Secure Messaging API

Interface Control Document

April 2021

Version 2.5

Revision History

Date	Version	Description	Author
Dec 2, 2013	0.1	Initial draft	Ken Graham
Dec 4, 2013	0.2	Resource definitions	Jamie Doyle
Dec 24, 2013	0.3	Updated to include latest error codes and features	Ken Graham
Jan 13, 2014	1.0	Updated to match BUC and code	Ken Graham
Jan 14, 2014	1.1	Input from Mobile Apps and changes to /session errors and URL	Ken Graham
Jan 15, 2014	1.2	Input from HRA	Ken Graham
Jan 16, 2014	1.3	Updated the diagrams and sample for retrieval of attachments	Ken Graham
Jan. 21, 2014	1.4	Updated message requirements section and added Appendix C	Jamie Doyle
Feb 4, 2014	1.5	Minor updates: corrected spelling	Ken Graham
Feb 6, 2014	1.6	Corrected the Accept-Type for Retrieving the attachment for a message. It should be "application/json". And repaired the examples and type of multipart/form-data for all attach POSTs. Included new text to describe deleting drafts	Ken Graham
Feb 13, 2014	1.7	Repaired several issues that were discovered by reviewers. And added required fields in Message for all send/reply actions.	
Mar 25, 2014	1.8	Updated to reflect the production url	Ken Graham
Apr 8, 2014	1.9	Correction to the "move" url	Ken Graham
Nov 11, 2014	2.0.	Corrected retrieve list of messages (from /messages/ to /message/)	Ken Graham
Jun 22, 2015	2.1	Adding Reassign Message API	Muazzam Khan
Feb 06, 2017	2.2	Adding Preferences	Muazzam Khan

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Feb 28, 2017	2.3	Technical Writer Review, added Acronym Appendix	Melinda LaTona
Sep 21, 2017	2.4	Adding renaming folder	Muazzam Khan
	2.5	Adding search messages	Rajesh Manivasagam

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1. Introduction

This document describes the Application Programming Interface (API) of Secure Messaging (SM).

SM is a system that provides VA patients the ability to partner with their VA Health Care Teams online. SM is accessible from within the My Health*e*Vet (MHV) portal. 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 SM. The health care teams can save message threads as a progress note in the patient's record in the VA Electronic Health Record (EHR), or the Veterans Health Information Systems and Technology Architecture (VistA).

Clients such as Health*e*Living Assessment (HLA) will use the SM API to create a new message thread containing a health care provider centric report, the Health Care Team Report. It is important to note that this report contains predominantly self-entered information. Therefore, a Health Care Team member must review the information before it may be added to the patient's electronic health record. This is where the Secure Messaging workflow plays an important role. When the user opted to share the Health Care Team Report, a new message is created and shared with the selected VA health care team. If appropriate, a member of the Health Care Team can, after reviewing the information, capture the assessment information in VistA, using the capability to save a message thread as a progress note.

Clients obtain information for MHV Users with a Premium account (i.e. users with an authentication level of 2 or higher) from the Master Veteran Index (MVI) using the identifier for the user correlation between MHV and MVI. These are the MHV users that can enroll in the Secure Messaging functionality.

The purpose of this Interface Control Document is to specify the interface requirements to be met by the participating systems. It is intended for all parties requiring such information, including software developers, system designers and testers responsible for implementing the interface(s).

1.1. Scope

This Interface Control Document (ICD) defines the interface(s) available to access features of SM.

This document provides details on the functional, performance, operational and design requirements for the interface herein. It describes the concept of operations for the interface, defines the message structure and protocols which govern the interchange of data, and identifies the communication paths along which the data is expected to flow.

1.2. System Identification

MHV is the VA's Personal Health Record (PHR). It was designed for veterans, active duty service members, their dependents and caregivers. My Health*e*Vet helps veterans partner with their health care team. It provides veterans opportunities and tools to make informed decisions.

One example such as HLA provides veterans the opportunity to assess their current state of health and receive recommendation on how to improve their health, based on a self-answered questionnaire. SM provides the VA patients a way to communicate with their VA health care teams about questions and concerns a patient may have without the need to physically visit a VA Medical Center (VAMC).

MHV shall establish a session for each user. Every time a new session is started MHV provides the current state of the account status. The session will succeed if all the conditions of the current SM eligibility check succeed and will reflect any reason for rejection or failure in a corresponding error code.

1.2.1. Health*e*Living Assessment (HLA)

The following table describes the HLA system participation in the interface and vendors/consultants developing and maintaining the systems.

Table 1

System	Details
Identification number	-
Title	Health*e*Living Assessment
Abbreviation	HLA
Version number	-
Release number	-
Point of Contact	Konstantin Von-Schmidt Pauli
Vendor [optional]	Aquilent, Inc.
Description: In the case of HLA, the use of this API removes the undue burden on patient and allows an easy and seamless capability to share health assessment information with their VA health care provider. In that case, the patient will either need to save a report and manually send the report information to the provider using the SM user application and/or print the report and bring it to the provider on the next visit. It is expected that because of this additional burden, the patient will in most cases not share the information, thus having the VA miss out of an opportunity to help improve a veteran's state of health.	

1.2.2. Mobile Application (Connected Health Office, VA)

The following table describes the mobile secure messaging application participation in the interface and vendors/consultants developing and maintaining the application.

Table 2

System	Details
Identification number	-
Title	Mobile Secure Messaging
Abbreviation	MSM
Version number	-
Release number	-
Point of Contact	Shawn Hardenbrook (Connected Health)
Vendor [optional]	Agilex, Inc.(Ron Moody MD)
Description: In the case of Mobile Secure Messaging, the use of this API provides the flexibility for the VA to support the patient access with their VA health care provider.	

1.2.3. Secure Messaging (SM)

The following table describes the SM system participation in the interface and vendors/consultants developing and maintaining the systems.

