

Department of Veterans Affairs

Secure Messaging Application Protocol Interface

Personal Health Record Manager Update

Innovations Project

Release 12.9

Requirements Specification Document



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1. Introduction

My HealtheVet – (MHV) is a system that may be used by veterans and non-veterans alike, but Veterans and specifically VA patients are provided with additional functionality, such as refilling of prescriptions and communicating securely with their VA health care providers via Secure Messaging (SM). It has the features of an e-mail program without the security risks that are inherent in sending sensitive information via a potentially vulnerable medium.

The primary purpose of the MHV Application Protocol Interface (API) is to permit systems apart from MHV to send requests to MHV to retrieve data, post data, or execute a function of Secure Messaging, with the request results returned to the caller.

The MHV portal also provides a secure environment where Veterans can self-register to create an account and maintain a free web-based Personal Health Record (PHR) accessible at all times from any computer with Internet access. The VA stores important medical information which Veterans need to better manage their health. Unfortunately, some types of records and data remain unavailable to VA patients. My HealtheVet Online Viewing PHR (MHVON) consolidates VA patients' medical information currently stored across multiple isolated categories and combines them for accessible online viewing.

This document defines the high level features and functionality of the My HealtheVet Application Protocol Interfaces of Secure Messaging System identified for the 12.9 release. It also describes the updated functionality of the Personal Health Record (PHR) Manager Update. It focuses on the capabilities needed by the stakeholders and the target users. The details of how SM API's and PHR Manager Update fulfills these needs are detailed in the user stories.

1.1. Purpose

1.1.1. Secure Messaging

The purpose of the SM Provider API is to provide an easy and seamless way for desired MHV veterans to partner with their health care team by leveraging the functionality of the API(s). It broadens the capabilities and accessibility of data within the existing MHV domain needed for patient and clinician interactions while leveraging the backbone of the secure messaging platform. It facilitates a more rapid communicational channel that permits VA patients to pose questions and/or concerns to their VA health care teams. Through the MHV webserver and corresponding web applications an authenticated and authorized MHV/SM user will have access to the SM API's.

1.1.2. PHR

The MHV team developed the MHVON project out of the need for Veterans and their families to be able to electronically access their medical documents via the MHV portal 24 hours a day, seven days per week. This reduces the demand on VA resources to answer Veterans' medical-related inquiries, which improves Veteran satisfaction and healthcare management by making VA patients' Online Viewing PHRs accessible, available, and portable. MHV provides Veterans with the ability to take a more proactive approach to managing their health and utilizing VA health services and benefits. In order to increase the efficiency of extracts and streamline the data load in a manner that supports optimized refreshes, the PHR Manager component of MHV is being redesigned. It will be able handle an increase data load on the system as well as it will be

consistent with the MHV Website Redesign architecture.

1.2. Scope

The SM Provider API for the 12.9 release includes following functionality for MHV Providers:

- Create an Initial SM API Session
- Retrieve Message List MHV SM Folder
- Retrieve a Single Folder and its Metadata
- Retrieve Folder List MHV_SM Folder
- Retrieve Secure Message Attachment Binary
- Retrieve The Message Category
- Retrieve Message History
- Create and Save a Secure Message
- Create and Send a Secure Message
- Create and Send a Secure Message Attachment
- Delete a Specified Secure Message
- Move a Secure Message
- Execute a Search For Patient
- Retrieve a Triage Group
- Retrieve a Distribution Group
- Execute Provider Reply Message
- Execute Forward Message
- Retrieve Reassign Team Member
- Execute Reassign Team Member
- Execute Change Status
- Retrieve Message Status Options
- Execute Add Comments
- Retrieve CPRS Note Messages
- Execute Save CPRS Notes
- Retrieve Patient Detail
- Retrieve Clinician Detail
- Execute Set Reminder
- Execute Delete Reminder
- Retrieve Triage Group Members

- Retrieve Facility Triage Group
- Alternate Flows

The PHR Manager Update for the 12.9 release includes following functionality:

- PHR Update Portal Integration

1.3. References

The table below lists documents that are referenced to facilitate a greater understanding of the functionality developed for the SM API and PHR Manager Update 12.9 release:

Document Title	Location	Status
SM 12.9 User Story Documents	SharePoint	Waiting Approval
12.9 PHR Manager Update User Story	SharePoint	In Progress

1.4. Acronyms and Definitions

1.4.1. Acronyms

The table below provides definitions and explanations for acronyms relevant to the content presented in this document.

Acronym	Definition
CPRS	Computerized Patient Record System
HIM	Health Information Management
HIPAA	Health Insurance Portability and Accountability Act.
HITSP	Healthcare Information Technology Standards Panel
HL7	Health Level Seven
IdM	Identity Management
ICN	Integration Control Number
IPA	In Person Authentication
MHVON	My HealthVet Vet Online Viewing
MPI	Master Patient Index
PHR	Personal Health Record
ROI	Release of Information
SM	Secure Messaging System
VAMC	VA Medical Center

VHA	Veterans Health Administration
VBA	Veterans Benefit Administration
VISN	Veterans Integrated Service Network
VistA	Veterans Health Information Systems and Technology Architecture

1.4.2. Definitions

The table below provides definitions for terms relevant to the content presented in this document and other documents that define the Secure Messaging System.

Term	Definition
Administrator	The person responsible for the administration of SM at various levels. A local administrator administers SM at the VAMC level. The system administrator administers SM at the VISN or National level.
API	Application Protocol Interface
Clinician	A provider of healthcare services including but not limited to doctors, nurses, pharmacists and physical therapists.
Distribution Group	A grouping of SM users that can be addressed as the single recipient of a secure message. These are user configurable.
Facility	A VA medical facility.
Folder	A repository for secure messages. The standard folders include Inbox, Sent Items, Deleted, and Escalated. SM users can also create folders. User created folders can be deleted. Standard folders cannot be deleted.
Message Category	A category associated with a message based upon the form used to create the message.
Message Thread	A container for messages that are related to each other by association with an original message.
Patient	A Veteran that has been or is presently being provided with healthcare services through the Department of Veteran Affairs (VA) and its administered entities such as VHA and VBA.
PHR Manager	An MHV Business Process Manager and container that provides delegation and orchestration of requests and responses within the PHR Extract subsystem. It performs routing of requests and integration of the internal implementation classes with their corresponding interfaces and external endpoints. The Integration Manager also coordinates the tracking of requests and responses.
Remote Notification	An optionally assigned e-mail address that SM users can receive notifications of inbound messages.
TIU Record	An object that is created when a provider marks a message thread for inclusion as a CPRS Progress Note.

