

EMR Certification

eHealth_hub - Home Clinic Enrolment Service Interface Assessment Guide

March 31, 2020

Version 1.3



Shared health
Soins communs
Manitoba

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1 Overview

1.1 Document Purpose

This document contains details for the assessment components which are required in order for an EMR Product to be certified to the eHealth_hub - Home Clinic Enrolment Service Interface Specification.

1.2 Related Documents

This document references the following companion documents:

Table 1: Related Documents

| DOCUMENT |
|--|
| eHealth_hub - Home Clinic Enrolment Service Interface Specification |
| Manitoba EMR Certification - Baseline EMR Requirements Specification |
| eHealth_hub – Authentication Specification |
| eHealth_hub - Home Clinic Enrolment Service Interface Assessment Addendum |

Upon application for EMR Certification to this specification, Vendors can email EMR@sharedhealthmb.ca or contact their EMR Product Lead to request the associated assessment addendum containing additional configuration and connectivity details necessary for assessment.

2 EMR Product Assessment

The eHealth_hub - Home Clinic Enrolment Service Interface Specification defines the requirements for integration between the EMR and the eHealth_hub - Home Clinic Enrolment Service Interface (Enrolment Service).

2.1 Preparing for Product Assessment

Vendors of Certified EMR Products are advised to thoroughly prepare to ensure that the assessment goes smoothly and to ensure that it can be completed in the allocated time. Before an assessment session, the Vendor of a Certified EMR Product must:

1. Complete the assertion component of certification by submitting [Appendix A](#).
2. Review each scenario to ensure understanding. If questions arise, please contact your designated Product Lead and they will provide any required clarification.
3. Complete the pre-requisites related to each assessment scenario.
4. Conduct an end-to-end dry run to ensure that any identified issues can be remedied prior to assessment, and to confirm the time required to complete the assessment. If more time is required than initially allocated, please advise Shared Health at the earliest opportunity.

Demonstration provided by vendors that does not align with Assessment Scenarios or Assessment Addendum data may require re-assessment to confirm that requirements are met.

Vendors are expected to keep in-session development to a minimum during assessment sessions. Product Leads reserve the right to discontinue any assessment sessions based on EMR Product and vendor resource readiness

2.2 Addendum

A companion document to this Assessment Guide is the eHealth_hub - Home Clinic Enrolment Service Interface Assessment Addendum (addendum) which must be requested. The addendum will contain the necessary information to connect the Certification environment to Shared Health enabling assessment. The following information will be contained in the addendum:

- EMR ID and Home Clinic ID
- Testing Network URLs
- Certificates
- Pre-configured Connection Sample (SOAP Project file)
- Test clients and test providers
 - Assessment scenarios contain references to clients and providers that will be provided in the addendum

2.3 Assessment Column Definitions

ID – A unique identifier for the assessment scenario

Description – A brief text description of the assessment being performed

Precondition – Any setup that must be in place prior to the assessment being performed

Script – The detailed steps needed to execute the assessment

Expected Results – The detailed results to be demonstrated and that prove successful execution of the test

Reqmt Xref – A reference to one or more requirements from the specification

2.4 Assessment Scenarios

CONNECTIVITY

Table 2: Assessment Scenarios - Connectivity

| ID | DESCRIPTION | PRECONDITION | SCRIPT | EXPECTED RESULTS | REQMT XREF |
|-----|---|--|--|---|-----------------------------|
| C01 | <p>Connect to the Enrolment Service:</p> <p>– Invoke the <i>SubmitEnrolment</i> operation</p> | <p>[HOMECLINIC-01] has been set up in the EMR.</p> <p>The client record [CLIENT-01] is in context and does not contain any pre-existing enrolment information.</p> | <ol style="list-style-type: none"> 1. Access the Manage Client Enrolment functionality. 2. Update the client's enrolment information as follows: <ul style="list-style-type: none"> • Home Clinic: [HOMECLINIC-01] • Home Clinic Enrolment Start Date: [August 1, 2017] • Home Clinic Enrolment Method: [ACTIVE] • Provider Billing Number: [PROVIDER-01] • Client Provider Relationship Start Date: | <ol style="list-style-type: none"> 1. The Manage Client Enrolment functionality is displayed. 2. Updated client enrolment information is displayed. 3. The EMR receives a successful request from the Enrolment Service. | <p>ENR001</p> <p>ENR007</p> |