Table 3

System	Details
Identification number	-
Title	Secure Messaging
Abbreviation	SM
Version number	-
Release number	-
Point of Contact	Ken Graham
Vendor [optional]	By Light Professional Services, Inc.

1.3. Operational Agreement

This Interface Control Document provides the specification for all clients of SM. Any changes made to the interface must be agreed upon by the Project Managers responsible for the respective systems.

2. Interface Definition

The interface between SM and all clients is network-based using Secure HTTP (aka HTTPS) connections.

2.1. System Overview

MHV is VA's portal that provides veterans access to their personal health records (PHR). The portal provides the capability to authenticate and to provide proof of identity. It provides access to the Secure Messaging application. SM enables VA patients to exchange messages with their VA health care teams in a secure manner.

2.2. Interface Overview

The SM Application Integration defines the interaction of the various systems with the SM system. This section of the interface is composed of a system-to-system communication channel using a web service. The web services interaction does not involve an end-user's web browser session.

2.2.1. Web Service Integration

An MHV/SM user shall be able to access the SM API's through the MHV webserver and corresponding web application for the API's.

2.3. Data Transfer

The following diagram describes the transfer of data that occurs between SM API web service clients and the SM API hosted web service.
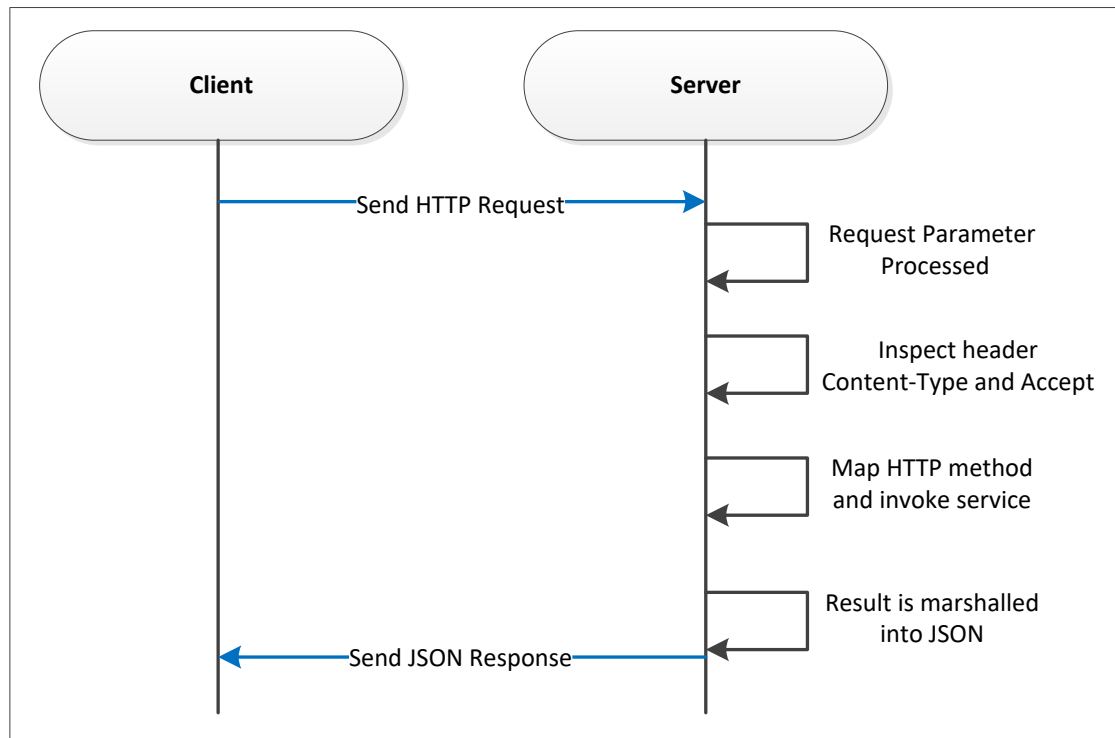
Figure 1 Data Transfer[1]

Data Transfer Standards

The following table describes data transfer standards used in the transfer of information between SM API and its clients.

Table 4

Standard	Description	Reference
HTTP	The Hyper Text Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, hypermedia information systems. HTTP is the foundation of data communication for the World Wide Web. Hypertext is a multi-linear set of objects, building a network by using logical links (the so-called hyperlinks) between the nodes (e.g. text or words). HTTP is the protocol to exchange or transfer hypertext. The common version in use is HTTP 1.1	http://tools.ietf.org/html/rfc2616

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[1] Note that this diagram does not represent request or acknowledgement messages, just the transfer of data in the context of this ICD. Also the grayed-out components and lines are respective system internal and may in actuality work different.

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HTTPS	Hypertext Transfer Protocol Secure (HTTPS or Secure HTTP) is a widely used communications protocol for secure communication over a computer network, with especially wide deployment on the Internet. Technically, it is not a protocol in itself; rather, it is the result of simply layering the Hypertext Transfer Protocol (HTTP) on top of the SSL or TLS protocol, thus adding the security capabilities of SSL or TLS to standard HTTP communications. In its typical deployment on the internet, HTTPS provides authentication of the web site and associated web server that one is communicating with, which protects against Man-in-the-middle attacks. Additionally, it provides bidirectional encryption of communications between a client and server, which protects against eavesdropping and tampering with and/or forging the contents of the communication. In practice, this provides a reasonable guarantee that one is communicating with precisely the web site that one intended to communicate with (as opposed to an impostor), as well as ensuring that the contents of communications between the user and site cannot be read or forged by any third party.	http://tools.ietf.org/html/rfc4346 (TSL 1.1) http://tools.ietf.org/html/rfc6101 (SSL 3.0)
REST	Representational State Transfer (REST) has gained widespread acceptance across the Web as a simpler alternative to SOAP and Web Services Description Language (WSDL) based Web services. Key evidence of this shift in interface design is the adoption of REST by mainstream Web 2.0 service providers—including Yahoo, Google, and Facebook—who have deprecated or passed on SOAP and WSDL based interfaces in favor of an easier-to-use, resource-oriented model to expose their services.	http://tools.ietf.org/html/rfc1945 http://tools.ietf.org/html/rfc2616
JSON	**JSON** (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.	http://www.json.org/

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2.3.1. Web Service Integration

SM API shall provide a web service interface for the exchange of REST based messages via an HTTPS connection. The web service interface will be described using a WADL specification.