Term	Definition
Triage	A process where a staff member working on behalf of a clinician, pre-screens messages to identify which ones have a higher priority and which ones need to be routed elsewhere.
Triage Group	A clinician care group. This is a combination of clinicians and clinician support staff that work together to provide care for patients.
User	Anyone (patient, clinician, administrator, triage group) who uses SM.

2. Overall Description

2.1. Accessibility Specifications

2.1.1. Section 508 Compliance Requirements

All Section 508 requirements will be adhered to. The Veterans Health Administration (VHA) recognizes that these are Enterprise cross-cutting legal requirements for all developed Electronic & Information Technology (IT). To ensure that these requirements are met, they are addressed through the Enterprise- level requirements maintained by VHA Health IT, Software Engineering and Integration, and Enterprise Requirements Management.

2.2. Business Rules Specifications

The business rules specifications are defined in the Use Case documents (BUC) and the User Stories and referenced to the relevant flows. These are definitions of constraints that directly affect how the system user stories will be carried out.

2.3. Design Constraints Specifications

Any proposed SM API and PHR Manager Update enhancement needs to meet all VA and VHA Security, Health Information Management (HIM), Privacy, and Identity Management (IdM) guidelines. SM will have the ability to require an end-user to affirm a dialog box containing privacy policy or HIPAA requirements prior to proceeding to steps that involve sensitive information. Front end applications will be designed to be run from a Weblogic server 10.3.5. Backend applications will be supported on Oracle 11g.

2.4. Disaster Recovery Specifications

The system will be located in the Austin Information Technology Center (AIRC) and will rely on the Disaster Recovery and Concept of Operations (CONOPS) plans in place there to support systems that require continuous availability.

2.5. Documentation Specifications

All documentation created to support the SM API and PHR Manager Update 12.9 release will comply with existing Program Management Accountability System (PMAS) policies and utilize ProPath templates.

2.6. Functional Specifications

The tables below describe the business owner requirements as documented in the reference documents (BUC and User Stories). These requirements have been committed to by the sprint

team for the 12.9 release.

Table 1: SM API 12.9 Release Requirements

#	Requirement	Description Provider User Stories	Priority
1	API_SM_PR_001.1	A SSO Mapped VA Provider an account and are an active and eligible user shall request access to secure messaging.	
	API_SM_PR_001.2	The MHV system shall receive an inbound request to access SM and evaluate the API format. Note: The application token and the MVH correlation ID are expected.	
	API_SM_PR_001.2.1	The MHV system shall validate the payload or parameters and have all necessary required fields.	
	API_SM_PR_001.3	The SM API shall respond to the client with a corresponding 'Success' or 'Failure' and data. Note: The application token and the MVH correlation ID are expected.	
	API_SM_PR_001.4	MHV shall execute the SM API call for the MHV user and add necessary entries to the MHV account activity log (AAL)	
	API_SM_PR_001.5	The AAL shall contain the following Action Status Performer Type Detail Value Activity Type Completion Time Activity ID User Profile ID	
2	API_SM_PR_002.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_002.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_002.3	The MHV system shall receive a SM API request from a calling service with user context which will include: • Folder Id • The page of the messages to retrieve (Page Number) • The size of how many messages per page (Page Size) Has to be greater than zero	
	API_SM_PR_002.3.1	The request cannot exceed a pre-determined Page Size value.	
	API_SM_PR_002.3.2	The message response will not include the message body or attachment ID	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_002.3.3	The folder ID exists and the user has folder access permission before the message list will be returned to the calling service	
3	API_SM_PR_003.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_003.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_003.3	The MHV system shall receive a user context based on the session token from the client and return a single folder for the user.	
	API_SM_PR_003.3.1	The single folder shall contain the following metadata: <ul style="list-style-type: none"> • Folder Id • Folder Name • Number of Messages (Count) • Number of Unread Messages • Indicator of System or User folder 	
4	API_SM_PR_004.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_004.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_004.3	The MHV system shall receive a SM API request from a calling service with user context which will include: <ul style="list-style-type: none"> • The page of the messages to retrieve (Page Number) • The size of how many messages per page (Page Size) Has to be greater than zero 	
	API_SM_PR_004.3.1	The request cannot exceed a pre-determined Page Size value.	
	API_SM_PR_004.3.2	The message response will not include the message body or attachment ID	
5	API_SM_PR_005.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_005.1.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_005.2	The MHV system shall receive a user context based on the session token from the client returns the message content including the body for that message.	
	API_SM_PR_005.2.1	The MHV system shall automatically mark a message as 'Read' upon successfully returning the message content and body.	