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| | | | [Yesterday's date] 3. Save and submit the enrolment information. | | |
| C02 | Submit a client enrolment: – Using an invalid EMR Certificate | EMR has an invalid certificate. The client record [CLIENT-02] is in context and does not contain any pre-existing enrolment information. | 1. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Home Clinic: [HOMECLINIC-01] Home Clinic Enrolment Start Date: [August 1, 2017] Home Clinic Enrolment Method: [ACTIVE] 2. Save and submit the enrolment information. 3. Defer the failed submission error response. 4. Schedule an appointment for the client. 5. Restore the valid EMR certificate. | 1. Updated client enrolment information is displayed. 2. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Displays a failed submission error response 3. The EMR: <ul style="list-style-type: none"> Retains the un-submitted client enrolment information for the client Provides additional submission error details as received from the Enrolment Service in the EMR interface log 4. The EMR User is able to successfully schedule an appointment for the client. 5. The valid EMR certificate is applied. | ENR001 ENR007 ENR008 ENR009 ENR010 ENR015 ENR020 |
| C03 | Submit a client enrolment: – Enrolment Service is unavailable | The client record [CLIENT-03] is in context and does not contain any pre-existing enrolment information. Enrolment Service is unavailable. | 1. Access the Manage Client Enrolment functionality. 2. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Home Clinic: [HOMECLINIC-01] Home Clinic Enrolment Start Date: [April 1, 2018] Home Clinic Enrolment Method: [ACTIVE] | 1. The Manage Client Enrolment functionality is displayed. 2. Updated client enrolment information is displayed. 3. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service | ENR001 ENR007 ENR008 ENR010 ENR015 ENR020 |

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|-----|--|---|--|--|--------------------------------------|
| | | | <ol style="list-style-type: none"> 3. Save and submit the enrolment information. 4. Defer the failed submission error response. 5. Schedule an appointment for the client. | <ul style="list-style-type: none"> • Displays a failed submission error response • Updated client enrolment information is displayed. <ol style="list-style-type: none"> 4. The EMR: <ul style="list-style-type: none"> • Retains the deferred client enrolment information • Provides additional submission error details as received from the Enrolment Service in the EMR interface log 5. The EMR User is able to successfully schedule an appointment for the client. | |
| C04 | <p>Submit a client enrolment:</p> <ul style="list-style-type: none"> – Valid EMR ID – Invalid Home Clinic ID | [CLIENT-01] is enrolled to [HOMECLINIC-01], per Scenario C01. | <ol style="list-style-type: none"> 1. Access the Manage Home Clinic Details functionality for [HOMECLINIC-01]. 2. Change the information about the Home Clinic as follows: <ul style="list-style-type: none"> • Home Clinic Identifier: [9000001] (an invalid ID) 3. Access the Manage Client Enrolment functionality for [CLIENT-01]. 4. Save and submit the enrolment information. 5. Access the Manage Home Clinic Details functionality and revert the Home Clinic Identifier back to the value specified in the Addendum, per [HOMECLINIC-01]. | <ol style="list-style-type: none"> 1. The Manage Home Clinic Details functionality is displayed. 2. Updated Home Clinic information is displayed. 3. The Manage Client Enrolment functionality is displayed. 4. The EMR: <ul style="list-style-type: none"> • Displays a failed submission error response • Provides additional submission error details as received from the Enrolment Service in the EMR interface log 5. Updated Home Clinic information is displayed and portrays the original Home Clinic Identifier for [HOMECLINIC-01]. | ENR001 ENR007 ENR010 ENR015 |
| C05 | Submit a client enrolment: | [CLIENT-01] is enrolled to [HOMECLINIC-01]; | 1. Change the EMR ID to an invalid EMR ID. | <ol style="list-style-type: none"> 1. The EMR ID has been updated. 2. The Manage Home Clinic | ENR001 ENR007 |

| | | | | | |
|-----|--|---|---|--|--------------------------------------|
| | <ul style="list-style-type: none"> — Invalid EMR ID — Invalid Home Clinic ID | per Scenario C01. | <ol style="list-style-type: none"> 2. Access the Manage Home Clinic Details functionality. 3. Change the information about the Home Clinic as follows: <ul style="list-style-type: none"> • Home Clinic Identifier: [9000001] (an invalid ID) 4. Access the Manage Client Enrolment functionality for client [CLIENT-01]. 5. Save and submit the enrolment information. 6. Access the Manage Home Clinic Details functionality and revert the Home Clinic Identifier back, per [HOMECLINIC-01]. <p>Revert the EMR ID back to its original value.</p> | <p>Details functionality is displayed.</p> <ol style="list-style-type: none"> 3. Updated Home Clinic information is displayed. 4. Updated Home Clinic information is displayed. 5. The EMR: <ul style="list-style-type: none"> • Displays a failed submission error response. • Provides additional submission error details as received from the Enrolment Service in the EMR interface log. 6. Updated Home Clinic information is displayed and portrays the original Home Clinic Identifier for [HOMECLINIC-01]. <p>The EMR ID is updated.</p> | ENR010 ENR015 |
| C06 | <p>Submit a client enrolment:</p> <ul style="list-style-type: none"> – Invalid EMR ID – Valid Home Clinic ID | [CLIENT-01] is enrolled to [HOMECLINIC-01], per Scenario C01. | <ol style="list-style-type: none"> 1. Change the EMR ID to an invalid EMR ID. 2. Access the Manage Client Enrolment functionality for client [CLIENT-01]. 3. Save and submit the enrolment information. 4. Change the EMR ID back to its original value. | <ol style="list-style-type: none"> 1. The EMR ID has been updated. 2. The Manage Client Enrolment functionality is displayed. 3. The EMR: <ul style="list-style-type: none"> • Displays a failed submission error response. Provides additional submission error details as received from the Enrolment Service in the EMR interface log 4. The EMR ID is updated. | ENR001 ENR007 ENR010 ENR015 |

