Test Plan

P-1444 Agencywide FHIR Implementation
Phase 2 STI FHIR

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1   Document Revision History

Table/Revision History

Version #	Revision Date	Revisor(s)	Requestor(s)	Change Description
1	7/15/24	Ann Reid	Project Team	Original
2	9/30/24	Summer Robbins, Srujana Japa, Ann Reid	Project Team	Final

2   Document Summary

The purpose of this document is to confirm the proposed test plan for the STI FHIR Integration and User Acceptance Testing.

The tested is intended to appropriately test all major functionality and expected scenarios

Document Scope

The document will illustrate expected scenarios for all "happy path" and common "unhappy path" errors. This document is intended to give enough understanding for users familiar with STI FHIR to perform the requested tasks.

Document Test Plan Format

The document will lay out issues in the requested format

- Test Scenario
- Preconditions
- Test Procedure
- Test Outcome

3   Reviewer/Approver Team

Table Test Team

Project Role	Name
Test Plan Author	Ann Reid, Summer Robbins, Dan Norman

Project Role	Name
Developer	Dan Norman
Developer	Nate Imihy Bean
DEX Admin User	Mark Doerr
MDH Test User	Srujana Japa
MDH Test User	Summer Robbins
Testing Team	Jacqueline Cassman, Beatrice Eweka, Teri Homan, Pa Xiong, Dave Schmit, Taylor Dawson, Brittany Mathews

4 Test Plan Details

This section will outline the two testing phases intended to test all STI FHIR functionality.

Integration Test Plan

MDH DEX Dependency

Test 1.0 - description

Test Scenario
- Verify API can be accessed, and data can get to Rhapsody PRD, which will be cascaded to Rhapsody STG

Preconditions
- Changes to the DEX API must be deployed
- The DEX API resources must be configured
    - Messaging will create the IDEPC FHIR STI resource via https://dex.web.health.state.mn.us/app/config/
    - IDEPC will publish the resource (make it available so Hennepin can apply to it) via https://dex.web.health.state.mn.us/app/owners/
    - Hennepin will apply to the IDEPC FHIR STI resource (register for an account and acquire an API key) via https://dex.web.health.state.mn.us/app/portal/
    - IDEPC will approve Hennepin's application via https://dex.web.health.state.mn.us/app/owners/

Test Procedure

- Have Hennepin send data to DEX via
  https://dex.web.health.state.mn.us/api/resources/proxy/idepc/fhir/sti
- Messaging will verify that the data is received by Rhapsody PRD

Test Outcome

- Data successfully arrives within Rhapsody PRD

Keycloak Dependent Testable Functionality

None

User Acceptance Test Plan (UAT)

Independently Testable Functionality

Test 2.0 – General Incoming Data

Test Scenario
- Hennepin will send around 100 messages to MDH. IDEPC will need to confirm that the data appears correct
- The MEDSS Ops eTeam will have access to the FHIR data and will be able to retrieve it from the Archive stage - msguat database.
- MEDSS OPs Testing Team will verify that the data received is correctly processed into the 'New Syphilis FHIR Data from Henn Co' workflow and ensure that the fields in the 'm. Hennepin County FHIR Data' QP are properly populated

Preconditions
- Testing staff will have access to MEDSS UAT environment, and the "New Syphilis FHIR Data from Henn Co" workflow, location where testing data is saved, and where the Phase 2 Testing Scenarios.xlsx) is stored.

Test Procedure

- The MEDSS Ops eTeam will retrieve FHIR data from the Archive stage – msguat database.
- Testing staff will test all of the phase 2 MEDSS fields in MEDSS UAT (Phase 2 Testing Scenarios.xlsx)
- Testing will be conducted in two iterations and issues discovered will be recorded in FHIR STI Issues.xlsx
- Integration Services team will fix any mapping issue(s)
- According to Hennepin, the current setup of the exchange sends messages only for patients with at least one updated field. However, it includes all available information for all fields related to phase 2 data for those patients, as approved by the STI group

Test Outcome

- Test data appropriately processes in to the "New Syphilis FHIR Data from Henn Co" workflow, and the fields in the "m. Hennepin County FHIR Data" QP are properly populated

- Testing was conducted in two iterations. In first iteration, mapping issues were noticed (FHIR STI Issues.xlsx) and fixed by Integration Services team. Upon fixing, a second iteration of testing was conducted

- Upon completion of testing-by-testing staff, STI program area tested the workflow in UAT and relayed that it 's working as expected. STI program area provided the approval to implement this in production

Test 2.0 – Data Gaps

Test Scenario

- If any scenarios are not present within the 100 messages from Hennepin, additional tests will be created to fill those gaps and Hennepin should trigger messages to MDH

Preconditions

- Testing staff will have access to MEDSS UAT environment, and the "New Syphilis FHIR Data from Henn Co" workflow, location where testing data is saved, and where the Phase 2 Testing Scenarios.xlsx) is stored

Test Procedure

- Will follow same steps in test procedure above

Test Outcome

- Will follow same steps in test procedure above

5   Issues, Questions and Notes

- *All the UAT issues are tracked here: FHIR STI Issues.xlsx*

6   Appendices

None Needed