2.4. Transaction Types

The interface will have the following transaction types:

Transaction Type	Description
Back-end Integration	
Synchronous	This is a system-to-system transaction. An originating system makes a synchronous request to the (other) receiving system and waits for the response. The receiving system is only a passive participant in this type of transaction. Synchronous transactions are intended to be used for situations that require immediate and quick response. They may also be used in situations where the only required response is an acknowledgement.

2.5. Data Exchanges

The following data shall be exchanged from SM API to a Client:

- A session token for a valid user and account
- A list of triage teams for the user
- A list of message category types
- A list of folders for the user
- A single folder for the user
- A paged list of messages for a folder (without body or attachment fields)
- A single message including body or attachment fields (marked with READ status)
- A list of messages representing the history of the message thread (with body and no attachment fields)

The following data will be exchanged from a Client to SM API:

- The creation (and send action) of a secure message including: encoded HTML body, Subject, Message Category, and Triage Team
- The creation (and save a draft action) of a secure message including: encoded HTML body, Subject, Message Category, and Triage Team
- The creation (and send action) of a secure message including: encoded HTML body, Subject, Message Category, Triage Team, and Attachment
- The creation (and reply action) of a secure message including: encoded HTML body, Subject, Message Category, and Triage Team
- The creation (and reply action) of a secure message including: encoded HTML body, Subject, Message Category, Triage Team, and Attachment
- The creation (and send action) of a secure message including: encoded HTML body, Subject, Message Category, Triage Team, and Attachment
- The creation of a custom user folder including: folder name
- The deletion of a custom user folder
- The deletion of a message

- The move action to a folder for a message

2.6. Precedence and Criticality

TDB

2.7. Communications Methods

Clients will exchange REST messages with SM API's and transmit/receive JSON objects. This communication does not involve any end-user browser connecting to both systems.

HTTP can provide compression of the information exchanged. HTTPS, or more precisely Secure Socket Layer (SSL)/ Transport Security Layer (TSL), shall be used to provide encryption of the information exchanged. HTTPS is used between the end-user's browser and the web server.

REST provides a mechanism to exchange data in a structured fashion following a pre-defined specification. Error recovery and guaranteed delivery are not part of the protocol. Any unexpected errors must be communicated using REST/HTTP Error codes.

The following table describes the versions of the communication standards that shall be used:

Table 5

Standard	Version	Comments
REST	Xx	
JSON	Xx	
WADL	Xx	
SSL	3.0	Prefer TSL over SSL
TSL	1.1	

2.8. Performance Requirements

The interface shall adhere to the following performance requirements:

Table 6

Requirement	Description	Rationale
Message latency	The messaging system shall provide "near real-time" responses. A 'near real-time response' is a response in 30 seconds or less, 24x7 hours of operation and within a tolerance level of 98%. The response is measured from the time the originating system sends a request to the time the response is returned to the originating system.	

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Requirement	Description	Rationale
Real-time monitoring	Both systems shall monitor real-time performance of message throughput.	Monitoring of performance is required to guarantee uninterrupted real-time performance; therefore notification of disruptions is required so that adequate real-time performance can be restored in the shortest possible period of time.
Scalability	The messaging system shall be scalable to handle increasing capacity requirements.	The messaging system architecture must enable the addition of components to handle increasing capacity without the need to redesign or replace the messaging system, which would be prohibitively expensive and time-consuming. The number of users will grow as the function is rolled-out targeting the entire user base of MHV.
Trend analysis	The messaging system shall provide trend analysis of the volume of messages.	The messaging system is required to provide awareness of situations in which the capacity of messages the system is called upon to handle has grown to approach threshold limits. Trend analysis should support the expansion of messaging system capacity before the messaging system is overloaded.

2.9. Security

All interfaces will use Secure HTTP (HTTPS) or HTTP over SSL/TSL. SM and the corresponding clients shall use simple authentication, i.e. only the server is authenticated and only the server provides a certificate to the client. The algorithmic encryption used for the SSL connection must be Federal Information Processing Standard (FIPS) Publication 140-2 compliant.

SM API shall limit access to the web service interface to requests from designated and approved applications. SM API shall create audit functionality to track system-to-system access and integration access (SM shall provide the SSL certificate to the client systems).

3. Interface Requirements

The following is an overview of the interfaces will subsequently be specified:

Interface	Purpose
Web Service Integration	Allows a valid MHV/SM user to use all the features available via the current web client.

3.1. Web Application Integration Interface

The Web Application Integration interface will support the following transactions:

Table 7

Transaction	Communication	Description
/session	Synchronous, REST over HTTPS	A client shall send a synchronous request in order to obtain a session token for a valid SM user.
/message	Synchronous, REST over HTTPS	A client shall send a synchronously request to have an action performed in the context of a secure message for a given SM user
/folder	Synchronous, REST over HTTPS	A client shall send a synchronously request to have an action performed in the context of a folder for a given SM user
/triageteam	Synchronous, REST over HTTPS	A client shall send a synchronously request to have an action performed in the context of triage teams for a given SM user

3.1.1. Interface Processing Time Requirements

The following table describes the interface processing time requirements. Note that the maximum response times are educated guesses at reasonable values. The validity of the values must be established in a (test) environment:

Table 8

Message	Maximum Response Time[1]	Requirements
/session	10 seconds	SM API shall send a response to a establish a user session request in 10 seconds or less.
/message	10 seconds	SM API shall respond to request in 10 seconds or less.
/folder	10 seconds	SM API shall respond to a request in 10 seconds or less.
/triageteam	10 seconds	SM API shall respond to request in 10 seconds or less.