INTERFACE

Table 3: Assessment Scenarios - Interface

| ID | DESCRIPTION | PRECONDITION | SCRIPT | EXPECTED RESULTS | REQMT XREF |
|-----|---|---|---|---|------------|
| E01 | Set up a Home Clinic | | <ol style="list-style-type: none"> 1. Log in as an EMR administrator/appropriate user and access the Home Clinic Details functionality. 2. Enter the Home Clinic details for [HOMECLINIC-02] as follows: <ul style="list-style-type: none"> • Home Clinic Identifier: [refer to Assessment Addendum] • Home Clinic Name: [Home Clinic Two] 3. Save Home Clinic details. 4. Log out. 5. Log in as an EMR User (i.e. without administrative privileges) and access Home Clinic Details functionality in the EMR. Attempt to modify or save Home Clinic Details. | <ol style="list-style-type: none"> 1. The EMR administrator/appropriate user is logged in and the Home Clinic Details functionality is displayed. 2. The entered Home Clinic details are displayed. 3. EMR saves the Home Clinic details. 4. EMR administrator/appropriate user is logged out. 5. EMR User can view Home Clinic details. EMR User cannot modify or save Home Clinic details. | ENR003 |
| E02 | Set up a Home Clinic: – Multiple Home Clinics in a shared EMR instance | [HOMECLINIC-02] has been set up in the EMR, per Scenario E01. | <ol style="list-style-type: none"> 1. Log in as an EMR administrator/appropriate user and access the Home Clinic Details functionality. 2. Enter the Home Clinic details for [HOMECLINIC-03] as follows: <ul style="list-style-type: none"> • Home Clinic Identifier: [refer to Assessment Addendum] • Home Clinic Name: [Home Clinic Three] <p>Save Home Clinic Details.</p> | <ol style="list-style-type: none"> 1. The EMR administrator/appropriate user is logged in and the Home Clinic Details functionality is displayed. 2. The entered Home Clinic details are displayed. Home Clinic details are for both [HOMECLINIC-02] and [HOMECLINIC-03] are available. | ENR003 |

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|-----|---|---|--|---|-------------------------------------|
| E03 | <p>Enrol a client:</p> <p>– Change the Home Clinic</p> | <p>[HOMECLINIC-02] and [HOMECLINIC-03] have been set up in the EMR, per Scenarios E01 and E02.</p> <p>EMR User has access to Home Clinics: [HOMECLINIC-02] and [HOMECLINIC-03].</p> <p>The client record [CLIENT-04] is in context and does not contain any pre-existing enrolment information.</p> | <ol style="list-style-type: none"> 1. Access the Manage Client Enrolment functionality. 2. View the current client enrolment details. 3. Update the client's enrolment information as follows: <ul style="list-style-type: none"> • Home Clinic: [HOMECLINIC-02] • Home Clinic Start Date: [February 1, 2018] • Home Clinic Enrolment Method: [ACTIVE] 4. Save and submit the enrolment information. 5. Update the client's enrolment information as follows: <ul style="list-style-type: none"> • Home Clinic: [HOMECLINIC-03] • Home Clinic Start Date: [April 1, 2018] • Home Clinic Enrolment Method: [ACTIVE] 6. Save and submit the enrolment information. | <ol style="list-style-type: none"> 1. The Manage Client Enrolment functionality is displayed. 2. Current client enrolment information is displayed. 3. Updated client enrolment information is displayed. 4. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information • Submits the enrolment information to the Enrolment Service • Suppresses the display of the successful response code 5. Updated client enrolment information is displayed. 6. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information • Submits the enrolment information to the Enrolment Service • Suppresses the display of the successful response code | <p>ENR005 ENR006 ENR007</p> |
| E04 | <p>Enrol a client:</p> <p>– ACTIVE method</p> <p>– Add a Provider using Provider's name</p> | <p>The client record [CLIENT-05] is in context and does not contain any pre-existing enrolment information.</p> | <ol style="list-style-type: none"> 1. Access the Manage Client Enrolment functionality. 2. Update the client's enrolment information as follows: <ul style="list-style-type: none"> • Home Clinic Identifier: [HOMECLINIC-02] • Home Clinic Enrolment Start Date: [January 1, 2017] • Home Clinic Enrolment Method: [ACTIVE] | <ol style="list-style-type: none"> 1. The Manage Client Enrolment functionality is displayed. 2. Updated client enrolment information is displayed, including the name of the Associated Provider and the Provider Billing Number without needing to navigate to a different screen, tab, or view. 3. The EMR: <ul style="list-style-type: none"> • Has saved the updated | <p>ENR005 ENR006 ENR007</p> |

