EMR Certification

eChart Manitoba Context-Sensitive Launch Interface Specification

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Version 2.0

Shared **health**
Soins communs
Manitoba

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1   Introduction

The purpose of this document is to provide an overview of the eChart Manitoba Context-Sensitive Launch Interface (hereafter referred to as the "eChart Manitoba Launch"). The document will describe the high-level architecture of the data submission model, as well as the technical details and requirements regarding the web service and web service security.

1.1   Glossary

The following defines key business terms and acronyms used throughout this document.

Table 1: Terms and Acronyms

TERM OR ACRONYM	DEFINITION
Client	A client is an individual seeking and receiving health-care services. May be interchanged with term "patient".
eChart Manitoba	A provincial, client centric record of key health information about an individual over a long time period, not a detailed record of care, which complements point of care systems and is dependent on information from existing electronic sources.
Manitoba Certified EMR Product (EMR)	An Electronic Medical Record product that has achieved Certification in Manitoba and is referred to throughout this document as "EMR".
Shared EMR	An EMR instance that is used by more than one clinic. For example, in a regional shared instance, many clinics, including primary care clinics, may 'share' information. The user configurations can vary, but commonly client information is shared (accessed and/or updated) by users across the entire instance.

1.2   Business Objectives & Benefits Summary

eChart Manitoba is Manitoba's Electronic Health Record (EHR) which provides a record of key health information to authorized health-care providers when needed, by connecting the information from various existing disparate systems in Manitoba. Shared Health provides an interface which enables EMR products to launch the appropriate eChart Manitoba patient-context view directly from their EMR. The objective of this interface is to allow clinicians secure and authorized access to a broader set of key health information for their patients improving the quality and timeliness of patient care and providing flexibility in definition of new health-care delivery processes and models.

1.3   Related Documents

This document references the following companion documents:

Table 2: Related Documents

DOCUMENT
Manitoba EMR Certification – Baseline EMR Requirements Specification
eChart Manitoba Context-Sensitive Launch Interface Assessment Guide
eChart Manitoba Context-Sensitive Launch 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 configuration and details necessary for assessment.

2   eChart Manitoba Launch Overview

The following diagrams introduce the overall context for the integration between the EMR and the eChart Manitoba application and the two primary types of network connectivity.

This section establishes the general context and data flow and is not intended to be specific to any implementation approach. Though there can be various implementation variations, a generic eChart Manitoba authentication process flow using the single sign-on interface is:

1. The EMR User, through their EMR, makes a request for patient information to eChart Manitoba.

2. The EMR User's eChart Manitoba credentials are authenticated for network and eChart Manitoba access.

3. After authenticating the credentials, the single sign-on service retrieves the authentication artifacts.

4. The single sign-on service uses the retrieved authentication artifacts to sign-on to the eChart Manitoba application and validates the eChart Manitoba security group assigned to the user. In addition to the eChart Manitoba user credential information, the EMR request also includes patient search and eChart Manitoba configuration information forwarded as part of the request through the single sign-on service to eChart Manitoba.

5. eChart Manitoba responds to the request and returns the appropriate page for display by the EMR User's web browser.

2.1 EMR Access to eChart Manitoba from a Semi-Trusted Network

The Shared Health security policy mandates that systems accessing eChart Manitoba from semi-trusted networks such as the Manitoba Network are only required to provide a username and password to access the eChart Manitoba application. Manitoba Network is a Government contracted private network designed for healthcare facilities that are supported and operated by Manitoba's Health Authorities.

Figure 1 below describes this "simple authentication" access.
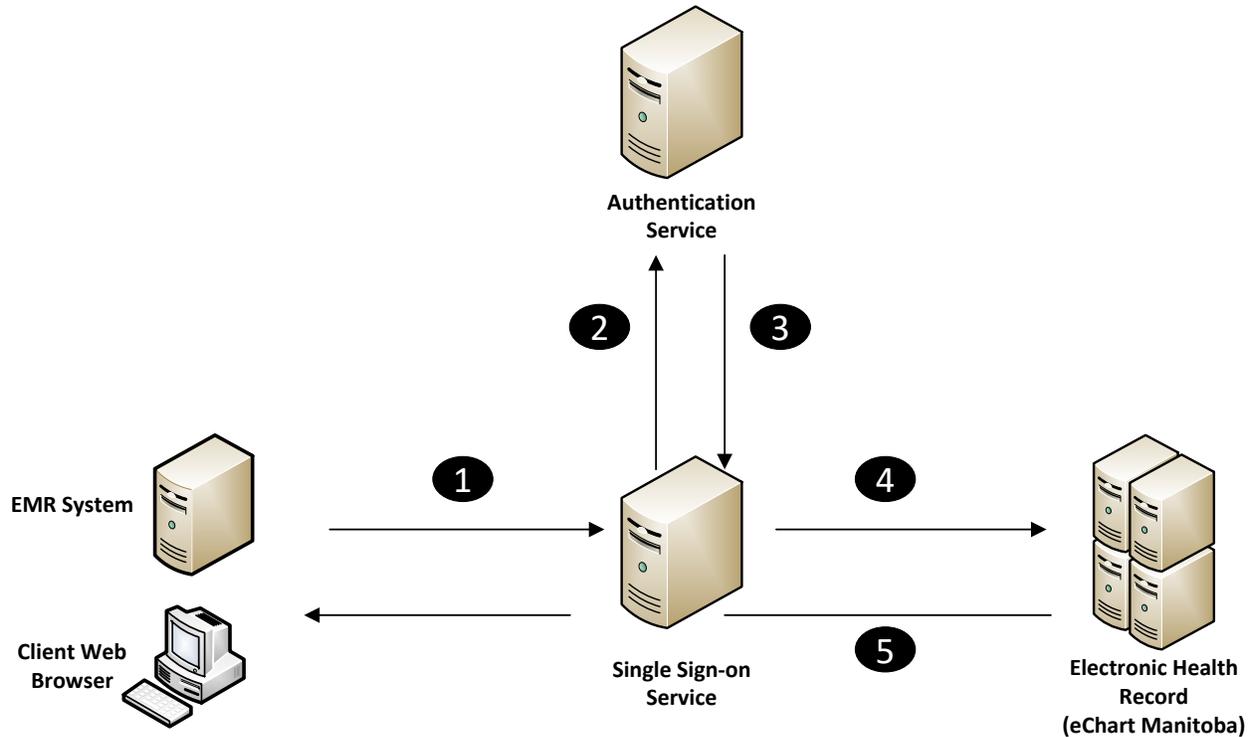
Figure 1: Simple Authentication and eChart Manitoba Access