[1] *Maximum Response Time* does not include network latency

3.1.2. Message Requirements

SM REST API - Version 1 (v1)

Base URL

All API URIs in this document start with the following base:

https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1

All API calls will return responses in the context of the *authenticated user* making the request.

3.1.2.1. Session Resource

The purpose of this call is to allow callers to create a session token. It also checks the policy of security related to a user within the Secure Messaging application as patient. (This session token is to be used for all subsequent calls to any API during the session of the client)

3.1.2.1.1. Creating a new session

	Resource	Description
GFT	**/session**	Establish a session token and expiration (including authorization)

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
appToken	*Required*	Application Token provided to them by MHV
mhvCorrelationId	*Required*	User's MHV correlation id (aka User Profile Id)

Parameters

None

Body

None

Response

Header

Token	*Required*	Session Token value for subsequent calls
Expires	*Required*	Session Token expiration timestamp

Body

None

Codes

200		***Successful creation of a token and expiration timestamp***
400		101 - Application authentication failed
		102 - Application authorization failed
		103 - Invalid User Credentials
		104 - Missing User Credentials
		105 - User was not found
		106 - User is not eligible because they are blocked
		107 - System unable to create token

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> 111 - Invalid user permissions (invalid user type for
>   resource requested)
> 132 - Missing application token
> 135 - User is not eligible because they have not
>   accepted terms and conditions or opted-in
> 901 - Authentication Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/session*

GET /mhv-sm-api/patient/v1/session HTTP/1.1
Content-Type: application/json
Accept: application/json
appToken: qhEH6XJucS-PO5VxDQvjK
mhvCorrelationId: 7614
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

HTTP/1.1 200 OK
Date: Thu, 26 Dec 2013 15:49:19 GMT
Content-Length: 0
Expires: Thu, 26 Dec 2013 15:54:21 GMT
Token: o7nsKRFVeijDG8u59/D6JOMrCmXMZO8p
X-Powered-By: Servlet/2.5 JSP/2.1

3.1.2.2.   Triage Team Resource

3.1.2.2.1. Retrieving a list of triage teams

The purpose of this call is to allow callers to retrieve the list of triage teams.

Resource	Description
GET /triageteam	Retrieve a list of triage teams

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

List of Triage Teams	Required	(See Appendix A – TriageTeams)

Codes

200	***Successful retrieval of Triage Teams***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	901 – Authentication Service Error
	902 - Triage Group Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/triageteam*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
```

Example Response

```
HTTP/1.1 200 OK
Date: Thu, 26 Dec 2013 15:49:21 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"triageTeam":[{"name":"Automation_Group","triageTeamId":18560,"relationType":"PATIENT"},{"name":"SM_MO
BILE_APPS_GROUP","triageTeamId":20364,"relationType":"PATIENT"},{"name":"Triage_Group_CC","triageTeamId
":19250,"relationType":"PATIENT"},{"name":"CE,TEST,SLC4","triageTeamId":18282,"relationType":"PATIENT"},{"na
me":"SM-INTB-EMAIL-TEST","triageTeamId":18880,"relationType":"PATIENT"},{"name":"SM-703-
TEST","triageTeamId":18975,"relationType":"PATIENT"},{"name":"ABC Triage Test-
3","triageTeamId":4956,"relationType":"PATIENT"},{"name":"Int_Test","triageTeamId":7547,"relationType":"PATIE
NT"},{"name":"CR_3195_Testing","triageTeamId":13363,"relationType":"PATIENT"},{"name":"testone_rajesh","tri
ageTeamId":17005,"relationType":"PATIENT"},{"name":"testforprod","triageTeamId":17021,"relationType":"PATIE
NT"},{"name":"int_a123","triageTeamId":7852,"relationType":"PATIENT"},{"name":"aaa","triageTeamId":2576,"rel
ationType":"PATIENT"},{"name":"a_Confirm test_1X","triageTeamId":2720,"relationType":"PATIENT"}
,{"name":"INT_A123a","triageTeamId":7915,"relationType":"PATIENT"},{"name":"Akin,  Barbara _ Primary, Care
Baltimore","triageTeamId":2818,"relationType":"PATIENT"},{"name":"Ken_Lisa","triageTeamId":8937,"relationTyp
e":"PATIENT"},{"name":"shankar_group","triageTeamId":9808,"relationType":"PATIENT"},{"name":"Rob's Triage
Group","triageTeamId":10964,"relationType":"PATIENT"},{"name":"Test
One","triageTeamId":12737,"relationType":"PATIENT"},{"name":"Test triage
group","triageTeamId":3016,"relationType":"PATIENT"},{"name":"abcd","triageTeamId":3282,"relationType":"PATI
ENT"},{"name":"Rob's INT-B Triage Group SLC4","triageTeamId":15133,"relationType":"PATIENT"},{"name":"this is
a test for \" inline quotes and } curly braces.","triageTeamId":12345,"relationType":"CLINIC"}]}
```

3.1.2.3. Folder Resource

3.1.2.3.1. Retrieving a list of folders

The purpose of this call is to allow callers to retrieve and perform actions on their folders.

	Resource	Description
GET	/folder	Returns a list of folders (including system and user)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

List of Folders	Required	(See Appendix A - Folders)

Codes

200	**Successful retrieval of Folders**
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	900 - Mailbox Service Error
	901 – Authentication Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/folder*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
```