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| | | | <ul style="list-style-type: none"> Select the Provider Billing Number for [PROVIDER-01] by using the Provider's name Client Provider Relationship Start Date: [Yesterday's Date] <p>3. Save and submit the enrolment information.</p> | <ul style="list-style-type: none"> client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of the successful response code | |
| E05 | Update an enrolment: – Change Provider | The client record [CLIENT-05] is in context, and is enrolled to [HOMECLINIC-02] and associated to [PROVIDER-01], per Scenario E04. | <ol style="list-style-type: none"> Access the Manage Client Enrolment functionality. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Provider Billing Number: [PROVIDER-02] Client Provider Relationship Start Date: [Yesterday's Date] Save and submit the enrolment information. | <ol style="list-style-type: none"> The Manage Client Enrolment functionality is displayed. Updated client enrolment information is displayed and is accessible within the same tab, screen, or view. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of the successful response code | ENR005 ENR006 ENR007 |
| E06 | Enrol a client: – PASSIVE method | EMR User has access to Home Clinic [HOMECLINIC-03]. The client record [CLIENT-06] is in context and does not contain any pre-existing enrolment information. | <ol style="list-style-type: none"> Access the Manage Client Enrolment functionality. Enter the client's enrolment information as follows: <ul style="list-style-type: none"> Home Clinic: [HOMECLINIC-03] Home Clinic Enrolment Start Date: [January 1, 2017] Home Clinic Enrolment Method: [PASSIVE] Provider Billing Number: [PROVIDER-03] | <ol style="list-style-type: none"> The Manage Client Enrolment functionality is displayed. Update client enrolment information is displayed and is accessible within the same tab, screen, or view. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of | ENR005 ENR006 ENR007 |

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| | | | <ul style="list-style-type: none"> Client Provider Relationship Start Date: [Yesterday's Date] <ol style="list-style-type: none"> Save and submit the enrolment information. | the successful response code | |
| E07 | Update an enrolment: – PASSIVE to ACTIVE | The client record [CLIENT-06] is in context, and is enrolled via the PASSIVE method to [HOMECLINIC-03] and associated to [PROVIDER-03], per Scenario E06. | <ol style="list-style-type: none"> Access the Manage Client Enrolment functionality. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Home Clinic Enrolment Method: [ACTIVE] Save and submit the enrolment information. | <ol style="list-style-type: none"> The Manage Client Enrolment functionality is displayed. Updated client enrolment information is displayed and is accessible within the same tab, screen, or view. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of the successful response code | ENR005 ENR006 ENR007 |
| E08 | De-enrol a client | The client record [CLIENT-06] is in context, and is enrolled via the ACTIVE method to [HOMECLINIC-03] and associated to [PROVIDER-03], per Scenario E07. | <ol style="list-style-type: none"> Access the Manage Client Enrolment functionality. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Enrolment Termination Reason: [Client Request] Home Clinic Enrolment End Date: [Today's Date] Save and submit the enrolment information. | <ol style="list-style-type: none"> The Manage Client Enrolment functionality is displayed. Updated client enrolment information is displayed. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of the successful response code | ENR005 ENR006 ENR007 |
| E09 | View summarized enrolment data: – Client in context | | <ol style="list-style-type: none"> Place client [CLIENT-05] into context. | <ol style="list-style-type: none"> The EMR displays a summarized view of current client enrolment information, containing at minimum the | ENR018 |

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| | | | | Home Clinic Enrolment Start Date, Home Clinic Enrolment End Date and the Enrolment Method. | |
| E10 | <p>Enrol a client:</p> <p>– Receive a business validation error response</p> <p>(i.e. Provider is not currently associated with the Home Clinic)</p> | <p>EMR User has access to Home Clinic [HOMECLINIC-04].</p> <p>The client record [CLIENT-07] is in context and does not contain any pre-existing enrolment information.</p> | <ol style="list-style-type: none"> 1. Access the Manage Client Enrolment functionality. 2. Update the client's enrolment information as follows: <ul style="list-style-type: none"> • Home Clinic: [HOMECLINIC-04] • Home Clinic Enrolment Start Date: [February 1, 2018] • Home Clinic Enrolment Method: [PASSIVE] • Provider Billing Number: [PROVIDER-02] • Client Provider Relationship Start Date: [February 1, 2018] 3. Save and submit the enrolment information. 4. Defer the validation error response. | <ol style="list-style-type: none"> 1. The Manage Client Enrolment functionality is displayed. 2. Updated client enrolment information is displayed. 3. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information • Displays the returned validation error response: RIVP – Invalid Provider 4. The EMR retains the deferred validation error response. | <p>ENR001 ENR005 ENR006 ENR007 ENR008</p> |
| E11 | <p>Create and execute EMR queries:</p> <p>– With enrolment data</p> | | <ol style="list-style-type: none"> 1. Execute a query with the following criteria: <ul style="list-style-type: none"> • Enrolment data captured using previous PCDE data elements: Enrolment Start Date: [01/01/1899] 2. Execute a query with the following criteria: <ul style="list-style-type: none"> • Provider Billing Number: [PROVIDER-02] 3. Execute a query with the following criteria: <ul style="list-style-type: none"> • Home Clinic: | <ol style="list-style-type: none"> 1. Query results are displayed. 2. Query results are displayed. 3. Query results are displayed. 4. Query results are displayed. | <p>Baseline 15-001</p> |