2.2   EMR Access to eChart Manitoba from an Untrusted Network

Shared Health's security policy mandates that EMR installations accessing the eChart Manitoba application from untrusted networks such as the Internet are required to be setup through a secure firewalled virtual private network (VPN) connection with Shared Health (known as the Private Health Access Network, or PHAN, connection) in order to access eChart Manitoba. A PHAN connection enables the private health care facility to access a specific Shared Health application service. The private healthcare facility is responsible for the equipment, configurations, and costs to set up the PHAN connectivity, using configuration settings provided by Shared Health. Some private healthcare facilities may subscribe to a shared EMR instance. The PHAN connection would be required for only the shared EMR instance.

This scenario is identical to the "simple authentication access" except for the addition of a reverse proxy and a trusted VPN connection.

Figure 2 below describes this "untrusted network" access.

Figure 2: eChart Manitoba Access from Untrusted Network

3 Use Cases

The use cases in this section describe functionality required of the EMR product. They are supported by the requirements detailed in this specification.

Figure 3: High-Level Use Cases

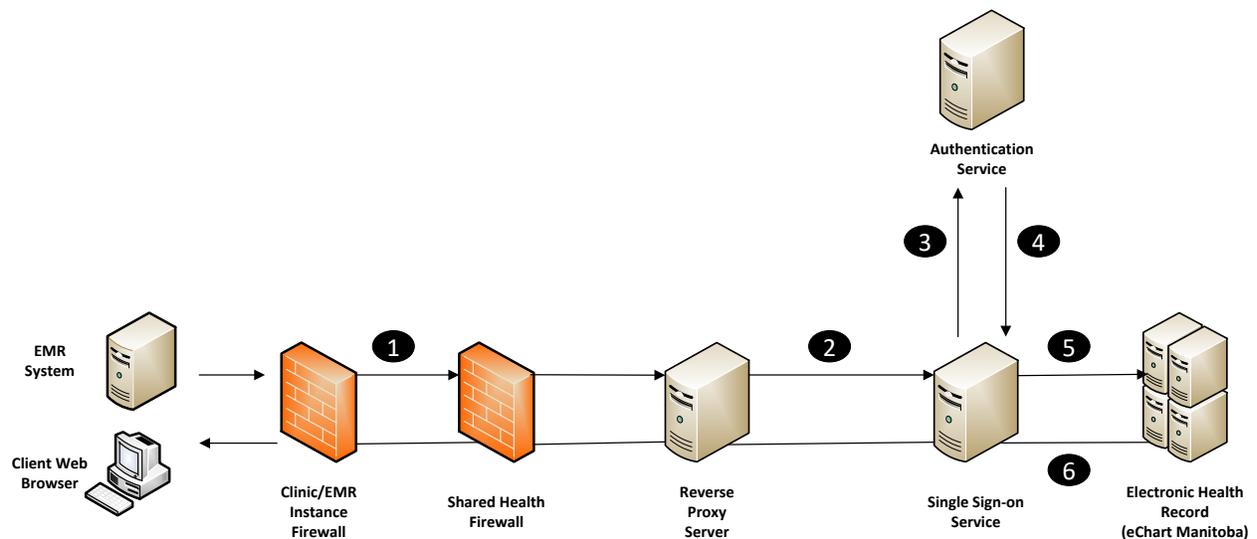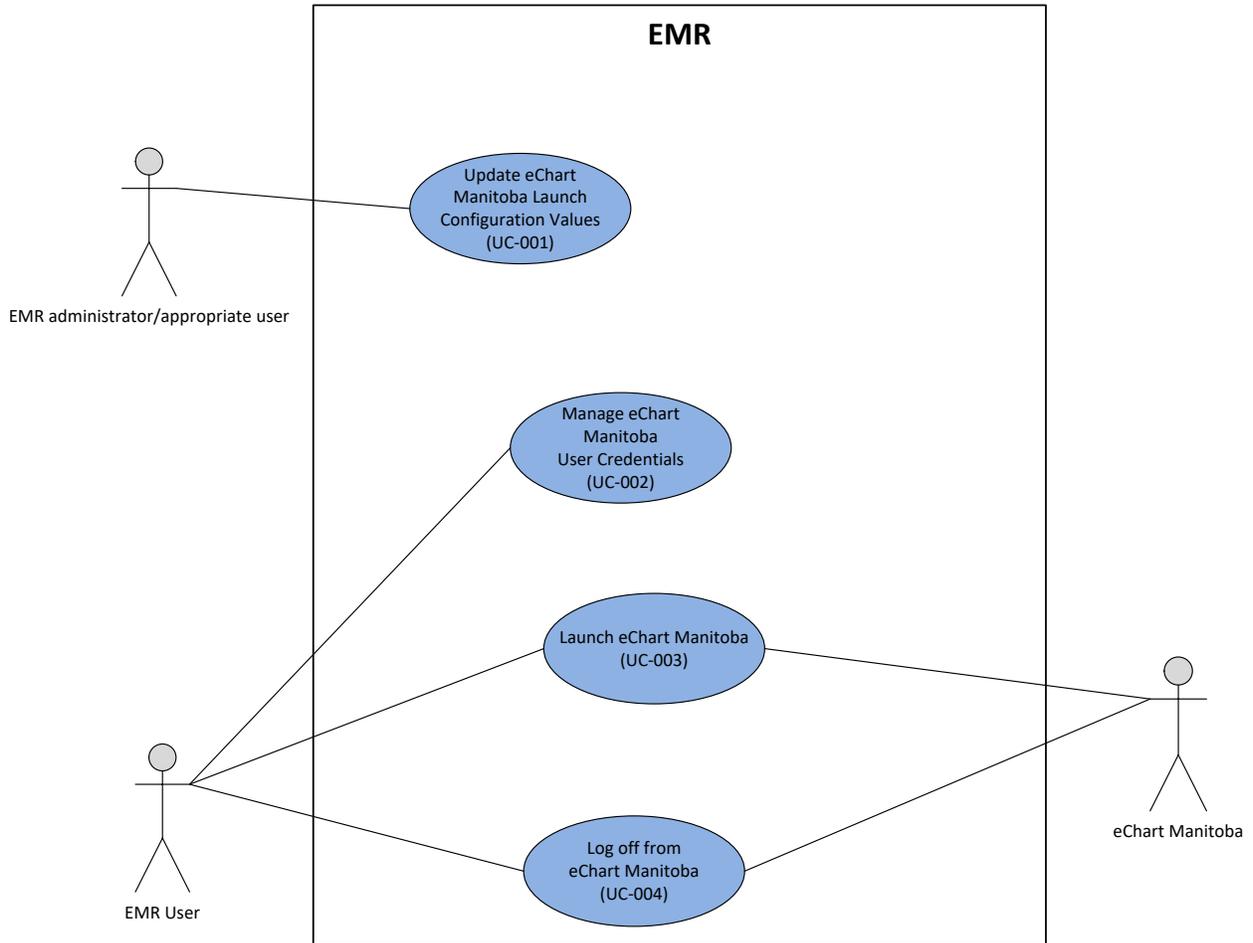## 3.1 Update eChart Manitoba Launch Configuration Values (UC-001)

This use case describes functionality to update the eChart Manitoba Launch configuration values.

PRIMARY ACTORS
• EMR • EMR administrator/appropriate user
TRIGGER(S)
• EMR administrator/appropriate user wishes to update the eChart Manitoba Launch configuration values
PRE-CONDITIONS / INPUTS
• EMR contains configurable eChart Manitoba Launch configuration values
POST-CONDITIONS / OUTPUTS
• EMR maintains the state of the eChart Manitoba Launch configuration values
MAIN SUCCESS SCENARIO (BASIC FLOW)
1. EMR administrator/appropriate user enters the eChart Manitoba Launch configuration values. 2. EMR saves the eChart Manitoba Launch configuration values.

3.2 Manage eChart Manitoba User Credentials (UC-002)

This use case describes functionality to manage the eChart Manitoba user credentials.

PRIMARY ACTORS
• EMR • EMR User
TRIGGER(S)
• EMR User wishes to update their eChart Manitoba user credentials
PRE-CONDITIONS / INPUTS
• EMR contains configurable eChart Manitoba user credentials management functionality
POST-CONDITIONS / OUTPUTS
• EMR maintains the state of the EMR User's eChart Manitoba user credentials
MAIN SUCCESS SCENARIO (BASIC FLOW)
1. EMR User accesses the appropriate eChart Manitoba user credentials management function in the EMR. 2. EMR displays the EMR User's eChart Manitoba user credentials.