Example Response

HTTP/1.1 200 OK
Date: Thu, 26 Dec 2013 15:49:26 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"folder":[{"id":0,"name":"Inbox","count":75,"unreadCount":38,"systemFolder":true,"name":"Inbox"},{"folderId":-2,"name":"Drafts","count":21,"unreadCount":10,"systemFolder":true,"name":"Drafts"},{"id":-1,"name":"Sent","count":271,"unreadCount":0,"systemFolder":true,"name":"Sent"},{"folderId":-3,"name":"Deleted","count":2,"unreadCount":1,"systemFolder":true,"name":"Deleted"},{"id":37635,"name":"abc","count":0,"unreadCount":0,"systemFolder":false,"name":"abc"},{"id":37636,"name":"abcded","count":0,"unreadCount":0,"systemFolder":false,"name":"abcded"},{"id":30843,"name":"rajesh","count":0,"unreadCount":0,"systemFolder":false,"name":"rajesh"},{"id":9234,"name":"test0","count":0,"unreadCount":0,"systemFolder":false,"name":"test0"},{"id":9388,"name":"test1","count":0,"unreadCount":0,"systemFolder":false,"name":"test1"},{"id":37638,"name":"Teste","count":0,"unreadCount":0,"systemFolder":false,"name":"Teste"},{"id":37809,"name":"Teste3","count":0,"unreadCount":0,"systemFolder":false,"name":"Teste3"},{"id":37808,"name":"Tester2","count":0,"unreadCount":0,"systemFolder":false,"name":"Tester2"},{"id":30842,"name":"testing123","count":0,"unreadCount":0,"systemFolder":false,"name":"testing123"},{"id":30844,"name":"xyz","count":0,"unreadCount":0,"systemFolder":false,"name":"xyz"}]]}

3.1.2.3.2. Retrieving a single folder

The purpose of this call is to allow callers to retrieve a single folder.

	Resource	Description
GET	**/folder/{folder id}**	Returns a single folder specified by the folder id.

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

folder id	Required	The id for the folder we would like to retrieve

Body

None		

Response

Header

None		

Body

A single folder	Required	(See Appendix A - Folder)

Codes

200	***Successful retrieval of the Folder***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	900 - Mailbox Service Error
	901 – Authentication Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/folder*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 20:10:11 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":0,"name":"Inbox","count":75,"unreadCount":38,"systemFolder":true}

3.1.2.3.3. Retrieving messages in a specific folder

The purpose of this call is to allow callers to retrieve messages for a specified folder.

	Resource	Description
GET	/folder/{folderid}/message/page/{page}/pageSize/{pageSize}	Returns a page of Messages (without body or attachment populated)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

folder id	Required	The id for the folder to retrieve messages
page	Required	The page of the messages to retrieve (base 1)
pageSize	Required	The size of how many messages per page (base 1)

Body

None

Response

Header

None

Body

Messages	*Required*	A list of Message entitites (See Appendix A - Messages)

Codes

200	*Successful retrieval of Messages*

400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	120 - The Page Number must be greater than zero
	121 - The Page Size must be greater than zero
	133 - PageSize exceeds the maximum allowed limit
	900 - Mailbox Service Error
	901 – Authentication Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/folder/0/message/page/1/pageSize/20*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 20:10:17 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"message":[{"id":41042,"category":"OTHER","subject":"DAYT3 Testing-
2","body":null,"attachment":false,"attachments":null,"sentDate":"Tue, 23 Jul 2013 15:11:29
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7609,"recipientName":"MHVTestRecipient,
Test","readReceipt":null},{"id":40431,"category":"OTHER","subject":"Message-222","body":"Responding
to Patient...\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul
2013 20:28:25 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":6177,"recipientName":"MHVSmith,
John","readReceipt":null},{"id":40414,"category":"OTHER","subject":"Message-
111","body":"\r\nResponding...\r\n\r\nABC-
1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul 2013 20:25:54
GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":6177,"recipientName":"
MHVSmith, John","readReceipt":null},{"id":39720,"category":"OTHER","subject":"General
Inquiry","body":"TTT","attachment":false,"attachments":null,"sentDate":"Tue, 09 Jul 2013 13:53:14
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient,
Test","readReceipt":"READ"},{"id":39136,"category":"OTHER","subject":"G3","body":"\r\nNew Reply to
Patient\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 13 Jun
2013 14:00:43 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":6177,"recipientName":" MHVSmith,
John","readReceipt":null},{"id":39053,"category":"OTHER","subject":"General Inquiry","body":"this is a
TEST for SLC4 TIU Call back\r\n\r\nLiana &
Kumar","attachment":false,"attachments":null,"sentDate":"Wed, 12 Jun 2013 19:34:15
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":20133,"recipientName":"MHVTEST2,
TESTER","readReceipt":"READ"},{"id":37850,"category":"OTHER","subject":"C2","body":"Replying","attach
ment":false,"attachments":null,"sentDate":"Tue, 14 May 2013 17:00:40
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient,
Test","readReceipt":"READ"},{"id":37841,"category":"OTHER","subject":"C2","body":"Replying","attachme
nt":false,"attachments":null,"sentDate":"Tue, 14 May 2013 16:39:12
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient,
Test","readReceipt":null},{"id":37834,"category":"OTHER","subject":"C4","body":"C4","attachment":false,
"attachments":null,"sentDate":"Tue, 14 May 2013 16:38:05
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient,
Test","readReceipt":null},{"id":37827,"category":"OTHER","subject":"To Triage Group AA","body":"To
Triage Group AA\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Tue, 14
May 2013 16:36:49 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":6177,"recipientName":" MHVSmith, John","readReceipt":null}]}