#	Requirement	Description Provider User Stories	Priority
6	API_SM_PR_06.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_06.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_06.3	The MHV system shall receive a user context from the calling service and retrieve a specified attachment from a supplied Message identifier.	
7	API_SM_PR_007.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_007.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_007.3	The MHV system shall receive a list of acceptable message categories when creating a secure message	
8	API_SM_PR_008.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_008.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_008.3	MHV shall receive a user context from the calling service and retrieves the history of the message indicated.	
	API_SM_PR_009.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
9	API_SM_PR_009.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_009.3	The MHV system shall receive a user context based on the session token from the client and create a draft message on behalf of the user.	
	API_SM_PR_009.3.1	The MHV system shall create a copy of the newly created secure message and place it the System Draft folder	
10	API_SM_PR_010.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_010.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_010.3	The MHV system shall receive a user context based on the session token from the client and create and send a message on behalf of the user.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_010.4	The MHV system shall create a copy of the newly created secure message and place it in the user's Sent folder	
	API_SM_PR_010.4.1	The message response shall contain the following data components: <ul style="list-style-type: none"> • Long Id • MessageCategoryTypeEnum category • Id • String body • Attachment attachments • Long triageTeam • String triageTeamName • Date sentDate • String readReceipt 	
1 1	API_SM_PR_011.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_011.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_011.3	The MHV system shall receive a user context based on the session token from the client and create and send a message on behalf of the user.	
	API_SM_PR_011.3.1	The MHV system shall create a copy of the newly created secure message and place it in the user's Sent folder	
	API_SM_PR_011.3.2	The message response shall contain the following data components: <ul style="list-style-type: none"> • Long Id • MessageCategoryTypeEnum category • Id • String body • Attachment attachments • Long triageTeam • String triageTeamName • Date sentDate • String readReceipt 	
	API_SM_PR_011.3.3	The message response shall contain the following data components for the included attachment: <ul style="list-style-type: none"> • Long id • String name 	
1 2	API_SM_012.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_012.2	The MHV system shall validate that the application and the user has approval to access the requested service.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_012.3	The MHV system shall receive a user context based on the session token from the client and move a message from one folder to the Delete System Folder.	
	API_SM_012.4	The following message data components shall be removed from the existing folder and placed into the Delete System Folder: <ul style="list-style-type: none"> • Long id • MessageCategoryTypeEnum category • String body • Attachment attachments • Long triageTeamId • String triageTeamName • Date sentDate • String readReceipt 	
1 3	API_SM_PR_013.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_013.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_013.3	The MHV system shall receive a user context based on the session token from the client and moves a message from one folder to another on behalf of the user.	
	API_SM_PR_13.3.1	The message response shall contain the following data components: <ul style="list-style-type: none"> • Message id • From Folder id • To Folder id 	
1 4	API_SM_PR_014.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_014.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_014.3	The MHV system shall receive a user context based on the session token from the client and deletes the identified customer folder for the user.	
1 5	SM_API_PR_015.1.1	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to initiate a session.	
	SM_API_PR_015.1.1.1	MHV shall send the following error code(s) to the requesting service: 111 - Application authentication failed	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.1.2	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to retrieve a single folder & its metadata from the secure message folder.	
	SM_API_PR_015.1.2.1	MHV shall send the following error code(s) to the requesting service:111 - Invalid user permissions	
	SM_API_PR_015.1.3	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to retrieve the message list and its message content from the secure message folder.	
	SM_API_PR_015.1.3.1	MHV shall send the following error codes to the requesting service:115 - Entity not found	
	SM_API_PR_015.1.4	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to retrieve a triage list from the secure message folder.	
	SM_API_PR_015.1.4.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR015.1.5	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to retrieve a message category from the secure message folder.	
	SM_API_PR_015.1.5.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.1.6	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to Retrieve a message attachment list from the secure message folder.	
	SM_API_PR_015.1.6.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.1.7	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to retrieve a message attachment from the secure message folder.	
	SM_API_PR_015.1.7.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.1.8	MHV shall send a "Permission Denied" error to the user when the user permissions will not allow the requested API to execute a send message.	
	SM_API_PR_015.1.8.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.1.9	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to execute a send message with an attachment.	
	SM_API_PR_015.1.9.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.1.10	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to execute a move message action.	
	SM_API_PR_015.1.10.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.11	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to execute a reply message.	
	SM_API_PR_015.11.1	MHV shall send the following error codes to the requesting service: 111- Invalid User Permissions	
	SM_API_PR_015.1.12	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to save a draft message.	
	SM_API_PR_015.1.12.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.13	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to create a folder.	
	SM_API_PR_015.13.1	MHV shall send the following error codes to the requesting service: 111- Invalid User Permissions	
	SM_API_PR_015.14	MHV shall send a “Permission Denied” error to the user when the user permissions will not allow the requested API to delete a folder.	
	SM_API_PR_015.14.1	MHV shall send the following error codes to the requesting service:111- Invalid User Permissions	
	SM_API_PR_015.2.1	MHV shall present a “System Error” error to the user when the internal system will not allow the requested API to initiate a session.	
	SM_API_PR_015.2.1.2	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.2	MHV shall send a “System Error” error to the user when the internal system will not allow the requesting API to retrieve to retrieve a single folder & its metadata from the secure message folder.	
	SM_API_PR_015.2.2.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.2.3	MHV shall send a "System Error" error to the user when the internal system will not allow the requesting API to retrieve the message list and its associated message content from the secure message folder.	
	SM_API_PR_015.2.3.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.4	MHV shall send a "System Error" error to the user when the internal system will not allow the requesting API to retrieve the retrieve the triage list from the secure message folder.	
	SM_API_PR_015.2.4.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.5	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to Retrieve a message attachment list from the secure message folder.	
	SM_API_PR_015.2.5.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.6	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to retrieve a message attachment from the secure message folder.	
	SM_API_PR_015.2.6.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.7	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to execute a send message.	
	SM_API_PR_015.2.7.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.8	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to execute a send message with an attachment.	
	SM_API_PR_015.2.8.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.9	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to execute a move message action.	
	SM_API_PR_015.2.9.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.10	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to execute a reply message.	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.2.10 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.11	MHV shall send a “System Error Denied” error to the user when the internal system will not allow the requested API to save a draft message.	
	SM_API_PR_015.2.11 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.12	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to create a folder.	
	SM_API_PR_015.2.12 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.13	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to delete a folder.	
	SM_API_PR_015.2.13 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM API PR 015.2.14 .	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to Retrieve a message attachment list from the secure message folder.	
	SM_API_PR_015.2.14 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.15	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to retrieve a message attachment from the secure message folder.	
	SM_API_PR_015.2.15 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.16	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to execute a send message.	
	SM_API_PR_015.2.16 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.17	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to execute a send message with an attachment.	
	SM_API_PR_015.2.17 .1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.18	MHV shall send a “System Error” error to the user when the internal system will not allow the requested API to execute a move message action.	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.2.18.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.19	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to execute a reply message.	
	SM_API0_PR_15.2.19.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.20	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to save a draft message.	
	SM_API_PR_015.2.20.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.21	MHV shall send a "System Error" error to the user when the internal system permissions will not allow the requested API to create a folder.	
	SM_API_PR_015.2.21.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR_015.2.22	MHV shall send a "System Error" error to the user when the internal system will not allow the requested API to delete a folder.	
	SM_API_PR_015.2.22.1	MHV shall send the following error codes to the requesting service:503 - Internal System Level Error	
	SM_API_PR015.3.1	MHV shall send a "Token Invalid" error when the requesting API attempts to retrieve a single folder & its metadata from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.1.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.2	MHV shall send a "Token Invalid" error when the requesting API attempts to retrieve the message list and its associated message content from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.2.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.3	MHV shall send a "Token Invalid" error when the requesting API attempts to retrieve the message list and its associated message content from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.3.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.3.4	MHV shall send a "Token Invalid" error when requested API attempts to retrieve a message attachment list from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.4.1	MHV shall send the following error codes to the requesting service: 109 - Invalid session token	
	SM_API_PR_015.3.5	MHV shall send a "Token Invalid" error when requested API attempts to retrieve a message attachment list from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.5.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.6	MHV shall send a "Token Invalid" error when the requested API attempts to retrieve a message attachment from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.6.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.7	MHV shall send a "Token Invalid" error when the requested API attempts to execute a send message and the token is not valid.	
	SM_API_PR_015.3.7.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.8	MHV shall send a "Token Invalid" error when the requested API attempts to execute a send message with an attachment and the token is not valid.	
	SM_API_PR_015.3.8.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.9	MHV shall send a "Token Invalid" when the requested API attempts to execute a move message action and the token is not valid.	
	SM_API_PR_015.3.9.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.10	MHV shall send a "Token Invalid" error when the requested API to execute a reply message and the token is not valid.	
	SM_API_PR_015.3.10.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.11	MHV shall send a "Token Invalid Denied" error when the requested API attempts to save a draft message and the token is not valid.	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.3.11 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.12	MHV shall send a "Token Invalid" error when the requested API attempts to create a folder and the token is not valid.	
	SM_API_PR_015.3.12 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.13	MHV shall send a "Token Invalid" error to the user when the internal system will not allow the requested API to delete a folder.	
	SM_API_PR_015.3.13 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.14 .	MHV shall send a "Token Invalid" error when the requested API attempts to Retrieve a message attachment list from the secure message folder and the token is not valid.	