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| | | | <p>[HOMECLINIC-02]</p> <p>4. Execute a query with the following criteria:</p> <ul style="list-style-type: none"> • Provider: [PROVIDER-01] | | |
| E12 | <p>Enrol multiple clients:</p> <p>– All submissions result in a business validation error</p> <p>(i.e. Provider is not currently associated with the Home Clinic)</p> | <p>EMR User has access to Home Clinic [HOMECLINIC-02].</p> <p>Multiple client enrolment records, [CLIENT-08], [CLIENT-09], [CLIENT-10], [CLIENT-11], and [CLIENT-12] are enrolled to [HOMECLINIC-02] and associated with [PROVIDER-01].</p> | <ol style="list-style-type: none"> 1. Search for multiple client enrolments at [HOMECLINIC-02] associated with [PROVIDER-01]. 2. Update the enrolment information as follows for [CLIENT-08], [CLIENT-09], [CLIENT-10], [CLIENT-11], and [CLIENT-12]: <ul style="list-style-type: none"> • Providing Billing Number: [PROVIDER-03] 3. Save and submit the multiple client enrolment information. 4. Defer the validation error responses. | <ol style="list-style-type: none"> 1. The list of client enrolment records is displayed. 2. Enrolment information is updated for the multiple clients. 3. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information for the multiple clients • Submits the enrolment information to the Enrolment Service • Retains the Home Clinic Enrolment Start Date (unchanged from its previous value) • Receives and displays the following validation error response for each of the five client enrolment submissions: RIVP - Invalid Provider 4. The EMR retains the deferred validation error responses. | <p>ENR001 ENR005 ENR007 ENR008 ENR019</p> |
| E13 | <p>Enrol multiple clients:</p> <p>– One submission results in a business validation error (Invalid Client Identifier)</p> | <p>EMR User has access to Home Clinic [HOMECLINIC-02].</p> <p>Multiple clients [CLIENT-15] and [CLIENT-16] exist, have an appointment within the past 30 days, and</p> | <ol style="list-style-type: none"> 1. Search for multiple clients with an appointment within the [Last 30 Days]. 2. Access the Update Multiple Client Enrolment functionality. 3. Update the enrolment information as follows for [CLIENT-15], and [CLIENT-16]: <ul style="list-style-type: none"> • Home Clinic: | <ol style="list-style-type: none"> 1. The list of client enrolment records is displayed. 2. The Update Multiple Client Enrolment functionality is displayed. 3. Enrolment information is updated for the multiple clients. 4. The EMR: <ul style="list-style-type: none"> • Has saved the updated | <p>ENR001 ENR005 ENR008 ENR019</p> |

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| | | do not contain any pre-existing enrolment information. | <p>[HOMECLINIC-02]</p> <ul style="list-style-type: none"> • Home Clinic Enrolment Start Date: [February 1, 2018] • Home Clinic Enrolment Method: [PASSIVE] • Providing Billing Number: [PROVIDER-04] • Client Provider Relationship Start Date: [February 1, 2018] <p>4. Save and submit the multiple client enrolment information in a single action.</p> <p>5. Defer the validation error response.</p> | <p>client enrolment information for the multiple clients</p> <ul style="list-style-type: none"> • Submits the enrolment information to the Enrolment Service • Suppresses the display of the successful response codes • Receives and displays a validation error response for one client [CLIENT-16]: RCIT – Client Identifier Type Invalid <p>5. The EMR retains the deferred validation error response.</p> | |
| E14 | <p>Retrieve enrolment remediation messages:</p> <ul style="list-style-type: none"> – Manual retrieval of remediation messages – For Multiple Home Clinics in a shared EMR instance | EMR instance contains two Home Clinics [HOMECLINIC-02] and [HOMECLINIC-03]. | <ol style="list-style-type: none"> 1. Log in as an EMR Administrative/appropriate user. 2. Invoke the <i>GetEnrolmentRemediation</i> operation for [HOMECLINIC-02] and [HOMECLINIC-03]. 3. Log out and log back in as an EMR User. 4. Access the Manage Enrolment functionality for [CLIENT-13] and update the client's enrolment as follows: <ul style="list-style-type: none"> • Home Clinic: [HOMECLINIC-02] • Home Clinic Enrolment Start Date: [February 1, 2018] • Home Clinic Enrolment Method: [PASSIVE] | <ol style="list-style-type: none"> 1. The EMR administrator/appropriate user is logged in. 2. The EMR: <ul style="list-style-type: none"> • Generates the <i>GetEnrolmentRemediation</i> XML request • Supplies a unique transaction identifier in the <i>GetEnrolmentRemediation</i> operation • Receives the response from the <i>GetEnrolmentRemediation</i> operation • Generates the <i>AcknowledgeRemediation</i> XML request • Uses the same transaction identifier in the | <p>ENR001 ENR005 ENR006 ENR007 ENR011 ENR012 ENR013 ENR016 ENR017</p> |

