

EMR Certification

eHealth_hub - Diagnostic Imaging Report Result Distribution Interface Assessment Guide

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Version 1.4



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 – Diagnostic Imaging Report Result Distribution Interface Specification.

1.2 Related Documents

This document references the following companion documents:

Table 1: Related Documents

| DOCUMENT |
|---|
| Manitoba EMR Certification - Baseline EMR Requirements Specification |
| eHealth_hub - Diagnostic Imaging Report Result Distribution Interface Specification |
| eHealth_hub - Diagnostic Imaging Report Result Distribution Interface Message Specification |
| eHealth_hub – Authentication Specification |
| eHealth_hub - Diagnostic Imaging Report Result Distribution 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 additional assessment addendum containing additional configuration and connectivity details necessary for assessment.

2 EMR Product Assessment

The eHealth_hub - Diagnostic Imaging Report Result Distribution Interface Specification defines the requirements for integration between the EMR and the eHealth_hub - Diagnostic Imaging Report Result Distribution Interface (DI Report Result Distribution Interface).

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 - Diagnostic Imaging Report Result Distribution 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)
- Sample Messages

2.3 Message Replay Tool

A message replay tool is available on demand to the applicants to replay sample messages into their mailbox for integration testing and assessment.

2.3.1 SOAP Message Structure

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:mes="http://www.examplewebservice.com/MessageTriggerService">
  <soapenv:Header/>
  <soapenv:Body>
    <mes:MessageTriggerRequest>
      <EmrID>ENTER TEST EMR ID HERE</EmrID>
      <ClinicID>ENTER TEST CLINIC ID HERE</ClinicID>
      <Set>1</Set>
    </mes:MessageTriggerRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

2.3.2 Request Parameters

Table 2: Message Replay Tool - Request Parameters

| PARAMETER | DESCRIPTION |
|-------------------|---|
| EMRID (mandatory) | Send the test EMR ID provided by Shared Health. |

| PARAMETER | DESCRIPTION |
|----------------------|--|
| ClinicID (mandatory) | Send the test Clinic ID provided by Shared Health. |
| Set (mandatory) | Send the set ID of the message to replay. |

See eHealth_hub – Diagnostic Imaging Report Result Distribution Assessment Addendum for the available parameter values

2.4 Test Patients

Test scripts and associated test messages use following test patient(s) information. The applicant must make the following test patient(s) available in EMR for the assessment of their product:

Table 3: Test Patients

| NAME | DOB | GENDER | PHIN | OTHER PROVINCE IDENTIFIER | HOSPITAL MRN* |
|---------------------|------------|--------|----------------|-----------------------------|---------------------------------|
| MALE TESTPATIENT1 | 1965-04-25 | Male | 955500511 | Not applicable | St. Boniface Hospital: 01051522 |
| FEMALE TESTPATIENT2 | 1982-06-12 | Female | 955500522 | Not applicable | Not applicable |
| MALE TESTPATIENT3 | 1994-10-09 | Male | 955500533 | Not applicable | Not applicable |
| MALE TESTPATIENT4 | 1976-03-05 | Male | Not applicable | Saskatchewan HSN: 955500544 | Not applicable |

2.5 Test Providers

Test scripts and associated test messages use following test provider(s) information. The EMR applicant must make the following test provider(s) available in EMR for the assessment of their product:

Table 4: Test Providers

| NAME | ID |
|---------------------|------|
| Dr. Test Provider1 | 1111 |
| Dr. Test Provider2 | 2222 |
| Dr. Test Provider3 | 3333 |
| Dr. Test Provider97 | 9797 |
| Dr. Test Provider98 | 9898 |

2.6 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
- **Test Data** – Relevant data, as defined in the testing logistics, to be used in execution of the test