	SM_API_PR_015.3.14 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.15	MHV shall send a "Token Invalid" error when the requested API attempts to retrieve a message attachment from the secure message folder.	
	SM_API_PR_015.3.15 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.16	MHV shall send a "Token Invalid" error when the requested API attempts to execute a send message and the token is not valid.	
	SM_API_PR_015.3.16 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.17	MHV shall send a "Token Invalid" error when the requested API attempts to execute a send message with an attachment and the token is not valid.	
	SM_API_PR_015.3.17 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.18	MHV shall send a "Token Invalid" error when the requested API attempts to execute a move message action and the token is not valid.	
	SM_API_PR_015.3.18 .1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.19	MHV shall send a "Token Invalid" error when the requested API attempts to execute a reply message and the token is not valid.	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.3.19.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.20	MHV shall send a “Token Invalid” error when the requested API attempt to save a draft message and the token is not valid.	
	SM_API_PR_015.3.20.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.21	MHV shall send a “Token Invalid” error when the requested API attempts to create a folder and the token is not valid.	
	SM_API_PR_015.3.21.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.3.22	MHV shall send a “System Error” error when the requested API attempts to delete a folder and the token is not valid.	
	SM_API_PR_015.3.22.1	MHV shall send the following error codes to the requesting service:109 - Invalid session token	
	SM_API_PR_015.4.1	MHV shall send a “User Not Found” error when the requested API attempts to initiate a session and the user requesting access to secure messaging cannot be located.	
	SM_API_PR_015.4.1.1	MHV shall send the following error codes to the requesting service:105 – User not found	
	SM_API_PR_015.4.2	MHV shall send a “User Not Found” when the requested API attempts to retrieve a single folder list and its metadata and the user requesting access to the secure messaging cannot be located.	
	SM_API_PR_015.4.2.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.3	MHV shall send a “User Not Found” when the requested API attempts to retrieve a single folder list and its metadata and the user requesting access to the secure messaging cannot be located.	
	SM_API_PR_015.4.3.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.4	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API is sent to retrieve triage TO list from the secure message folder.	
	SM_API_PR_015.4.4.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.4.5	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API is sent to retrieve the subject list from the secure message folder.	
	SM_API_PR_015.4.5.1	MHV shall send the following error code(s) to the requesting service: 105 - User not found	
	SM_API_PR_015.4.6	MHV shall place an error condition in the response field and an “User Not Found ”error tuple in the response Error Condition field when the requesting API is sent to retrieve the message attachment list from the secure message folder.	
	SM_API_PR_015.4.6.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.7	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API is sent to retrieve the message attachment from the secure message folder.	
	SM_API_PR_015.4.7.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.8	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API is sent to retrieve the message attachment from the secure message folder.	
	SM_API_PR_015.4.8.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.9	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts to send a message with attachment the secure message folder.	
	SM_API_PR_015.4.9.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.10	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts to move a message from the secure message folder.	
	SM_API_PR_015.4.10.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.4.11	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts a reply message.	
	SM_API_PR_015.4.11.1	MHV shall send the following error code(s) to the requesting service:	
	SM_API_PR_015.412	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts to save a message draft from the secure message folder.	
	SM_API_PR_015.4.12.1	MHV shall send the following error code(s) to the requesting service:	
	SM_API_PR_015.4.13	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts to create a folder.	
	SM_API_PR_015.4.13.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_015.4.14	MHV shall place an error condition in the response field and an “User Not Found” error tuple in the response Error Condition field when the requesting API attempts to delete a folder.	
	SM_API_PR_015.4.14.1	MHV shall send the following error code(s) to the requesting service:105 – User not found	
	SM_API_PR_15.5.1	MHV shall place an error condition in the response field and an “Empty Message List” error tuple in the response Error Condition field when the requesting API retrieves an empty message list and its contents.	
	SM_API_PR_15.5.1.1	MHV shall send the following error code(s) to the requesting service:115- Entity Not Found	
	SM_API_PR_15.6.1	MHV shall place an error condition in the response field and an “Folder Not Found” error tuple in the response Error Condition field when the requesting API is unable to locate a specified folder’s metadata.	
	SM_API_PR_15.6.1.1	MHV shall send the following error code(s) to the requesting service:115- Entity Not Found	
	SM_API_PR_15.6.2	MHV shall place an error condition in the response field and an “Folder Not Found” error tuple in the response Error Condition field when the requesting API is unable to execute a message reply.	
	SM_API_PR_15.6.2.1	MHV shall send the following error code(s) to the requesting service:115- Entity Not Found	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_15.6.3	MHV shall place an error condition in the response field and an "Folder Not Found" error tuple in the response Error Condition field when the requesting API is unable to execute saving a draft message.	
	SM_API_PR_15.6.3.1	MHV shall send the following error code(s) to the requesting service:115- Entity Not Found	
	SM_API_PR_15.7.1	MHV shall place an error condition in the response field and an "Move Not Permitted" error tuple in the response Error Condition field when a secure message move is not permitted by the requesting API.	
	SM_API_PR_15.7.1.1	MHV shall send the following error code(s) to the requesting service:114- Unable to Move Message	
	SM_API_PR_15.8.1	MHV shall place an error condition in the response field and an error tuple in the response Error Condition field when an existing folder is asked to be created by the requesting API.	
	SM_API_PR_15.8.1.1	MHV shall send the following error code(s) to the requesting service:126- The Folder Already Exists With the Requested Name	
	SM_API_PR_15.8.2	MHV shall place an error condition in the response field and an error tuple in the response Error Condition field when an existing folder is asked to be deleted by the requesting API.	
	SM_API_PR_15.8.2.1	MHV shall send the following error code(s) to the requesting service:126- The Folder Already Exists With the Requested Name	
	SM_API_PR_015.9.1	MHV shall place an error condition in the response field and an "Folder Not Empty" error tuple in the response Error Condition field upon receipt of a delete folder request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.9.1.1	MHV shall send the following error code(s) to the requesting service:116- The Folder must be empty before delete	
	SM_API_PR_015.10.1	MHV shall place an error condition in the response field and an "Message Not Found" error tuple in the response Error Condition field upon receipt of a retrieve message content request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.10.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.10.2.1	MHV shall place an error condition in the response field and an "Message Not Found" error tuple in the response Error Condition field upon receipt of a retrieve message attachment list request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.10.2.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	
	SM_API_PR_015.10.3.1	MHV shall place an error condition in the response field and an "Message Not Found" error tuple in the response Error Condition field upon receipt of a retrieve message attachment request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.10.3.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	
	SM_API015.10.4.1	MHV shall place an error condition in the response field and an "Message Not Found" error tuple in the response Error Condition field upon receipt of an execute move message request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.10.4.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	
	SM_API_PR_015.10.5.1	MHV shall place an error condition in the response field and an "Message Not Found" error tuple in the response Error Condition field upon receipt of an execute reply message request by the calling service when there are messages within that specified folder.	
	SM_API_PR_015.10.5.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	
	SM_API_PR_015.11.1	MHV shall place an error condition in the response field and an Triage List Empty error tuple in the response Error Condition field upon encountering an empty Triage TO list from a requesting API.	
	SM_API_PR_015.11.1.1	MHV shall send the following error code(s) to the requesting service:119 - Triage team does not exist	
	SM_API_PR_015.12.1	MHV shall place an error condition in the response field and an "Subject List Empty" error tuple in the response Error Condition field upon encountering an empty message category list from a requesting API.	
	SM_API_PR_015.12.1.1	MHV shall send the following error code(s) to the requesting service:115 - Entity not found	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.13.1	MHV shall place an error condition in the response field and an "Attachment List Empty error tuple in the response Error Condition field upon encountering the retrieve message attachment list from a requesting API.	
	SM_API_PR_015.13.1.1	MHV shall send the following error code(s) to the requesting service: 115 - Entity not found	
	SM_API_PR_015.13.2.1	MHV shall place an error condition in the response field and an "Attachment List Empty error tuple in the response Error Condition field upon encountering the retrieve message attachment from a requesting API.	
	SM_API_PR_015.13.2.2	MHV shall send the following error code(s) to the requesting service: 115 - Entity not found	
	SM_API_PR_015.14.1	MHV shall place an error condition in the response field and an "Attachment List Empty error tuple in the response Error Condition field upon encountering the retrieve message attachment from a requesting API.	
	SM_API_PR_015.14.1.1	MHV shall send the following error code(s) to the requesting service: 122 - The attachment file size exceeds the supported size limits	
	SM_API_PR_015.15.1	MHV shall place an error condition in the response field and an UnSupported File Format error tuple if the supplied attachment is not of an acceptable format.	
	SM_API_PR_015.15.1.1	MHV shall send the following error code(s) to the requesting service: 122 - The attachment file type is currently not supported	
	SM_API_PR_015.16.1	MHV shall place an error condition in the response field and an File Size Exceeds Max error tuple is set in the error condition field when the sum of the attachment files exceeds 6 MB.	
	SM_API_PR_015.16.1.1	MHV shall send the following error code(s) to the requesting service: 124-The attachment file size exceeds the supported size limits	
	SM_API_PR_015.17.1	MHV shall place an error condition in the response field and an File Incomplete error tuple is set in the error condition field when the attachment file is not complete (only part of the file has been transmitted).	
	SM_API_PR_015.17.1.1	MHV shall send the following error code(s) to the requesting service: 113 - Unable to read attachment	
	SM_API_PR_015.18.1	MHV shall place an error condition in the response field and a To Folder Not Found error tuple is set in the error condition field when the move message API indicates a "To" folder that is not found.	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.18.1.1	MHV shall send the following error code(s) to the requesting service: 115 - Entity Not Found	
	SM_API_PR_015.19.1	MHV shall place an error condition in the response field and a "Message Format Error" error tuple in the error condition field when the message format and content provided via the create a new message API does not meet validity checks.	
	SM_API_PR_015.19.1.1	MHV shall send the following error code(s) to the requesting service: 99 - unknown application error	
	SM_API_PR_015.19.1.2	MHV shall place an error condition in the response field and a "Message Format Error" error tuple in the error condition field when the message format and content provided via the create a new message with attachment API does not meet validity checks.	
	SM_API_PR_015.19.1.2.1	MHV shall send the following error code(s) to the requesting service: 99 - unknown application error	
	SM_API_PR_015.20.1	MHV shall place an error condition in the response field and an error tuple in the error condition field when a team member selected for reassignment is not found.	
	SM_API_PR_15.20.1.1	MHV shall send the following error code(s) to the requesting service: 99 - Unknown application error occurred	
	SM_API_PR_015.21.1	MHV shall place an error condition in the response field and a "Message Format Error" error tuple in the error condition field when the message format and content provided via the create a new message API does not meet validity checks.	
	SM_API_PR_015.21.1.1	MHV shall send the following error code(s) to the requesting service: 99- Unknown application error occurred	
	SM_API_PR_015.22.1	MHV shall place an error condition in the response field and an error tuple in the error condition when the status of the message supplied by the API is not valid.	
	SM_API_PR_015.22.1.1	MHV shall send the following error code(s) to the requesting service:	
	SM_API_PR_015.23.1	MHV shall place an error condition in the response field and an error tuple in the error condition if the date supplied for the reminder indicated by the API request is not a valid date.	
	SM_API_PR_015.23.1.1	MHV shall send the following error code(s) to the requesting service: 99- Unknown application error occurred	