3. EMR User updates their eChart Manitoba user credentials.

4. EMR saves the EMR User's eChart Manitoba user credentials.

3.3 Launch eChart Manitoba (UC-003)

This use case describes the functionality to launch eChart Manitoba with a patient in context from within the EMR.

PRIMARY ACTORS
• eChart Manitoba • EMR • EMR User
TRIGGER(S)
• EMR User wishes to access a patient's eChart Manitoba record
PRE-CONDITIONS / INPUTS
• EMR contains eChart Manitoba Launch Configuration Values • EMR contains EMR User's eChart Manitoba user credentials • EMR User has authenticated and is signed into the EMR
POST-CONDITIONS / OUTPUTS
• eChart Manitoba response is presented to the EMR User
MAIN SUCCESS SCENARIO (BASIC FLOW)

1. EMR User triggers an eChart Manitoba Launch operation with a patient in context.
 	
2. EMR sends a request to the eChart Manitoba Launch interface with the required parameters.
 	
3. eChart Manitoba:
   a. Authenticates user credentials.
   b. Performs a patient search.
   c. Displays the Category View for the patient.

EXCEPTION FLOWS
E1 – EMR does not contain all demographic attributes required for patient search in the launch, or patient is not available in eChart Manitoba *Start Exception Flow at:* • *Basic Flow – After Step 3b* 1. eChart Manitoba displays the matching search results on the Search Results page. **E2 – EMR User's eChart Manitoba user credentials are not successfully authenticated in eChart Manitoba** *Start Exception Flow at:*

- *Basic Flow – After Step 3a*
1. eChart Manitoba presents error to EMR User.
2. EMR User:
   a. Closes the eChart Manitoba error page.
   b. Returns to the EMR.
   c. Updates their eChart Manitoba user credentials (Follow Manage eChart Manitoba User Credentials (UC-002)).
3. Rejoin Basic Flow at Step 1.

E3 – EMR User's access role associated with their eChart Manitoba user credentials are not successfully validated
Start Exception Flow at:
- *Basic Flow – After Step 3a*
1. eChart Manitoba presents an "Access Denied" error page.
2. EMR User:
   a. Closes the eChart Manitoba "Access Denied" error page.
   b. Returns to EMR.

E4 – EMR User's eChart Manitoba password expired since last eChart Manitoba Launch
Start Exception Flow at:
- *Basic Flow – After Step 3a*
1. eChart Manitoba presents the default eChart Manitoba login page to user, with the password error and link to change password.
2. EMR User:
   a. Follows eChart Manitoba change password link and updates password.
   b. Returns to EMR.
   c. Updates the eChart Manitoba user credentials within EMR (Follow Manage eChart Manitoba User Credentials (UC-002)).
3. Rejoin Basic Flow at Step 1.

3.4 Log off from eChart Manitoba (UC-004)

This use case describes the functionality to execute a log off from eChart Manitoba.

PRIMARY ACTORS
- eChart Manitoba   - EMR   - EMR User
TRIGGER(S)
An action occurs which requires an eChart Manitoba logout request
PRE-CONDITIONS / INPUTS

• EMR User has authenticated and is signed into the EMR • EMR User has successfully executed an eChart Manitoba Launch	
POST-CONDITIONS / OUTPUTS	
• EMR User is signed out of eChart	
MAIN SUCCESS SCENARIO (BASIC FLOW)	
1. EMR calls the eChart Manitoba Logout URL.	

4 Requirements

This section includes mandatory requirements and guidelines for configuring the launch capability to eChart Manitoba in the EMR. **All requirements listed are mandatory**.

4.1 Requirement Column Definition

For ease of review and understanding, requirements are documented in a manner consistent with previous EMR Certification documentation. For each requirement, the following information is provided:

- **ID** – a unique identifier assigned to the requirement by Manitoba.
- **Requirement** – a concise statement describing the requirement.
- **Guidelines** – these additional instructions constitute part of the requirement and are relevant to implementation of the requirement in the EMR product. As such, these guidelines form part of the assessment criteria and are included in the planned product assessment.
- **Additional Notes** – relevant information or examples intended to give additional context to the requirement and to improve understanding.
- **Status** – each requirement is clearly identified as:
  - New (not included in previous specifications);
  - Updated (modification to intent of the requirement from a previous version);
  - Previous (unchanged from last issuance of core requirements); or
  - Retired (no longer part of specification).
- **Assessment** – The method of assessment is stated in the "Assessment" column for each requirement. All requirements will be assessed using the following method:
  - Demonstration – Vendors will demonstrate key functions within their EMR product. Demonstrations may be conducted in person, by remote means (e.g. teleconference and Internet) or through recorded video.
  - System Integration Testing – this most comprehensive assessment method requires an end-to-end test of key functions such as interoperability between the EMR product and other systems (e.g. eChart Manitoba Launch or eHealth_hub).