2.7 Assessment Scenarios

2.7.1 Connectivity

Table 5: Assessment Scenarios – Connectivity

| ID | DESCRIPTION | PRECONDITION | SCRIPT | EXPECTED RESULTS | REQMT. XREF |
|----|---|---|----------------------------|---|--------------------------------------|
| I1 | Manually trigger EMR to check mailbox - Messages in mailbox. | Messages are in mailbox. EMR is authenticated and authorized. | 1. Manually check mailbox. | EMR interface log contains manual check details. | HD.I01 HD.I02 HD.I04 HD.I11 |
| I2 | Manually trigger EMR to check mailbox - No messages in mailbox. | No messages are in mailbox. EMR is authenticated and authorized. | 1. Manually check mailbox. | EMR interface log contains manual check details for an empty mailbox. | HD.I11 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | EXPECTED RESULTS | REQMT. XREF |
|----|---|---|--|--|------------------|
| 13 | Automatically trigger EMR to check mailbox periodically - No messages in mailbox. | No messages are in mailbox. EMR is authenticated and authorized. | <ol style="list-style-type: none"> 1. Change mailbox polling interval to 1 minute. 2. Change mailbox polling interval to 2 minutes. | <ol style="list-style-type: none"> 1. EMR interface log shows successful mailbox checks at a 1-minute interval. 2. EMR interface log shows successful mailbox checks at a 2-minute interval. | HD.I07 HD.I11 |
| 14 | EMR request - No active mailbox. | EMR is authenticated and authorized. | <ol style="list-style-type: none"> 1. EMR attempts to check for results. 2. eHealth_hub simulates and sends a mailbox error. 3. EMR receives mailbox error. | EMR notifies EMR administrator and logs error. | HD.I10 |
| 15 | EMR request - Invalid EMR identifier. | | <ol style="list-style-type: none"> 1. Change the configured EMR identifier to a fictitious value. 2. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I03 HD.I10 |
| 16 | EMR request – Valid Clinic identifier and invalid EMR identifier. | Clinic identifier is set to the value provided by Shared Health. | <ol style="list-style-type: none"> 1. Change the configured EMR identifier to a fictitious value. 2. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I03 HD.I10 |
| 17 | EMR request – Invalid Clinic identifier. | | <ol style="list-style-type: none"> 1. Change the configured Clinic identifier to a fictitious value. 2. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I03 HD.I10 |
| 18 | EMR request – Valid EMR identifier and invalid Clinic identifier. | EMR identifier is set to the value provided by Shared Health. | <ol style="list-style-type: none"> 1. Change the configured Clinic identifier to a fictitious value. 2. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I03 HD.I10 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | EXPECTED RESULTS | REQMT. XREF |
|-----|--|---|---|--|--|
| I9 | eHealth_hub does not receive an acknowledgement as part of a logical unit of work. | Messages are in mailbox. | <ol style="list-style-type: none"> 1. EMR checks for and receives results. 2. eHealth_hub simulates network error and does not receive acknowledgement. 3. EMR checks for and receives results. | Messages remain in mailbox after first poll of mailbox. EMR retrieves messages a second time, but recognizes as duplicates and discards. | HD.I05 HD.P01 HD.P02 HD.P03 |
| I10 | EMR cannot be authenticated. | x.509 certificate is invalid. | <ol style="list-style-type: none"> 1. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I10 |
| I11 | EMR cannot be authorized. | Clinic not authorized for results they are requesting in eHealth_hub. | <ol style="list-style-type: none"> 1. EMR attempts to check for results. | EMR notifies EMR administrator and logs error. | HD.I10 |
| I12 | EMR request – Mailbox contains more than 25 results. | EMR polling interval set to 30 minutes. Mailbox has more than 25 messages. | <ol style="list-style-type: none"> 1. EMR receives and processes results. | Mailbox is empty. EMR received all results from mailbox. | HD.I02 HD.I04 HD.I05 HD.I08 HD.I09 |
| I13 | 2 clinics using same EMR instance, if supported by the product. | Two clinics are setup in a single EMR instance. Two corresponding mailboxes setup with result(s) in each mailbox. | <ol style="list-style-type: none"> 1. Initiate polling of mailbox. 2. EMR checks for and retrieves results from the site 1 mailbox. 3. EMR checks for and retrieves results from the site 2 mailbox. | <p>Clinic 1 mailbox is empty. Results in EMR site 1.</p> <p>Clinic 2 mailbox is empty. Results in EMR site 2.</p> | HD.I03 HD.I04 HD.I05 HD.I08 HD.I09 |
| I14 | Enable/disable access to eHealth_hub. | Access to eHealth_hub is enabled and EMR is able to check eHealth_hub mailbox. | <ol style="list-style-type: none"> 1. Disable EMR access to eHealth_hub. 2. Wait for more than the polling interval time. | EMR is no longer trying to access eHealth_hub. | HD.I12 |