#	Requirement	Description Provider User Stories	Priority
	SM_API_PR_015.24.1	MHV shall place an error condition in the response field and an error tuple in the error condition field when the Triage Group ID supplied by the API request is not a valid Triage Group ID.	
	SM_API_PR_015.24.1.1	MHV shall send the following error code(s) to the requesting service: 902 - Triage Group Service Error	
	SM_API_PR_015.25.1	MHV shall place an error condition in the response field and an error tuple in the error condition field when the Facility ID supplied by the API request is not a valid Facility ID.,	
	SM_API_PR_015.25.1.1	MHV shall send the following error code(s) to the requesting service: 103 Error – invalid user credentials 901 - Authentication Service Error	
	SM_API_PR_015.26.1	MHV shall place an error condition in the response field and an error tuple in the error condition field when the Provider ID supplied by the API request is not a valid Provider ID	
	SM_API_PR_015.26.1.1	MHV shall send the following error code(s) to the requesting service:	
16	API_SM_PR_016.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_016.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_016.3	The MHV system receives a call from an external application service to search for a clinician.	
	API_SM_PR_016.4	The MHV system shall include for the last name and optional first name in the call.	
	API_SM_PR_016.5	The MHV system shall return a list of matches based on the information provided in the response to the inbound request.	
17	API_SM_PR_017.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_017.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_017.3	The MHV system receives a call from an external application service to search for a patient.	
	API_SM_PR_017.4	The MHV system shall search for the last name and optional first name in the call.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_017.5	The MHV system shall return a list of matches based on the information provided in the response to the inbound request.	
1 8	API_SM_PR_018.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_018.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_018.3	The MHV system shall receive a SM API request from a calling service with user context and returns a list of available triage groups.	
1 9	API_SM_PR_019.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_019.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_019.3	The MHV system shall receive a SM API request from a calling service with user context and returns a list of available distribution groups.	
2 0	API_SM_PR_020.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_020.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_020.3	The MHV system shall receive a user context based on the session token from the client and replies to an identified message in a particular folder on behalf of the user.	
	API_SM_PR_020.4	The MHV system shall create a copy of the newly created secure message and place it in the user's Sent folder	
2 1	API_SM_PR_021.1	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_021.2	The MHV system shall receive a user context based on the session token from the client and forward the identified secure message in a particular folder on behalf of the user.	
	API_SM_PR_021.3	The MHV system shall create a copy of the forwarded secure message and place it in the user's Sent folder	
2 2	API_SM_PR_022.1	The MHV system shall validate that the application and the user has approval to access the requested service.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_022.2	The MHV system shall receive a user context from the calling service and returns a list of eligible Team Members to whom a message may be reassigned.	
2 3	API_SM_PR_023.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_023.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_023.3	The MHV system shall receive a user context from the calling service and reassigns the message to the identified member of the selected team.	
2 4	API_SM_PR_024.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_024.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_024.3	The MHV system shall receive a user context based on the session token from the client and changes the status of the message per the value supplied.	
2 5	API_SM_PR_025.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_025.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_025.3	The MHV system shall receive a user context based on the session token from the client and retrieves a valid list of message status values for the identified message.	
2 6	API_SM_PR_026.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_026.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_026.3	The MHV system shall receive a user context based on the session token from the client and retrieves a list of associated comments for the identified message.	
2 7	API_SM_PR_027.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_027.2	The MHV system shall validate that the application and the user has approval to access the requested service.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_027.3	The MHV system shall receive a user context based on the session token from the client and add an Internal Healthcare Team Communication comment to the identified message.	
28	API_SM_PR_028.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_028.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_028.3	The MHV system shall receive a SM API request from a calling service with user context which will include: <ul style="list-style-type: none"> • The page of the messages to retrieve (Page Number) • The size of how many messages per page (Page Size) Has to be greater than zero • Messages that can be saved as a CPRS note 	
	API_SM_PR_028.3.1	The request cannot exceed a pre-determined Page Size value.	
	API_SM_PR_028.3.2	The message response will not include the message body or attachment ID	
29	API_SM_PR_029.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_029.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_029.3	The MHV system shall receive a user context based on the session token from the client and saves the identified message as a CPRS Note.	
30	API_SM_PR_030.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_030.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_030.3	The MHV system shall receive a request from the calling service and will provide the patient detail information for the provided Patient identifier.	
31	API_SM_PR_031.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_031.2	The MHV system shall validate that the application and the user has approval to access the requested service.	