3.1.2.3.4. Creating a new folder

POST	**/folder**	Create a user folder

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

none

Body

Folder	*Required*	Only requires the **name field**

Response

Header

None

Body

Folder	*Required*	*Newly created Folder with id, etc.*

Codes

200	***Successful creation of Folder***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	117 - A data integrity issue was encountered
	125 - To create a folder the name is required
	126 - The folder already exists with the requested name
	127 - The folder name should only contain letters, numbers, and spaces
	900 - Mailbox Service Error
	901 – Authentication Service Error

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/folder*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
Content-Length: 75

{"id": 0, "name": "First Custom Folder", "count": "0", "unreadCount": "0"}

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1
```

3.1.2.3.5. Renaming a folder

POST /{folderId}/rename/{folderName}   Renamig of a user folder

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

folderId	*Required*	*Folder- Id of the folder to be renamed*
folderName	*Required*	*New name of the folder*

Response

Header

None

Body

Folder	*Required*	*Modified Folder information with id, etc.*

Codes

200	***Successful creation of Folder***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 – User is not the owner of the entity
	115 – Entity Not Found
	117 - A data integrity issue was encountered
	125 - To create a folder the name is required
	126 - The folder already exists with the requested name
	127 - The folder name should only contain letters, numbers, and spaces
	160 - The system folder can not be renamed
	161 - The system folder is already in use name
	900 - Mailbox Service Error
	901 – Authentication Service Error

Interface Control Document

Example Request

POST *http://~/mhv-sm-api/patient/v1/folder/6822322/rename/KhanTest*

> *Accept-Encoding: gzip,deflate*
> *Token: 100CDvA6ep3SRQ=4qJmTKlkv5KY8i4oZRHhO9KtmFRduKk/GfeFslzN8x0=*
> *Content-Type: application/json*
> *Accept: application/json*
> *Content-Length: 0*
> *Host: localhost:7001*
> *Connection: Keep-Alive*
> *User-Agent: Apache-HttpClient/4.1.1 (java 1.5)*

Example Response

> HTTP/1.1 200 OK
> Date: Mon, 25 Sep 2017 14:18:54 GMT
> Transfer-Encoding: chunked
> Content-Type: application/json
> X-Powered-By: Servlet/2.5 JSP/2.1
>
> {"id":6822322,"name":"KhanTest","count":0,"unreadCount":0,"systemFolder":false}

3.1.2.3.6. Removing a folder

DELETE	**/folder/{folderid}**	Deletes the specified **user** folder (you cannot delete system folders)

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

folder id	*Required*	The id for the user folder to delete

Body

None

Response

Header

Interface Control Document

None	

Body

None

Codes

200	***Successful deletion of User Folder***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	116 - The Folder must be empty before delete
	117 - A data integrity issue was encountered
	900 - Mailbox Service Error
	901 – Authentication Service Error

Example Request

DELETE *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1
Content-Length: 0
```

3.1.2.4. Message Resource

The purpose of this call is to allow callers to act on secure messages.

3.1.2.4.1. Retrieving a message

Resource	Description
GET /message/{messageid}/read	Marks a single Message as "READ" and also retrieves all the fields for a Message.

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

message id	Required	The id for the Message we would like to read and retrieve

Body

None

Response

Header

None

Body

Message	Required	(See Appendix A - Message)

Codes

200	*Successful retrieval of Message*
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	117 - A data integrity issue was encountered
	901 - Authentication Service Error
	904 - Message Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404/read*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
```

Example Response

Interface Control Document

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":37850,"category":"OTHER","subject":"C2","body":"Replying","attachment":false,"attachments":[],"sentDate":"Tue, 14 May 2013 17:00:40 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":7622,"recipientName":"MHVTestRecipient, Test","readReceipt":"READ"}

3.1.2.4.2. Creating a new message (without attachment)

Resource		Description
POST /message		Sends a new or draft secure message (without attachments)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

Message	Required	A Message with the id and other fields set. (If the id field is populated then the reply action performs as if it were a draft message) (See Appendix A - Message)

Codes

200		*Successful retrieval of Message*
400		100 - The message body cannot be blank
		102 - Application authorization failed
		108 - Missing session token
		109 - Invalid session token
		110 - Expired session token
		111 - Invalid user permissions
		117 - A data integrity issue was encountered (DRAFT)
		119 - Triage team does not exist (DRAFT)
		128 - The message you are attempting to send is not a draft (DRAFT)
		901 - Authentication Service Error

Interface Control Document

902 - Triage Group Service Error
903 - Send Message Service Error
904 - Message Service Error (DRAFT)

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-aliveContent-Length: 113


{"category": "OTHER", "subject": "Post via APIs", "body": "Testing Post T1386793800834",
"recipientId": "20364","recipientName":"MHVTestRecipient, Test"}
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 21:39:56 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":37834,"category":"OTHER","subject":"C4","body":"C4","attachment":false,"attachments":null,"
sentDate":"Tue, 14 May 2013 16:38:05 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient, Test","readReceipt":null}
```

3.1.2.4.3. Creating a new message (with attachment)

	Resource	Description
POST	**/message/attach**	Sends a new or draft secure message (with attachments)

Request

Header

Content-type	Required	multipart/form-data
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body (multipart/form-data)

Content-ID: message	Required	The Message to send. (If the id field is populated then the reply action performs as if it were a draft message)

(See Appendix A - Message)

Content-ID: file	*Required*	Binary file attachment

Response

Header
None

Body

Message	*Required*	A Message with the id and other fields set (See Appendix A - Message)

Codes

200	***Successful retrieval of Message***
400	100 - The message body cannot be blank
	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	113 - Unable to read attachment
	117 - A data integrity issue was encountered (DRAFT)
	119 - Triage team does not exist (DRAFT)
	122 - The attachment file type is currently not supported
	123 - The filename is a required parameter
	124 - The attachment file size exceeds the supported size limits
	128 - The message you are attempting to send is not a draft (DRAFT)
	901 - Authentication Service Error
	902 - Triage Group Service Error
	903 - Send Message Service Error
	904 - Message Service Error