2.7.2 Interface

Table 6: Assessment Scenarios – Interface

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|----|--|---|--|--|--|-------------|
| C1 | Matching results with the patient in EMR. | Test provider and patient are available in EMR. The required sample message sets are available having results with matching patient information (PHIN, DOB, gender) to that in the EMR. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Check for new DI result messages. | <u>Source & EMR</u> Patient Name: TESTPATIENT1, MALE PHIN: 955500511 DOB: 1965-04-25 Gender: Male Ordering provider: Dr. Test Provider1 | EMR displays the result associated with the matching patient in the correct patient's chart. Result is not available for matching to a patient's chart manually. | HD.P04 |
| C2 | Unmatched results – PHIN does not match. DOB and gender match. | Test provider and patient are available in EMR. The required sample message sets are available having results with discrepancy in patient information that will cause the failure of matching the patient. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Check for new DI result messages. | <u>Source</u> Patient Name: TESTPATIENT1, MALE PHIN: 955500524 DOB: 1965-04-25 Gender: Male Ordering provider: Dr. Test Provider1 | Result does not appear in patient's chart. Result is available as an unmatched result; and can be matched to a patient's chart manually by viewing result info. | HD.P05 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|----|--|---|--|--|--|-------------|
| C3 | Unmatched results – DOB does not match. PHIN and gender match. | Test provider and patient are available in EMR. The required sample message sets are available having results with discrepancy in patient information that will cause the failure of matching the patient. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Check for new DI result messages. | <u>Source</u> Patient Name: TESTPATIENT1, MALE PHIN: 955500511 DOB: 1964-04-25 Gender: Male Ordering provider: Dr. Test Provider1 | Result does not appear in patient's chart. Result is available as an unmatched result; and can be matched to a patient's chart manually by viewing result info. | HD.P05 |
| C4 | Unmatched results – Gender does not match. PHIN and DOB match. | Test provider and patient are available in EMR. The required sample message sets are available having results with discrepancy in patient information that will cause the failure of matching the patient. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Check for new DI result messages. | <u>Source</u> Patient Name: TESTPATIENT1, MALE PHIN: 955500511 DOB: 1965-04-25 Gender: Female Ordering provider: Dr. Test Provider1 | Result is in EMR unmatched results queue. Result does not appear in patient's chart. Patient info is displayed exactly as it was sent in HL7 message. Result can be matched to a patient's chart manually by viewing result info. | HD.P05 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|----|--|---|---|---|--|-------------|
| C5 | Assigning results for review – matching ordering and 'copied to' providers. | Test providers and patient are available in EMR. The required sample message sets are available having results with matching provider IDs as that of the EMR for the ordering and copied provider. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1; validate expected results. 2. Login to EMR as Dr. Test Provider2; validate expected results. 3. Login to EMR as Dr. Test Provider3; validate expected results. | <p><u>Source</u> Patient Name: TESTPATIENT1, MALE</p> <p>Ordering provider: Dr. Test Provider1 Copied provider: Dr. Test Provider2 Copied provider: Dr. Test Provider3</p> | EMR assigns the result for review to the matching ordering and copied providers. Each provider can now review the result. | HD.P06 |
| C6 | Assigning results for review – not matching ordering or 'copied to' providers. | Test providers and patient are available in EMR. A test clinical support user (eg: clerk) is available in the EMR. The required sample message sets are available having result where the copied providers are at the clinic but their provider IDs sent by the source lab do not match with the EMR. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as clinical support staff user; validate expected results. 2. Login to EMR as Dr. Test Provider98 and Dr. Test Provider97; validate expected results. | <p><u>Source</u> Patient Name: TESTPATIENT1, MALE</p> <p>Ordering provider: Dr. Test Provider99 Provider ID: 9999 Copied provider: Dr. Test Provider98 Provider ID: 9998 Copied provider: Dr. Test Provider97 Provider ID: 9997</p> | Result is not assigned to any providers. Result can be manually assigned to the providers for review by the clinical support staff. Process is in place to manage unmatched records. Dr. Test Provider97 and/or Dr. Test Provider98 can review the results once assigned manually. | HD.P07 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|----|--|---|---|--|---|-------------|