4.2   Interface Requirements

Table 3: Interface Requirements

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
EC.I01	Provides the parameters using HTTP POST submissions.	Only HTTP POST actions will be accepted from the EMR. Parameters must not be passed within the context of the URL string (i.e. a HTTP GET).		Previous	System Integration Testing
EC.I02	Provides the ability to make an eChart Manitoba Launch request only when a patient is in context in the EMR.			Updated	System Integration Testing
EC.I03	Allows an EMR User to save their eChart Manitoba username and password in the EMR.		See 4.3 – Security Requirements for storing the user eChart Manitoba credentials within the EMR.	Updated	System Integration Testing
EC.I04	Sends the user authentication parameters for all eChart Manitoba Launch requests.	The EMR must send all parameters listed in 5.1 – User Authentication Parameters.	These parameters are specific to each EMR User who launches into eChart Manitoba. The credentials for these parameters are provided as unique by Shared Health to each eChart Manitoba user. If values to these parameters are not provided by the EMR, eChart Manitoba will prompt the user to enter them.	Updated	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
EC.I05	Sends the system parameters for all eChart Manitoba Launch requests.	The EMR must send all parameters listed in 5.2 – eChart Manitoba Configuration Parameters.		Updated	System Integration Testing
~~EC.I06~~	~~Sends the following eChart launch configuration parameters during all eChart launch interface requests:~~ • ~~Target~~ • ~~pageTarget~~ • ~~externalMode~~ • ~~clinicalViewMode~~	~~These parameters are explained in detail, with their default values, under 5.2 – eChart Configuration Parameters.~~	~~These parameters are specific to each EMR product which provides the eChart launch functionality.~~	Retired	System Integration Testing
EC.I07	Provides the ability to send the patient identification parameters for all eChart Manitoba Launch requests where the patient in context has a Manitoba PHIN.	For patients who have a Manitoba PHIN the EMR must send the below parameters: • GNAME • FNAME • GEN • PHIN • BTHDAY	See 5.3 – Patient Identification Parameters for a detailed description of the parameters. These parameters are specific to each patient that is in context within EMR by the EMR User. If a value for any parameter is not available within the EMR, then that value may be sent as a blank.	Updated	System Integration Testing
EC.I08	Provides the ability to send the patient identification parameters for all eChart Manitoba Launch requests where the patient in context does not have a Manitoba PHIN or is insured by	For patients that do not have a Manitoba PHIN or are insured by a jurisdiction other than Manitoba the EMR must send the below parameters: • HealthCareNumber	See 5.3 – Patient Identification Parameters for a detailed description of the parameters. These parameters are	Updated	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
	a jurisdiction other than Manitoba.	• HealthCareNumberAuthority • GNAME • FNAME • GEN • BTHDAY When HealthCareNumber is specified, then HealthCareNumberAuthority must also be specified and vice-versa.	specific to each patient that is in context within EMR by the EMR User. If a value for any parameter is not available within the EMR, then that value may be sent as a blank.		
EC.I09	Maintains configurable values for the system parameters at an EMR instance level.	The EMR maintains configurable values for all parameters listed in 5.2 – eChart Manitoba Configuration Parameters. The default value for "archived" must be set to "N" The "clientApplicationID" value is required to be set for all EMRs using the eChart Manitoba Launch.		Updated	System Integration Testing
EC.I10	Maintains the following configurable values and uses them to invoke the respective eChart Manitoba Launch requests: • eChart Manitoba Launch Request URL • eChart Manitoba Logout		See 5.4 - EMR Request and Logout URL for details. The possible values for these URLs may change depending on the environment being accessed (production, test,	Updated	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
	URL		etc.).		
EC.I11	Provides connectivity to eChart Manitoba via both semi-trusted and untrusted networks.		The connectivity scenarios for the semi-trusted and untrusted networks are described in 2 – eChart Manitoba Launch Overview.	Updated	System Integration Testing
EC.I12	Maintains a single eChart Manitoba user session during an EMR session.			New	System Integration Testing

4.3   Security Requirements

This table describes security requirements applicable to the EMR to eChart Manitoba Launch interface only, and does not address security requirements applicable to the security of the EMR product.

Table 4: Security Requirements

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
EC.S01	~~Requires eChart specific username, and password for authenticating to eChart.~~		~~Shared Health provides the username and password to each user who is authorized to access eChart Manitoba which are also required by the eChart Context-Sensitive Launch interface.~~ ~~Shared Health also assigns relevant security group(s) to each authorized user of eChart, which is verified in the single-sign-on process.~~ ~~The EMR user will be presented error" screen if they have valid Shared~~	Retired	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
			~~Health credentials, but not a valid security group in eChart.~~		
EC.S02	Stores the eChart Manitoba username and password in encrypted format.	The EMR must use a FIP140-2 compliant encryption module that is configured to use the Advanced Encryption Standard (AES) encryption algorithm (FIPS 197) to protect eChart Manitoba authentication credentials stored locally within the EMR.		Previous	Demonstration
~~EC.S03~~	~~Allows the EMR user to update the stored eChart username and password through a graphical user interface within the EMR.~~	~~The EMR user can update their eChart password through the Shared Health Service Desk. The user must be able to update the stored eChart password in the EMR on demand.~~		Retired	System Integration Testing
EC.S04	Deletes all session tokens and cache files when a browser session to eChart Manitoba is closed.	EMR must delete all session tokens or temporary cache files (that are created by the EMR during the eChart Manitoba Launch), as soon as the EMR User closes the session to eChart Manitoba .		Previous	System Integration Testing
EC.S05	Invokes a request to eChart Manitoba logout URL.	If an eChart Manitoba Launch request was made during an EMR session, then the EMR must invoke a request to the eChart Manitoba logout URL for any of the below events: • EMR lock		Updated	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
		• EMR User logout • End of EMR session • Timeout of EMR session • Different EMR User logs into the EMR on the same machine It is acceptable to invoke a request to the eChart Manitoba Logout URL once if more than one of the above events occur after a previous eChart Manitoba Launch request.			