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| | | | <ol style="list-style-type: none"> 5. Save and submit the enrolment information. 6. Wait for the rules processing job to complete within the test environment, then invoke the <i>GetEnrolmentRemediation</i> operation for [HOMECLINIC-02] and [HOMECLINIC-03], and access the Home Clinic Remediation List for [HOMECLINIC-02]. 7. Access the Home Clinic Remediation List for [HOMECLINIC-03]. 8. Select the client enrolment record for Client [CLIENT-13] for Home Clinic [HOMECLINIC-02] and access the Manage Client Enrolment functionality. 9. Remove the client's enrolment information, save the information and navigate back to the Home Clinic Remediation List. Clear the remediation messages from the Home Clinic Remediation List for [HOMECLINIC-02]. | <p><i>AcknowledgeRemediation</i> operation</p> <ol style="list-style-type: none"> 3. The EMR administrative/appropriate user is logged out and the EMR User is logged in. 4. Updated client enrolment information is displayed. 5. The Enrolment Service receives a successful request. 6. The EMR: <ul style="list-style-type: none"> • Displays the Home Clinic Remediation List for Home Clinic [HOMECLINIC-02] as a sortable and filterable list • Includes an enrolment remediation message of RPEC – Passive Enrolment Conflict in the Home Clinic Remediation List for [HOMECLINIC-02] for client [CLIENT-13] 7. The EMR: <ul style="list-style-type: none"> • Displays the Home Clinic Remediation List for Home Clinic [HOMECLINIC-03] as a sortable and filterable list • Includes an enrolment remediation message of DPEC – Passive Enrolment Conflict in the Home Clinic Remediation List for [HOMECLINIC-03] for client [CLIENT-13] 8. The client record is selected | |
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| | | | | <p>and the Manage Client Enrolment functionality is displayed.</p> <p>9. Client enrolment information is updated and the Home Clinic Remediation List is displayed. EMR User is able to clear the remediation message for client [CLIENT-13] from the Home Clinic Remediation List for [HOMECLINIC-02].</p> | |
| E15 | <p>Retrieve enrolment remediation messages:</p> <ul style="list-style-type: none"> – More than 25 remediation messages are available | <p>The EMR is configured to invoke the <i>GetEnrolmentRemediation</i> operation via a scheduled job.</p> <p>The scheduled job to invoke the <i>GetEnrolmentRemediation</i> operation for [HOMECLINIC-04] has run.</p> | <p>1. Access the Home Clinic Remediation List for [HOMECLINIC-04]. Select the remediation record for [CLIENT-17] and navigate to the Manage Enrolment functionality for this client.</p> | <p>1. The EMR displays all 30 enrolment remediation messages of RASP – Active Supersedes Passive in the Home Clinic Remediation List. The EMR User is able to navigate to the enrolment information for [CLIENT-17] directly from the Home Clinic Remediation List without having to search for this client.</p> | <p>ENR001 ENR011 ENR012 ENR013 ENR017</p> |
| E16 | <p>Check EMR Interface Log:</p> <ul style="list-style-type: none"> – Errors are logged – Events are logged | <p>The following Scenarios were executed and have generated validation response errors: C04, C05.</p> <p>The following Scenarios were executed and have generated successful response events: C01, E12, E13, E14, and E15.</p> | <p>1. Access the EMR interface log.</p> | <p>1. The EMR:</p> <ul style="list-style-type: none"> • Contains error details consisting of the date/time of the error message, error ID, error type • Contains successful event details including the date/time of the successful validation response | <p>ENR015</p> |
| E17 | <p>Submit enrolment data:</p> | <p>The following Scenarios were executed:</p> | <p>1. Submit the enrolment information for each client</p> | <p>1. The EMR:</p> <ul style="list-style-type: none"> • Submits the enrolment | <p>ENR001 ENR007</p> |