| C7 | Assigning results for review – matching ordering provider, not matching copied providers. | Test providers and patient are available in EMR. The required sample message sets are available having results where provider ID only exists in EMR for ordering provider. One of the copied providers is at the clinic but their provider ID sent by source doesn't match with the EMR. EMR and/or EMR interface has received and processed the results (set 1). | 1. Login to EMR as Dr. Test Provider1; validate expected results. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 Provider ID: 1111 Copied provider: Dr. Test Provider99 Provider ID: 9999 Copied provider: Dr. Test Provider98 Provider ID: 9998 | EMR assigns the result for review to Dr. Test Provider1. EMR matches the result to the patient. Dr. Test Provider98 can see the results in the patient's chart. | HD.P06 |
| C8 | Assigning results for review – not matching ordering provider, matching 'copied to' providers. | Test providers and patient are available in EMR. The required sample message sets are available having results where ordering provider ID is for a different clinic and does not exist in EMR. EMR and/or EMR interface has received and processed the results (set 1). | 1. Login to EMR as Dr. Test Provider1 and Dr. Test Provider2; validate expected results. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider99 Provider ID: 9999 Copied provider: Dr. Test Provider1 Provider ID: 1111 Copied provider: Dr. Test Provider2 Provider ID: 2222 | EMR assigns the result to Dr. Test Provider1 and Dr. Test Provider2 for review. | HD.P06 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|-----|---|---|---|--|--|----------------------------|
| C9 | Same result received twice, second result newer than the first. | Test script C1 is passed. The required sample message sets are available having subsequent result whose sending facility, order number and observation request match preliminary result identifiers and the subsequent result time is greater than the preliminary result time. EMR and/or EMR interface has received and processed the results (set 1). | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Review the original DI result for test patient in EMR. 3. Check for new DI result messages (set 2). 4. EMR receives subsequent results and processes them accordingly. 5. Validate the expected results for the test patient. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Subsequent result replaces original result in EMR. | HD.P01 HD.P02 HD.P03 |
| C10 | Same result received twice, second result older than the first. | EMR and/or EMR interface has received and processed the results (set 1). Test script C1 is passed. The required sample message sets are available in mailbox having subsequent result whose sending facility, order number and observation request match existing result identifiers and the subsequent result time is older than the existing result time. | <ol style="list-style-type: none"> 1. Login to EMR as Dr. Test Provider1. 2. Review the original lab result for test patient in EMR. 3. Check for new DI result messages (set 3). 4. EMR receives results and completes processing. 5. Validate the expected results for the test patient. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Subsequent result does not appear in EMR. Original result remains in EMR. Error/information logged that incoming result was discarded. | HD.P01 HD.P02 HD.P03 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|-----|---|--|---|--|--|----------------------------|
| C11 | Multiple identical results with different identifier. | Test script C9 and C10 are passed. The required sample message sets are available in mailbox having subsequent results whose sending facility and/or order number and/or observation request do not match with the preliminary result. EMR and/or EMR interface has received and processed the results (set 1, 2 & 3). | <ol style="list-style-type: none"> Login to EMR as Dr. Test Provider1. Validate the expected results for the test patient. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Old as well as new results appear in EMR as different results. | HD.P01 |