#	Requirement	Description Provider User Stories	Priority
	API_SM_PR_031.3	The MHV system shall receive a request from the calling service and will provide the Clinician detail information for the provided Clinician identifier.	
3 2	API_SM_PR_032.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_032.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_032.3	The MHV system shall receive a SM API request from a calling service and creates a reminder for the indicated message. Any existing Reminder is replaced with the new value	
3 3	API_SM_PR_033.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_033.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_033.3	The MHV system shall receive a SM API request from a calling service and cancels (removes) the reminder for the indicated message.	
3 4	API_SM_PR_034.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_034.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_034.3	The MHV system shall receive a SM API request from a calling service with user context and returns list members in the Triage Group.	
3 5	API_SM_PR_035.1	The MHV system shall validate that the session token is not corrupted and has not expired.	
	API_SM_PR_035.2	The MHV system shall validate that the application and the user has approval to access the requested service.	
	API_SM_PR_035.3	The MHV system shall receive a SM API request from a calling service with user context and returns a list of triage groups in the identified facility.	

Table 3: PHR Manager Update 12.9 Release Requirements

#	Requirement	Description PHR User Stories	Priority
1	PHR_PI_01.0.1	The system shall send a request for all PHR extract categories when the user navigates to view any of the PHR extract categories.	

	PHR_PI_01.0.2	The system shall request for PHR extracts from VistA only once in a calendar day per user.	
	PHR_PI_01.0.3	The system shall display a message that the PHR category data is in-progress if the data for the selected category has not been retrieved from all treatment facilities associated with the user.	
	PHR_PI_01.0.4	The system shall display a message that the PHR category has finished loading when responses are received from all treatment facilities.	
	PHR_PI_01.0.5	The system shall display the new data from all treatment facilities only after data is successfully received from all user's treatment facilities.	
	PHR_PI_01.0.6	The system shall display the Last update date for each extract. The Last Update date is the last date and time that data was successfully received from all the user's treatment facilities	
	PHR_PI_01.0.7	The system shall display the in-progress and complete messages at the extract level.	

