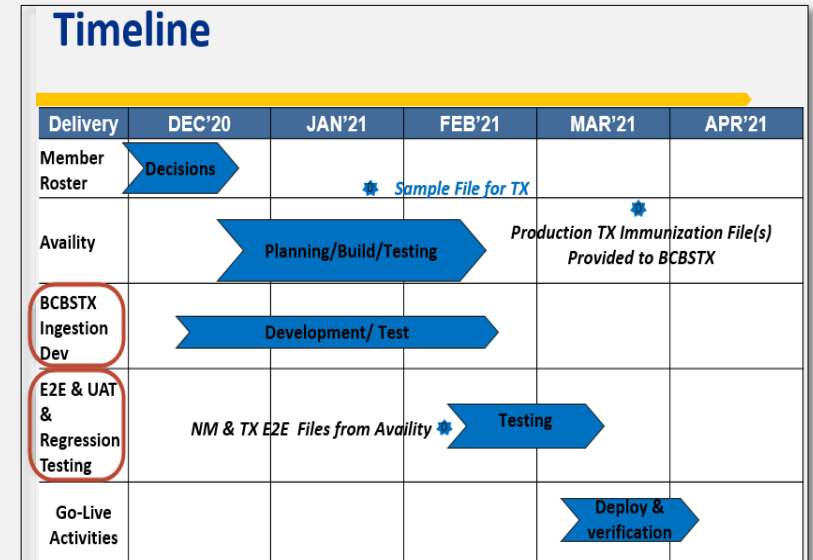


## Timeline

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|----------|--------|--------|--------|--------|--------|
| Member Roster | Decisions | *Sample File for TX* | | | |
| Availity | | Planning/Build/Testing | | *Production TX Immunization File(s) Provided to BCBSTX* | |
| BCBSTX Ingestion Dev | Development/ Test | | | | |
| E2E & UAT & Regression Testing | *NM & TX E2E Files from Availity* | | Testing | | |
| Go-Live Activities | | | | Deploy & verification | |

* Exact matches are set when the RCP-2 segment is set to a value of '1' to avoid violating PHI rules
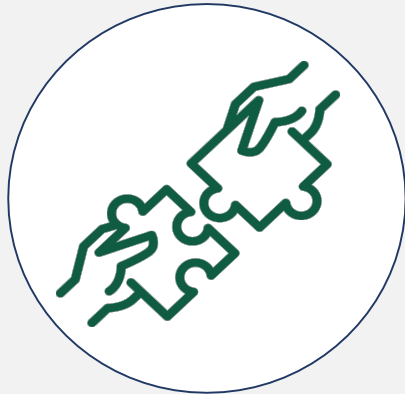
# Timeline - Internal Development & Testing

- Development for data ingestion and consumption

- End-to-End (E2E) testing and User Acceptance Testing (UAT) data verification
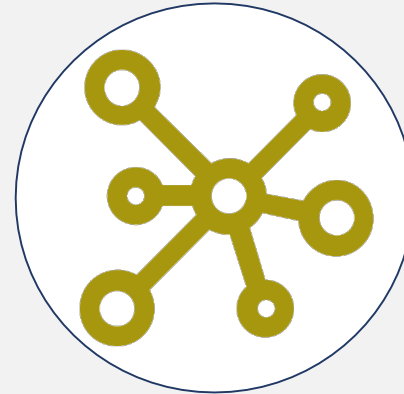


**Timeline**

| Delivery | DEC'20 | JAN'21 | FEB'21 | MAR'21 | APR'21 |
|---|---|---|---|---|---|
| Member Roster | Decisions | | *Sample File for TX* | | |
| Availity | | Planning/Build/Testing | | *Production TX Immunization File(s) Provided to BCBSTX* | |
| BCBSTX Ingestion Dev | | Development/ Test | | | |
| E2E & UAT & Regression Testing | | *NM & TX E2E Files from Availity* | Testing | | |
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# Key Takeaways

**PARTNERSHIP**

Partnering with stakeholders for roster generation

**SCALE**

Multiple threads to decrease processing times

**PRIVACY**

Avoid receiving multiple matches to respect HIPAA policies

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# TX State Registry and Availity


Thank You

# Thank You!

Blue Cross and Blue Shield of Texas

Health Data Exchange Team