| C12 | Alert of new results. | EMR and/or EMR interface has received and processed the results (set 1). Test provider and patient are available in EMR. | <ol style="list-style-type: none"> Login to EMR as Dr. Test Provider1. Validate the expected result for test patient. Open / review the new report and validate the expected result. | <u>Source</u> Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | <ol style="list-style-type: none"> EMR displays alert to the provider that there are new results to review. EMR displays date/time when result was received in EMR. Date/time is displayed in proper format. Alert is not available after user has reviewed the report. | HD.D01 HD.D02 HD.D03 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|-----|--|---|--|---|---|----------------------------|
| C13 | Error in HL7 message. | Mailbox contains result that has errors in the HL7 message (base64 decoding error) which would prevent the EMR from being able to process it. | 1. EMR receives results. | | EMR notifies an EMR administrator that it received an erroneous message that it cannot process. Message file available in the mailbox. | HD.I05 HD.I10 |
| C14 | Date/Time format. | EMR and/or EMR interface has received and processed the results (set 1). | 1. Login to EMR as Dr. Test Provider1. 2. Open a set of results for TESTPATIENT1, MALE. | | Time is either 24hr, or indicates AM/PM. Date format is one of the recommended formats, as defined in requirement. Ensure date/time is accurate. | HD.D03 |
| C15 | Different results received out of order. | EMR and/or EMR interface has received and processed the results (set 1). | 1. Validate expected results as Dr. Test Provider1. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | No results should be overwritten. All results should display in proper order (most recent first). Indication is available to access historical results. | HD.D06 HD.D07 HD.D08 |
| C16 | DI report categorization mapping is pre-loaded by default. | The DI report category mapping list is available to the applicant. | 1. Login to EMR as administrator or clinical/EMR support staff. 2. View the DI report category mapping listing screen in the EMR. | Default mapping list is available in the addendum. | DI report category mapping listing matches the default mapping list. | HD.P08 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|-----|---|---|--|---|---|------------------|
| C17 | Display reports in mapped categories. | Test script C16 is passed. EMR and/or EMR interface has received and processed the results. The sample message set has 1 or 2 reports for exam codes that are not mapped to categories. | <ol style="list-style-type: none"> Login to EMR as Dr. Test Provider1; validate expected results. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 Unmapped exam code: TESTEXAM | EMR displays the reports in the folder for Dr. Test Provider1 for review. Reports are available in patient chart within proper categories according to default mapping list. Reports with unmapped exam codes appear as either "other" or unmapped. | HD.P08 HD.D09 |
| C18 | Modify DI report categorization mapping and updated display of reports. | EMR and/or EMR interface has received and processed the results (set 1). Test script C17 is passed. | <ol style="list-style-type: none"> Create a new category "TEST MOD" (code: TM) in EMR. Update mapping for exam code "TESTEXAM" to new category. Update mapping for exam code "ABM" to new category. Rename test category "MRI" to "Magnetic Resonance Imaging". Go to test patient's chart. | Exam code: TESTEXAM Mapped to category: Test Category Patient Name: TESTPATIENT1, MALE | New category appears in patient chart. The reports that were previously unmapped, now appear under the new category. Reports are available within proper categories according to the updated mapping list. | HD.P09 HD.D09 |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS | REQMT. XREF |
|-----|---|--|---|--|--|------------------|
| C19 | Periodic update of DI report categorization mapping. | Test script C17 is passed. Shared Health sends an updated DI report category mapping document to EMR applicant. | <ol style="list-style-type: none"> EMR processes the updated mapping list. Login to EMR as administrator / clinical support staff. View the DI report category mapping listing in the EMR. | Updated mapping list for testing is available in the addendum. | DI report category mapping listing matches the updated mapping list. | HD.P09 |
| C20 | Access permission to update DI report categorization mapping. | Test script C17 is passed. | <ol style="list-style-type: none"> Login to EMR as Dr. Test Provider1; validate expected results. Login to EMR as clinical/EMR support staff; validate expected results. | Not applicable. | Dr. Test Provider1 is not able to update the category mappings. EMR support staff is able to update the category mapping. | HD.P08 HD.P09 |