2.7. Graphical User Interface (GUI) Specifications

SM API and PHR Manager Update will comply with VHA style guides and existing MHV requirements for cross-browser and cross platform compatibility. It will comply with the GUI Specifications as outlined in the existing My HealthVet Style Guide.

2.8. Multi-Divisional Specifications

Interoperability (Executive Order Requirements).

In keeping with the President's Executive Order: Promoting Quality and Efficient Healthcare in Federal Government Administered or Sponsored Healthcare Programs, the VHA OHI must promote quality and efficient delivery of Healthcare through the use of Healthcare IT, transparency regarding Healthcare quality and price, and incentives to promote the widespread adoption of health IT and quality of care. To support this mission to the greatest extent possible, any new IT system development or acquisition of commercial system shall:

1. Use interoperability standards recognized by the Secretary of Health and Human Services or the appropriate designated body at the time of the system update, acquisition, or implementation, in all relevant information technology systems.
2. Ensure interoperability with the Nationwide Health Information Network (NwHIN).
3. Comply with certification standards released through the Certification Commission of Health Information Technology (CCHIT).

2.9. Performance Specifications

The response time, throughput and capacity requirements for the SM application are similar to existing VHA applications. Performance requirements are inherited from the general portal performance requirements as specified in the product supplemental specification.

2.9.1. Capacity Limits

SM API will be able to support 225,000 user accounts. The message throughput is 350 messages per hour.

2.9.2. Degradation Mode

SM API will be able to operate at the level of its hosting systems MHV and CPRS. There is no planned degradation mode. If the host systems are running, SM will be running. Lack of connectivity to the database server or to VistA will completely stop function of SM.

2.9.3. Resource Use

SM API will be able to operate on a shared web server and will require 32 GB of disk storage per years' worth of messages. The impact on system memory is negligible.

2.10. Quality Attributes Specifications

A suite of unit tests and repeatable system test cases will be made available as part of the SQA process.

2.11. Reliability Specifications

SM API and PHR Manager Update will have the same availability requirements as MHV. Its maintenance schedule will conform to the schedule of MHV. SM API will track the length and number of times the system is not available if such availability is not due to scheduled maintenance windows.

PHR Manager Update

Outcome	Measurement
The MHV functions according to stated business requirements.	Users can access the MHV 100% of the time.
The MHV has a user-centered and user-friendly design.	70% of users will rate the usability of the MHV favorably.

The above table details the reliability specifications for MHVON.

2.12. Scope Integration

SM API will be integrated with VistA (for SM Clinics Information), MHV portal (for patients), and the CPRS application (for clinicians). Only patients who have been In-Person Authenticated and have accepted the terms and conditions for secure messaging with the required Opt-In, will see the SM feature activated in their MHV account and have the eligibility to leverage the SM API.

PHR Manager Update has planned integration points with the following known projects. A description of project integration scope can be found in the project charter:

- eBenefits
- HRA

- VLER
- MHV PEMS (integrates DoD MHS Learn)
- My Recovery Plan
- Mobile Applications
- Veterans Health Library Computerized Patient Record System
- VHA Point of Service (Kiosks)

2.13. Security Specifications

All VA and VHA security requirements will be adhered to. The system shall comply with all applicable VA and VHA security requirements.

2.14. System Features

The SSO, described by sequences of inputs and outputs, are outlined in the system user stories described in the Functional Specifications, Section 2.6 of this RSD.

2.15. Usability Specifications

SM API and PHR Manager Update will adhere to the MHV Style Guide standards and global requirements including look and feel, browser compatibility, and other standard behavior such as paging, sorting, printing, and error messaging standards as documented in the My HealtheVet Style Guide.

3. Applicable Standards

3.1.1. IdM

All Enterprise IdM will be adhered to. VHA recognizes that these are Enterprise requirements for all developed Electronic & IT products. These requirements are applicable to any application that adds, edits, or performs lookups on persons (patients, practitioners, employees, IT users) to systems within the VHA. To ensure that these requirements are met, they are addressed through the Enterprise-level requirements maintained by VHA Health IT, Software Engineering & Integration, and Enterprise Requirements Management.

3.1.2. Health Insurance Portability and Accountability Act (HIPAA) Compliance

The system shall comply with the HIPAA.

3.1.3. Health Level Seven (HL7) Messaging

The HL7 (VistA Messaging) package assists M-based applications conduct HL7 transactions. It enables the facilities to create, transmit, and receive HL7 messages over a variety of transport layers.

4. Interfaces

SM API and PHR Manager Update enhancements for the 12.9 release will support communications interfaces, hardware interfaces, and software interfaces. SM API will add a parallel interface to the web that leverages.

4.1. Communications Interfaces

SM API and PHR Update communications interfaces will conform to the HL7 specifications as well as those specifications required by MHV & CPRS. MHV will communicate with VistA via MHV middleware to attach messages to patient records in CPRS as TIU notes to obtain VistA data to create and maintain triage groups, to obtain patient demographic data and other VistA information as needed; these progress notes shall be known to SM users as CPRS Progress notes.