| | | | | | |
|-----|--|---|---|--|--|
| | <ul style="list-style-type: none"> – Multiple clients – Previously unsuccessful enrolments due to system-related errors | <p>C04, C05.</p> <p>This has generated unsuccessful enrolments for clients [CLIENT-02] and [CLIENT-03].</p> | <p>whose submission had previously been unsuccessful.</p> | <p>information to the Enrolment Service</p> <ul style="list-style-type: none"> • Receives a response from the Enrolment Service and suppresses the display of the successful response code(s) | <p>ENR009 ENR019</p> |
| E18 | <p>Submit enrolment data:</p> <ul style="list-style-type: none"> – Multiple clients – Previously deferred unsuccessful enrolments due to business-related errors | <p>EMR User has access to Home Clinic [HOMECLINIC-02].</p> <p>The following Scenarios were executed: E12 and E13.</p> <p>This has generated failed validation responses at [HOMECLINIC-02] for clients: [CLIENT-08], [CLIENT-09], [CLIENT-10], [CLIENT-11], and [CLIENT-12], per E12; and [CLIENT-16], per E13.</p> | <ol style="list-style-type: none"> 1. Update and submit client enrolment information as follows: <ul style="list-style-type: none"> • For clients [CLIENT-08], [CLIENT-09], [CLIENT-10], [CLIENT-11], and [CLIENT-12], remove the Client Provider Relationship with [PROVIDER-01]. 2. Update client enrolment information as follows, and then submit enrolment information: <p>For client [CLIENT-16]:</p> <ul style="list-style-type: none"> • Client Identifier Type: JHNMB • Client Identifier: [911055844] • Home Clinic: [HOMECLINIC-02] • Home Clinic Enrolment Start Date: [February 1, 2018] • Home Clinic Enrolment Method: [PASSIVE] • Providing Billing Number: [PROVIDER-04] • Client Provider Relationship Start Date: [February 1, 2018] | <ol style="list-style-type: none"> 1. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information • Submits the enrolment information to the Enrolment Service • Suppresses the display of the successful response codes 2. The EMR: <ul style="list-style-type: none"> • Has saved the updated client enrolment information • Submits the enrolment information to the Enrolment Service • Suppresses the display of the successful response codes | <p>ENR001 ENR007 ENR009 ENR019</p> |
| E19 | <p>Create and maintain</p> | <p>EMR User has access</p> | <ol style="list-style-type: none"> 1. Generate a Record of User | <ol style="list-style-type: none"> 1. The Record of User Activity is | <p>Baseline</p> |

| | | | | | |
|-----|--|--|--|--|--------|
| | a Record of User Activity. | to Home Clinic [HOMECLINIC-03]. The following Scenarios were executed: E07, and E08. | Activity. 2. Attempt to modify the Record of User Activity. Generate a PDF of a Record of User Activity. | displayed and contains: <ul style="list-style-type: none"> The Client Identifier associated with the enrolment record accessed The identity of the user who accessed the client enrolment record The date/time the client enrolment record was accessed 2. The Record of User Activity is not able to be modified. A PDF of the Record of User Activity is displayed. | 16-012 |
| E20 | Generate PCDE – Confirm previous PASSIVE enrolment dates continue to use 01/01/1899 | | 1. Generate the PCDE files. Open demographic.csv file. | 1. EMR produces the PCDE files, including the demographic.csv file. The Enrolment Start Date for [CLIENT-14] uses a value of 01/01/1899. | ENR020 |
| E21 | Update an enrolment: – PASSIVE enrolment previously captured via PCDE | EMR User has access to Home Clinic [HOMECLINIC-01]. The client record [CLIENT-14] is in context, and had previously been enrolled to the Home Clinic through PCDE via a PASSIVE enrolment start date of 01/01/1899. | 1. Access the Manage Client Enrolment functionality. 2. Update the client's enrolment information as follows: <ul style="list-style-type: none"> Home Clinic Enrolment Method: [PASSIVE] Home Clinic Enrolment Start Date: [Today's Date] 3. Save and submit the enrolment information. | 1. The Manage Client Enrolment functionality is displayed. 2. Updated client enrolment information is displayed and is accessible within the same tab, screen, or view. 3. The EMR: <ul style="list-style-type: none"> Has saved the updated client enrolment information Submits the enrolment information to the Enrolment Service Suppresses the display of the successful response code | ENR005 |

3 Appendix A: Assertions

Vendors of Certified Products are required to provide their self-assessment against requirements that have an assessment type of “Assertion”. Follow the instructions below to complete the assertion component of this assessment:

1. Print Appendix A.
2. Assess the EMR product's ability to meet each requirement below.
 - Where the product fully meets the requirement, check “Yes” in the Assertion column
 - Where the product will need to be enhanced to fully meet the requirement, check “No” in the Assertion column

Note that the product must be enhanced for all requirements with a No assertion, prior to certification of the EMR product.

3. Scan the completed assertion sheet, and save the scanned sheet with a filename that uniquely identifies your EMR Product. For example, Assertion_HCCS_EMR-PRODUCT-NAME.pdf.
4. Submit the completed Assertion document to EMR@sharedhealthmb.ca.