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/attach*

```
POST /mhv-sm-api/patient/v1/message/attach HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: multipart/form-data; boundary="----=_Part_7_22572641.1391727736568"
MIME-Version: 1.0
Token: sjW+xCb1qHA=Osz6zS9Srb+bD+UHwamSk7wRZZ285fZsoIhn13kqUEE=
Content-Length: 1358
Host: sm.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
------=_Part_7_22572641.1391727736568
Content-Type: application/json; name=message
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="message"; filename="message"

{
  "category": "MEDICATIONS",
  "subject": "Send Msg via API with Attachment",
  "body": "Test Send a Message to Grp",
  "recipientId": 45961,
  "recipientName": "TEST TRIAGE"
}
------=_Part_7_22572641.1391727736568
Content-Type: image/x-png; name=accept.png
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="accept.png"; filename="accept.png"

‰PNG
```

Note: Implement allowed file type verification.

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 21:45:00 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":224107,"category":"MEDICATIONS","subject":"Post via APIs","body":"Testing Post
T1386793808027","attachments":{"attachment":[{"id":224105,"name":"accept.png"}]},"recipientId":2036
4,"recipientName":"SM_MOBILE_APPS_GROUP","sentDate":"Wed, 11 Dec 2013 20:30:10 GMT"}
```

3.1.2.4.4. Creating a new message (draft no attachment)

POST ▸ **/message/draft**   Saves a message as a draft (without attachments)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body

Message	Required	A Message with the id optional and other fields set. (If the id field is populated then the draft message is updated) (See Appendix A - Message)

Response

Header

None

Body

Message	Required	A Message with the id and other fields set. (See Appendix A - Message)

Codes

200	***Successful retrieval of Message***
400	100 - The message body cannot be blank 102 - Application authorization failed 108 - Missing session token 109 - Invalid session token 110 - Expired session token 111 - Invalid user permissions 117 - A data integrity issue was encountered 134 - The message you are attempting to save is not a draft 901 - Authentication Service Error 902 - Triage Group Service Error 903 - Send Message Service Error 904 - Message Service Error

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/draft*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-aliveContent-Length: 113

{"category": "OTHER", "subject": "Post via APIs Draft Message", "body": "Testing Post T14386793800834", "recipientId": "20364","recipientName":"MHVTestRecipient, Test"}

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Interface Control Document

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 21:39:56 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1


{"id":37834,"category":"OTHER"," Post via APIs Draft Message ":"C4","body":"C4",
"attachment":false,"attachments":null,"sentDate":"Tue, 14 May 2013 16:38:05
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient, Test","readReceipt":null}
```

3.1.2.4.5. Retrieving the attachment for a message

Resource	Description
GET **/message/{messageid}/attachment/{attachmentid}**	Retrieves a single attachment for the specified message id and attachment id

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

message id	*Required*	The id for the message with the attachment
attachment id	*Required*	The id for the desired attachment to retrieve

Body

None

Response

Header

None

Body

Attachment	*Required*	Binary Attachment

Codes

200	***Successful retrieval of Message***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 – Entity not found

Interface Control Document

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404/attachment/24234*

> *Content-Type: application/json*
> *Accept: application/json*
> *Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX*
> *User-Agent: Apache CXF 2.7.7*
> *Cache-Control: no-cache*
> *Pragma: no-cache*
> *Host: sm.myhealth.va.gov*
> *Connection: keep-alive*

Example Response

> *HTTP/1.1 200 OK*
> *Date: Thu, 16 Jan 2014 17:33:03 GMT*
> *Transfer-Encoding: chunked*
> *Content-Length: 470*
> *Content-Type: application/octet-stream*
> *Content-Disposition: attachment; filename=triangleicon.jpg*
> *X-Powered-By: Servlet/2.5 JSP/2.1*
>
> ÿØÿàJFIF``ÿÛC
>
> ÿÛC ÿÀ   ÿÄ
>   ÿÄ%
>
> 1Q!AR'BÿÄ
> ÿÄ   Q!"ÿÚ
>   ?Þ1^"•išëÑã=5íHÛ1XJ¤»jõ-VŸÇŽ4¬IaÅ7ÉâmÜ¢;o�Ð^LÚ<öV�úNhñŠjõ+
> mè?'!‹eÞ[ÊÏÒ)�šÏíŒ|Š/l•|S¸«ùÓô¢Á;LS'we„f?– ÷pÎ²Ùs£i†�\ÃBŠ*¢*ò´�sèºw¦ßª|©Ý½M@9¯5®¥Z•ÿÙ --

3.1.2.4.6. Deleting a message

Resource	Description
DELETE /message/{messageid}	Deletes the specified message (for draft messages they are removed from the database; whereas for all other messages they are placed into the deleted folder)

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

message id	*Required*	The id for the message to delete

Body

None

Response

Header

None

Body

None

Codes

200	***Successful deletion of Message***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	114 - Unable to move message
	115 - Entity not found
	117 - A data integrity issue was encountered
	118 - It is not possible to move a message from the DRAFTS folder
	900 - Mailbox Service Error
	901 – Authentication Service Error
	904 - Message Service Error

Example Request

DELETE *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404*

> *Content-Type: application/json*
> *Accept: application/json*
> *Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX*
> *User-Agent: Apache CXF 2.7.7*
> *Cache-Control: no-cache*
> *Pragma: no-cache*
> *Host: sm.myhealth.va.gov*
> *Connection: keep-alive*