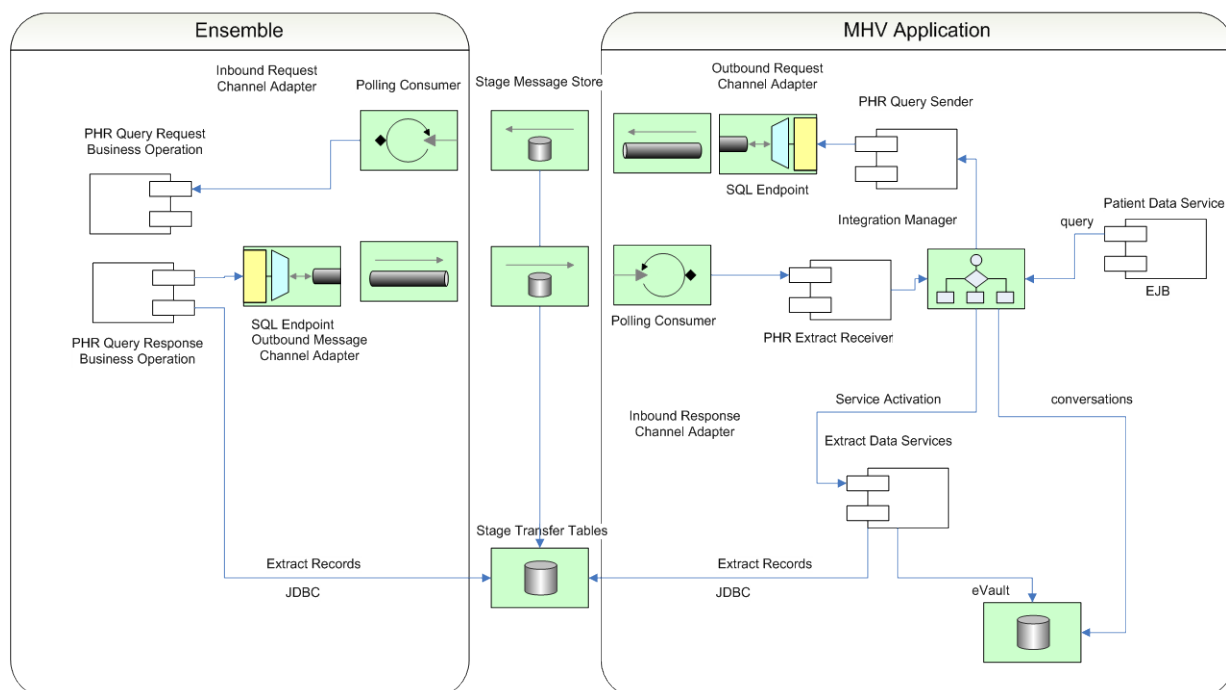
4.2. Hardware Interfaces

SM hardware interfaces will comply as specified in the *My HealtheVet Integration Framework Interface Control Document*.

PHR hardware interfaces will comply as specified in the **My HealtheVet Integration Framework Interface Control Document**

The hardware interfaces will comply as specified in the [My HealtheVet Integration Framework Interface Control Document](#).

PHR Messaging Components Logical Diagram



The above image shows the PHR Messaging Components Logical Diagram

4.3. Software Interfaces

4.3.1. MHV Administrative Portal

SM and PHR Manager Update must interface with the IPA functionality in the MHV Administrative Portal to determine if the MHV User is authorized to participate in SM and PHR Manager Update.

4.3.2. VistA

SM must interface with each VistA site that has been identified as a treating facility of the MHV User.

Within the PHR subsystem is the request for patient data to be extracted from VistA for presentation to the patient. This is implemented as an on demand asynchronous request when the patient performs a triggering event within the MHV portal

4.3.3. Communications Interfaces

MHV will communicate with VistA via MHV middleware to attach messages to patient records in CPRS as TIU progress notes, to obtain VistA data to create and maintain triage groups, to obtain patient demographic data, and other VistA information as needed. These progress notes shall be known to SM users as CPRS Progress Notes. External interfaces for the SM are to VistA; specifically CPRS, Pharmacy and PHR. SM software interfaces will comply as specified in the My HealtheVet Integration Framework Interface Control Document.

4.4. User Interfaces

All MHV user interaction is via the MHV production web browser. SM will support the same browsers as supported by MHV. Visual Design and Coding should adhere to standards that are defined by the My HealtheVet 8.0 Style Guide.

5. Legal, Copyright, and Other Notices

SM API and PHR Manager Update shall follow VHA's Release of Information (ROI) regulations when patient information is requested from VistA.

6. Purchased Components

SM API and PHR Manager Update will operate using existing infrastructure. There are no purchased components as part of either.

6.1. Defect Source (TOP 5)

For the number of defects discovered by component, please refer MHV 12.9 Version Description Document (VDD) and the MHV 12.9 Test Evaluation Summary (TES) documents. These documents can be located at below location:

[SQA Documentation](#) link.

7. User Class Characteristics

1. Intended users of the SM and PHR Manager Update will be non-authenticated (i.e. Basic Account holders) who are only able to view_____. As well as authenticated users (i.e. Premium Account holder) who could consist of the following:

- a. Clinician - A provider of healthcare services including, but not limited to doctors, nurses, pharmacists, and physical therapists.
 - b. Clinician Triage - A staff member working on behalf of a clinician that pre-screens messages to identify which ones need clinician involvement, those that can be handled at the staff level, and those that need routing elsewhere.
 - c. Patient - A Veteran that has been or is presently being provided with healthcare services through the Department of Veterans Affairs (VA) and its administered entities, namely the Veterans Health Administration (VHA) and Veterans Benefit Administration (VBA).
 - d. System Administrator - The person responsible for the administration of SM at various levels. The system administrator administers SM at the facility, VISN, or National level.
2. SM API will employ user-friendly language and meet VA Handbook 6102 standards (e.g., 7th grade reading level).

8. Estimation

N/A

9. Approval Signatures

This section is used to document the approval of the Requirements Specification Document during the Formal Review. The review should be conducted face-to-face where signatures can be obtained 'live' during the review. If unable to conduct a face-to-face meeting then it should be held via LiveMeeting and concurrence captured during the meeting. The Scribe should add name by each position cited.

REVIEW DATE:

SCRIBE: Charisse Dean

X

_____, Product Owner

X

_____, Program Manager

X

██████████, Director

DRAFT

A. Appendix A Use Case Specification

MHV utilizes User Stories in place of Use Cases. The user stories for SM API and PHR Manager Update 12.9 release can be found at the below SharePoint links:

- [SM API Epic Story: 01 - MHV API Development](#)
- [Epic Story: PHR Manager Redesign - Phase II](#)

A.1. Use Case Name

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.2. Brief Description

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.3. Use Case Trigger

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.4. Use Case Context Diagram

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.5. Use Case Actors

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.6. Preconditions

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.6.1. Precondition 1

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.7. Basic Flow of Events

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.8. First Step of the Basic Flow

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.9. Alternative Flows

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

First Alternative Flow

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

Second Alternative Flow

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD

A.10. Sub Flows

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.10.1. First Subflow

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.10.2. Second Subflow

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.11. Postconditions

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

Post Condition One

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.12. Special Specifications

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

First Special Specification

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.13. Extension Points

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.

A.14. Name of Extension Point

This section is non-applicable to MHV SM API and PHRUpdate Manager RSD.