Table 4: Assertions

| | | |
|--|--|--|
| ORGANIZATION NAME | | |
| EMR PRODUCT NAME | | |
| ID | | ASSERTION |
| ENR002 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ENR004 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ENR011 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ENR014 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Assertions related to Specification Table 4: Baseline Requirements | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Assertions related to Specification Table 8: Additional System Data Elements | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| eHealth_hub - Authentication Specification - AUTH-004 | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| AUTHORIZED REPRESENTATIVE | | |
| Name | | |
| Title | | |
| Date | | |

(eHealth_hub - Home Clinic Enrolment Service Interface Assessment Guide)

4 Appendix B: Test Case to Requirement Traceability

Table 5: Test Case to Requirement Traceability

| Test Case ID | Specification Requirements | | | | | | | | | | | | | | | | | | | | | Baseline | |
|---------------|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---|
| | ENR001 | ENR002 | ENR003 | ENR004 | ENR005 | ENR006 | ENR007 | ENR008 | ENR009 | ENR010 | ENR011 | ENR012 | ENR013 | ENR014 | ENR015 | ENR016 | ENR017 | ENR018 | ENR019 | ENR020 | ENR021 | | |
| Assertions | | x | | x | | | | | | | x | | | x | | | | | | | | | 4 |
| Verifications | | | | | | x | | | | | | | | | | | | | | | | | 1 |
| C01 | x | | | | | | x | | | | | | | | | | | | | | | | 2 |
| C02 | x | | | | | | x | x | x | x | | | | | x | | | | | | x | | 7 |
| C03 | x | | | | | | x | x | | x | | | | | x | | | | | | x | | 6 |
| C04 | x | | | | | | x | | | x | | | | | x | | | | | | | | 4 |
| C05 | x | | | | | | x | | | x | | | | | x | | | | | | | | 4 |
| C06 | x | | | | | | x | | | x | | | | | x | | | | | | | | 4 |
| E01 | | | x | | | | | | | | | | | | | | | | | | | | 1 |
| E02 | | | x | | | | | | | | | | | | | | | | | | | | 1 |
| E03 | x | | | | x | x | x | | | | | | | | | | | | | | | | 4 |
| E04 | x | | | | x | x | x | | | | | | | | | | | | | | | x | 5 |
| E05 | x | | | | x | x | x | | | | | | | | | | | | | | | x | 5 |
| E06 | x | | | | x | x | x | | | | | | | | | | | | | | | x | 5 |
| E07 | x | | | | x | x | x | | | | | | | | | | | | | | | x | 5 |
| E08 | x | | | | x | x | x | | | | | | | | | | | | | | | | 4 |
| E09 | | | | | | | | | | | | | | | | | | x | | | | | 1 |
| E10 | x | | | | x | x | x | x | | | | | | | | | | | | | | | 5 |
| E11 | | | | | | | | | | | | | | | | | | | | | | x | 1 |
| E12 | x | | | | x | | x | x | | | | | | | | | | | | | x | | 5 |
| E13 | x | | | | x | | | x | | | | | | | | | | | | | x | | 4 |
| E14 | x | | | | x | x | x | | | | x | x | x | | | x | x | | | | | | 9 |
| E15 | x | | | | | | | | | | x | x | x | | | | x | | | | | | 5 |
| E16 | | | | | | | | | | | | | | | x | | | | | | | | 1 |
| E17 | x | | | | | | x | | | x | | | | | | | | | | | x | | 4 |
| E18 | x | | | | | | x | | | x | | | | | | | | | | | x | | 4 |
| E19 | | | | | | | | | | | | | | | | | | | | | | x | 1 |
| E20 | | | | | | | | | | | | | | | | | | | | | x | | 1 |
| E21 | | | | | x | | | | | | | | | | | | | | | | | | 1 |
| | 19 | 1 | 2 | 1 | 11 | 9 | 17 | 5 | 3 | 5 | 3 | 2 | 2 | 1 | 6 | 1 | 2 | 1 | 4 | 3 | 4 | 2 | |

5 Appendix C: Release Notes

Version 1.0 October 22, 2018

- Initial release

Version 1.1 January 31, 2019

- Updated Appendix A: Assertions to include the assertion requirement, ENR011
- Fixed numbering issue on Expected Results for scenarios C01 and E07

Version 1.2 September 11, 2019

- Updated document theme to new organizational visual identity
- Updated Manitoba eHealth to Shared Health to align with new organizational structure, including changes to the EMR Certification contact email address
- Update to scenarios (script and expected results):
 - C01 – Updated Client-Provider Relationship Start Date
 - C05 – Removed scenario which is adequately assessed in C04 and C06
 - E01 and E02 – Updated Home Clinic Identifier reference
 - E04, E05 and E06 – Updated Client-Provider Relationship Start Date
 - E08 – Updated Enrolment Termination Reason
 - E10 – Updated the expected rejection code result
 - E11 – Removed extraneous query criteria
 - E14 – Added the step of invoking the *GetEnrolmentRemediation* operation following rules processing in Step 6
 - E18 – Updated test Provider info and added detailed enrolment data needed for Step 2

Version 1.3 March 31, 2020

- Removed Intended Audience section
- Updated Related Documents:
 - Added eHealth_hub – Authentication Specification
- Updated Assertions Appendix
 - Added eHealth_hub - Authentication Specification - AUTH-004