4.4 Browser Requirements

Table 5: Browser Requirements

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT

EC.B01	Supports a required browser.	eChart Manitoba supports the following browsers:
		• Google Chrome
		• Microsoft Edge (Chromium)
		• Safari
			eChart Manitoba supports the below browsers on the specified operating systems:
			• Google Chrome and Microsoft Edge (Chromium)
			  o Windows 8.1
			  o Windows 10
			• Safari
			  o macOS
			
			Other combinations of operating systems and browsers will not be
				Updated	System Integration Testing

ID	REQUIREMENT	GUIDELINES	ADDITIONAL NOTES	STATUS	ASSESSMENT
			supported by eChart Manitoba. It is recommended that the latest version of the browsers listed be used or be planned in next upgrade by EMR Vendors as support for older versions change frequently.		
~~EC.B02~~	~~Supports the required browser versions in compatibility mode.~~	~~The current version of eChart Manitoba supports the following browsers with compatibility mode turned on: Microsoft Internet Explorer version 10.0 and 11.0~~	~~Compatibility URLs for browser configuration can be made available upon request.~~	Retired	System Integration Testing
~~EC.B03~~	~~Supports the Adobe Reader and Adobe PDF browser extensions.~~			Retired	System Integration Testing

5   Appendix A: Interface Information

Implementing HTTP interfaces to launch web applications is familiar to the Manitoba Certified EMR product vendor community.

EMRs can access eChart Manitoba through an HTTP POST interface.

The data supplied through this interface supports the following types of parameters:
- User authentication
- eChart Manitoba configuration
- Patient identification

The following section describes the requirements and data supported by each of these classifications and includes samples of their use in an HTTP POST request.
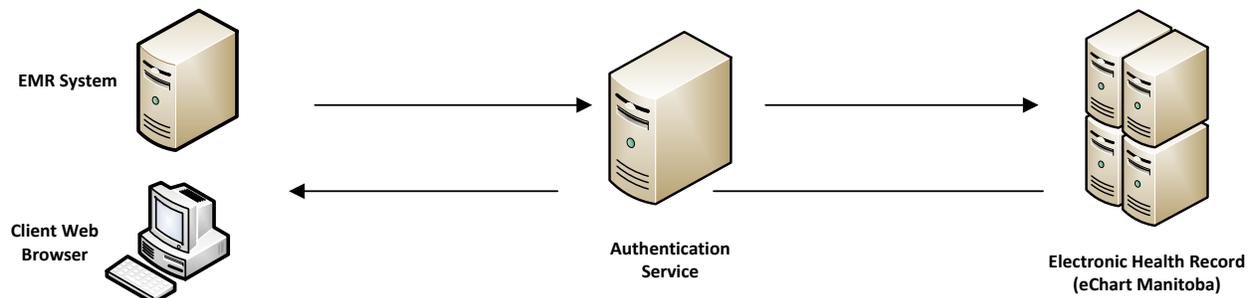
Figure 4: HTTP POST request

5.1   User Authentication Parameters

The following table summarizes the user authentication parameters that the:

- EMR User must be able to update in their EMR

- eChart Manitoba Launch interface will require

Table 6: User Authentication Parameters

NAME	DESCRIPTION	SUGGESTED VALUE
username	The eChart Manitoba username of the EMR User to authenticate.	
password	The eChart Manitoba password of the EMR User to authenticate.	

5.2 eChart Manitoba Configuration Parameters

The following table summarizes the eChart Manitoba configuration parameters that the eChart Manitoba Launch interface will require.

Table 7: eChart Manitoba Configuration Parameters

NAME	DESCRIPTION	SUGGESTED VALUE
Domain	The Shared Health domain used for managing eChart Manitoba user accounts.	Provided in the addendum.
clientApplicationID	The unique identifier of the application or EMR instance that invoked the interface.	Shared Health has a naming scheme and process for receiving a clientApplicationID from either the application or EMR instance level.
archived	Obsolete patient demographics may be hidden in the Manitoba Client Registry through an archival process. This parameter includes or excludes records that have been archived.	Y – include archived members N – do not include Default must be configurable in EMR and set to "N"

5.3 Patient Identification Parameters

The following table summarizes the supported eChart Manitoba patient search parameters.