2.7.3 Source

Table 7: Assessment Scenarios – Source

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS |
|----|--------------------------|--------------|--|---|----------------------------------|
| D1 | Validated signed report. | None. | <ol style="list-style-type: none"> Source sends DI report result. EMR receives result. Review result. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Result appears in patient chart. |

| ID | DESCRIPTION | PRECONDITION | SCRIPT | TEST DATA | EXPECTED RESULTS |
|----|--|---|--|---|---|
| D2 | Unprocessed and edited signed report, and revalidated. | None. | <ol style="list-style-type: none"> 1. Source sends DI report result. 2. EMR receives result. 3. Review result. 4. Source sends edited and revalidated results. 5. EMR receives result. 6. Review new result. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Edited and revalidated report appears in patient chart. Indication in the EMR that the report is an edited version. |
| D3 | Added and validated an addendum. | Previous DI report in EMR. | <ol style="list-style-type: none"> 1. Source sends addendum. 2. EMR receives addendum. 3. Review addendum. 4. Open patient chart. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Addendum report (appended to original report) appears in patient's chart. |
| D4 | Added and validated a second addendum. | Previous DI report and addendum in EMR. | <ol style="list-style-type: none"> 1. Source sends a second addendum. 2. EMR receives addendum. 3. Review addendum. 4. Open patient chart. | Patient Name: TESTPATIENT1, MALE Ordering provider: Dr. Test Provider1 | Second addendum report (appended to first addendum and original report) appears in patient's chart. |
| D5 | Modalities. | None. | <ol style="list-style-type: none"> 1. Source sends results for each modality. 2. EMR receives results. | XR FL US CT MR NM AN MA PET | Results appear categorized for each modality, as defined in the DI report categorization list. |

1 Appendix A: Assertions

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_EHDID_EMR-PRODUCT-NAME.pdf.
4. Submit the completed Assertion document to EMR@sharedhealthmb.ca.

Table 8: Assertions

| | | |
|---|--|--|
| ORGANIZATION NAME | | |
| EMR PRODUCT NAME | | |
| ID | | ASSERTION |
| HD.I06 | | <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 - Diagnostic Imaging Report Result Distribution Interface Assessment Guide)

3 Appendix B: Release Notes

Version 1.0 December 1, 2015

- Updated name of service from earlier “DDS” or “CID” or “Health_Hub” to “eHealth_hub”.
- Section 1.5: References
 - Updated version number on reference documents.
 - Added reference to eHealth_hub Assessment Information Addendum.
- Section 2.1: Example Errors
 - Moved the error codes to requirements specifications.
- Section 3.2: Certification Environment
 - Moved the testing message replay tool information from Assessment Information addendum to assessment guide. Added as a new sub-section 3.2.1.
 - Created section 3.2.1.2 detailing information on request parameters for the replay tool.
 - Removed table for Test EMR IDs and Test Clinic IDs from sub-section 3.2.2; and added reference to Assessment Information addendum.
- Section 3.4: Applicant Assertions
 - Added a new section to allow applicants to submit their assertion for the relevant requirements.
- Section 3.6: Test Scripts
 - Updated “steps” under test scripts – C9, C10 and C11. Removed the details of the process requirements, since they are clearly mentioned in the Requirements document.
 - Updated the requirement references for all test scripts to match with the requirements table in the Requirements specification (AD 1).
 - Added new test scripts C16, C17, C18, C19 and C20 for DI Report Categorization.
 - Updated the script for C18.
- Section 5: Use Cases (erstwhile)
 - Moved use-cases to the requirements specification (AD 1) and removed from assessment guide.

Version 1.2 February 15, 2016

- Defined additional test patients for certification environment, under sub-section 3.2.3.

Version 1.3 September 29, 2016

- Updated test patients on test scripts C13, C15, C16, C17 and C18

Version 1.4 March 31, 2020

- 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
- Updated Related Documents:

- Removed Document IDs throughout document
- Added Manitoba EMR Certification - Baseline EMR Requirements Specification
- Added eHealth_hub – Authentication Specification
- Updated Assertions Appendix
 - Added eHealth_hub - Authentication Specification - AUTH-004
- Added table references to all tables
- Removed previous Section 1 Overview description
- Removed previous Section Diagnostic Imaging Reports Result Distribution Interface Objectives
- Removed previous Section 1.3 Intended Audience
- Removed previous Section 1.4 Acronyms
- Removed previous descriptions under Section 3 Assessment and Section 3.1 Assumption; replaced with current Section 2.1 Preparing for Product Assessment
- Updated all references from "eHealth_hub Assessment Information Addendum (AD3)" to "addendum" in Section 2.7 Assessment Scenarios