Table 8: Patient Identification Parameters

NAME	DESCRIPTION	SUGGESTED VALUE
BTHDAY	Equivalent to the **Date of Birth** field in eChart Manitoba.	yyyy-mm-dd
GNAME	Equivalent to the **Given Name** field in eChart Manitoba. Case-insensitive.	
FNAME	Equivalent to the **Family Name** field in eChart Manitoba. Case-insensitive.	
GEN	Equivalent to the **Gender** field in eChart Manitoba.	
PHIN	Equivalent to the **PHIN** field in eChart Manitoba.	nnnnnnnnn

HealthCareNumber	Equivalent to **Health Care #** field in eChart Manitoba.	Formats vary by jurisdiction.
HealthCareNumberAuthority	A case-sensitive code for a provincial, territorial, or federal assigning authority.	See Appendix B – Provincial and Federal Authority Parameters.

SAMPLE DATA

The following shows sample data for all available parameters for EMRs username, password, and Domain would also be provided by the EMR. This example will not be a valid request as PHIN and Health Care Number parameters cannot be specified together and because user authentication and some of eChart Manitoba configuration information is also not included. For more examples, see 5.5 – Example Patient Searches.

```
clientApplicationId=PC-EMR-0
FNAME=PATIENT
GNAME=TEST
PHIN=900000000
GEN=F
BTHDAY=2001-01-01
HealthCareNumber=HCN_VALUE
HealthCareNumberAuthority=HCNA_VALUE
archived=N
```

5.4   EMR Request and Logout URL

These parameters must be passed to an HTTP service at a request URL. The request URL format is:

```
https://<AppServer>/ExampleLaunch

https://<AppServer>/ExampleLogout
```

The value of the URL also depends on the environment being accessed (production, test, etc.). The values for actual URLs are provided to the EMR applicants during the assessment via an assessment addendum, as listed in 1.3 – Related Documents.

5.5   Example Patient Searches

These examples show the parameters necessary for a given search excluding user authentication parameters. Examples also include the sample HTML to create the POST requests.

All searches assume a request URL of `https://<AppServer>/ExampleLaunch` and is abbreviated to the following for the HTTP examples `/ExampleLaunch`

Search by PHIN

5.5.1.1   Criteria
```
clientApplicationId=PC-EMR-0
PHIN=900000000
archived=N
```

5.5.1.2   HTML
```html
<form action="/ExampleLaunch" method="POST" >
    <input type="text" name="clientApplicationId" value="PC-EMR-0" >
    <input type="text" name="PHIN" value="9000000000" >
    <input type="text" name="archived" value="N" >
</form>
```

Search by all required patient demographic parameters

This example is the most recommended implementation for EMRs.

5.5.1.3   Criteria
```
clientApplicationId=PC-EMR-0
FNAME=PATIENT
GNAME=TEST
PHIN=900000000
GEN=F
BTHDAY=2001-01-01
archived=N
```

5.5.1.4   HTML
```html
<form action="/ExampleLaunch" method="POST" >
    <input type="text" name="clientApplicationId" value="PC-EMR-0" >
    <input type="text" name="GNAME" value="TEST">
    <input type="text" name="FNAME" value="PATIENT">
    <input type="text" name="PHIN" value="9000000000" >
    <input type="text" name="BTHDAY" value="2001-01-01">
    <input type="text" name="GEN" value="F">
    <input type="text" name="archived" value="N" >
</form>
```

Search by Other Jurisdictional Identifiers

The EMR User may sometimes record the other jurisdictional identifiers for the patient. This example demonstrates the parameters to be sent for such patients.

5.5.1.5   Criteria
```
clientApplicationId=PC-EMR-0
GNAME=TEST
FNAME=PATIENT
GEN=F
BTHDAY=2001-01-01
HealthCareNumber=123456
HealthCareNumberAuthority=ID_CF
archived=N
```

5.5.1.6   HTML
```html
<form action="/ExampleLaunch" method="POST" >
    <input type="text" name="clientApplicationId" value="PC-EMR-0" >
    <input type="text" name="GNAME" value="TEST">
```

```
        <input type="text" name="FNAME" value="PATIENT">
        <input type="text" name="BTHDAY" value="2001-01-01">
        <input type="text" name="GEN" value="F">
        <input type="text" name="HealthCareNumber" value="123456">
        <input type="text" name="HealthCareNumberAuthority" value="ID_CF">
        <input type="text" name="archived" value="N" >
</form>
```

6   Appendix B: Provincial and Federal Authority Parameters

Table 9: Provincial and Federal Authority Parameters

PARAMETER VALUE	AUTHORITY NAME
ID_ABPHN	Alberta Personal Health Number
ID_BCPHN	British Columbia Personal Health Number
ID_CC	Cancer Care Manitoba
ID_CF	Canadian Forces
ID_NBMN	New Brunswick Medicare Number
ID_NLMSN	Newfoundland & Labrador Med Services Number
ID_NSMSN	Nova Scotia Med Services Number
ID_NTHCN	Northwest Territories Health Care Number
ID_NUHCN	Nunavut Health Care Number
ID_ONHCN	Ontario Health Care Number
ID_PEHCN	Prince Edward Island Health Care Number
ID_QCHCN	Quebec Health Care Number
ID_RCMP	RCMP Regiment Number
ID_SKHSN	Saskatchewan Health Services Number
ID_YTHCN	Yukon Health Care Number

7 Appendix C: Use Case to Requirement Traceability

Table 10: Use Case to Requirement Traceability Matrix

Rqmt ID	UC-001 Update eChart Manitoba Launch Configuration Values	UC-002 Manage eChart Manitoba User Credentials	UC-003 Launch eChart Manitoba	UC-004 Log off from eChart Manitoba	Totals
EC.I01			X		1
EC.I02			X		1
EC.I03		X	X		2
EC.I04			X		1
EC.I05			X		1
EC.I07			X		1
EC.I08			X		1
EC.I09	X		X		2
EC.I10	X		X	X	3
EC.I11			X		1
EC.I12			X		1
EC.S02		X	X		2
EC.S04				X	1
EC.S05				X	1
EC.B01			X		1
Totals	**2**	**2**	**13**	**3**	**20**

8   Appendix D: Release Notes

Version 1.0 December 1, 2015

- Updated eChart Context-Sensitive Launch Interface Objectives (section 1.1) to reflect the current state and objectives of the eChart service and launch interface.

- Added References (section 1.5)

- Updated the EMR System Access to eChart from Untrusted Network (section 2.2) to reflect the current state of connectivity. Earlier version of released document reflected the architecture using RSA SecurID Key, whereas the connectivity is now done using point to point VPN.

- Replaced the use-cases in section 2.3 from the eChart Context Sensitive Launch Assessment Guide.

- Create a tabular format for the requirements; under the new section #3.

- Updated requirements:

  - Updated requirement EC.I09. "clientApplicationId" is a mandatory parameter for each EMR instance, with no default value.

  - Updated requirement EC.S04. EMR must not allow saving the eChart credentials for an EMR users that are already saved in the EMR for another EMR user at same clinic.

- Retained the patient search requirements and default values for eChart configuration parameters that are relevant to EMRs only. Removed the other requirements that are relevant to EPR to eChart context sensitive launch interface.

- Removed redundant sections and repeated information after converting them to requirements. Impacted sections include section 2.2, 2.3, 4 and 5.

- Moved the applicable browsers information to the eChart Context Sensitive Launch Assessment Guide.

Version 1.1 September 12, 2016

- Updated guideline for EC.S03.

- Removed guideline for requirement EC.B03.

- Removed the requirement "Stores eChart credentials for a specific EMR user and unique across all EMR users at a clinic." (old EC.S04); and renumbered the following security requirements.

Version 1.4 March 31, 2020

- Skipped Versions 1.2 and 1.3 to align version number with Assessment Guide.

- 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 the additional notes of browser requirement EC.B01 and EC.B02 from the content previously located in the Assessment Guide, with the removal of Microsoft Internet Explorer versions 7.0 and 8.0.

- Added Appendix C: Use Case to Requirement Traceability and re-indexed appendices.

Version 2.0 March 3, 2022

- Updated document to use "eChart Manitoba" throughout
- Updated Section 1.3: Related Documents
    - Added a reference to the eChart Manitoba Context-Sensitive Launch Interface Assessment Addendum
- Updated Section 2: eChart Manitoba Launch Overview
    - Updated process flow step 1 to include patient information
- Updated Section 3: Use Cases
    - Added Use Cases diagram
    - Added new use cases
        - Update eChart Manitoba Launch Configuration Values (UC-001)
        - Manage eChart Manitoba User Credentials (UC-002)
    - Updated previous use cases and IDs
        - Launch eChart Manitoba
            - From (BC-RD-001) to (UC-003)
        - Log off from eChart Manitoba
            - From (BC-RD-002) to (UC-004)
    - Removed eChart Manitoba screenshots
- Updated Section 4: Requirements
    - Retired requirements: EC.I06, EC.S01, EC.S03, EC.B02 and EC.B03
    - Added requirement EC.I12
        - Requirement added to ensure EMR maintains a single eChart Manitoba user session
    - Update requirements: EC.I02, EC.I03, EC.I04, EC.I05, EC.I07 EC.I08, EC.I09, EC.I10, EC.I11 and EC.B01
        - Requirements updated to reflect parameter and browser changes
    - Update requirement EC.S05 to include timeout of EMR session
- Updated Section 5.1: User Authentication Parameters
    - Removed required column
    - Removed ClientApplicationID parameter
- Update Section 5.2: eChart Manitoba configuration Parameters
    - Removed required column
    - Added ClientApplicationID, Domain, and archived parameters
    - Removed Target, pageTarget and externalMode parameters
- Update Section 5.3: Patient Identification Parameters
    - Removed required column
    - Removed archived parameter

- o Updated previous parameters names except (PHIN, HealthCareNumber, and HealthCareNumberAuthority)
- Updated all example/sample criteria and HTML requests to reflect updated parameters
- Updated Section 5.4: Request and Logout URL
  - o Removed text "When the user identity at the EMR changes, the EMR must log the previous user out of eChart by navigating to a logout URL of the form:"
- Updated Appendix C: Use Case to Requirement Traceability