Example Response

Interface Control Document

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1
Content-Length: 0
```

3.1.2.4.7. Creating a reply to a message (without attachment)

Resource		Description
POST /message/{messageid}/reply		Replies to a message with a new or draft secure message (without attachments)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

message id	Required	The id for the message context we would like to reply.

Body

Message	Required	The Message with the field **body** populated. (If the id field is populated then the reply action performs as if it were a draft message)

Response

Header

None		

Body

Message	Required	(See Appendix A - Message) (only subject and body are required)

Codes

200		***Successful reply to the Message***
400		100 - The message body cannot be blank
		102 - Application authorization failed
		108 - Missing session token
		109 - Invalid session token
		110 - Expired session token
		111 - Invalid user permissions
		117 - A data integrity issue was encountered (DRAFT)
		128 - The message you are attempting to send is not a draft (DRAFT)
		129 - Unable to reply because you are no longer associated with this Triage Team
		131 - Unable to reply to a message that is a draft

901 - Authentication Service Error
902 - Triage Group Service Error
903 - Send Message Service Error
904 - Message Service Error (DRAFT)

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404/reply*

> *Content-Type: application/json*
> *Accept: application/json*
> *Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX*
> *User-Agent: Apache CXF 2.7.7*
> *Cache-Control: no-cache*
> *Pragma: no-cache*
> *Host: sm.myhealth.va.gov*
> *Connection: keep-alive*
>
> *{"body": "Testing Post T1386793800834"}*

Example Response

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":22404,"category":"OTHER","subject":"DAYT3 Testing-2","body":"replying to patient...\r\n\r\n\r\n\r\njohnnie\r\ntester","attachments":[],"recipientId":19250,"recipientName":"Triage _Group_CC","sentDate":"Tue, 23 Jul 2013 15:11:29 GMT"}

3.1.2.4.8. Creating a reply to a message (with attachment)

Resource	Description
POST **/message/{messageid}/reply/attach**	Replies to a message with a new or draft secure message (with attachment)

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

message id	*Required*	The id for the message context we would like to reply.

Body (multipart/form-data)

Content-ID: message	*Required*	The Message to send. (If the id field is populated then the reply action performs as if it were a draft message)

Interface Control Document

		(See Appendix A - Message)
Content-ID: file	*Required*	Binary file attachment
Message	*Required*	The Message with the field **body** populated. (If the id field is populated then the reply action performs as if it were a draft message)

Response

Header

None		

Body

Message	*Required*	A Message with the id and other fields set (See Appendix A - Message)

Codes

200	***Successful reply to the Message***
400	100 - The message body cannot be blank
	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	117 - A data integrity issue was encountered (DRAFT)
	122 - The attachment file type is currently not supported
	123 - The filename is a required parameter
	124 - The attachment file size exceeds the supported size limits
	128 - The message you are attempting to send is not a draft (DRAFT)
	129 - Unable to reply because you are no longer associated with this Triage Team
	131 - Unable to reply to a message that is a draft
	901 - Authentication Service Error
	902 - Triage Group Service Error
	903 - Send Message Service Error
	904 - Message Service Error (DRAFT)

Example Request

POST *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/53313/reply*/attach

```
POST /mhv-sm-api/patient/v1/message/53313/reply/attach HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: multipart/form-data; boundary="----=_Part_7_22572641.1391727736568"
MIME-Version: 1.0
Token: sjW+xCb1qHA=Osz6zS9Srb+bD+UHwamSk7wRZZ285fZsoIhn13kqUEE=
Content-Length: 1358
Host: sm.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

------=_Part_7_22572641.1391727736568
Content-Type: application/json; name=message
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="message"; filename="message"

{
  "category": "MEDICATIONS",
  "subject": "Send Msg via API with Attachment",
  "body": "Test Send a Message to Grp",
  "recipientId": 45961,
  "recipientName": " TEST TRIAGE"
}
------=_Part_7_22572641.1391727736568
Content-Type: image/x-png; name=accept.png
Content-Transfer-Encoding: binary
Content-Disposition: form-data; name="accept.png"; filename="accept.png"

‰PNG
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"id":224107,"category":"MEDICATIONS","subject":"Post via APIs","body":"Testing Post
T1386793808027","attachments":{"attachment":[{"id":224105,"name":"accept.png"}]},"recipientId":2036
4,"recipientName":"SM_MOBILE_APPS_GROUP","sentDate":"Wed, 11 Dec 2013 20:30:10 GMT"}
```

3.1.2.4.9. Updating folder membership for a message

Resource	Description
POST /message/{messageid}/move/tofolder/{folderid}	Moves a message to a folder

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

message id	Required	The id for the message to move
folder id	Required	The id for a target folder (user or system)

Body

None

Response

Header

None

Body

None

Codes

200	***Successful move of the Message***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	114 - Unable to move message
	115 - Entity not found
	117 - A data integrity issue was encountered
	118 - It is not possible to move a message from the DRAFTS folder
	900 - Mailbox Service Error
	901 – Authentication Service Error
	904 - Message Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404/move/-2*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

Interface Control Document

```
HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1
```

3.1.2.4.10. Retrieving messages in a thread

	Resource	Description
GET	/message/{messageid}/history	Retrieves a list of messages on the specified message's thread context (in reverse chronological order)

Request

Header

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

message id	Required	The id for the message history to retrieve

Body

None

Response

Header

None

Body

Messages	Required	List of Messages populated with all except attachment details (See Appendix A – Messages)

Codes

200	*Successful retrieval of Message History list*
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	901 - Authentication Service Error
	904 - Message Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/22404/history*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"message":[{"id":41042,"category":"OTHER","subject":"DAYT3 Testing-2","body":"replying to
patient...\r\n\r\n\r\n\r\njohnnie\r\ntester","attachment":false,"attachments":null,"sentDate":"Tue, 23 Jul
2013 15:11:29 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7609,"recipientName":"MHVTestRecipient,
Test","readReceipt":null},{"id":40431,"category":"OTHER","subject":"Message-222","body":"Responding
to Patient...\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul
2013 20:28:25 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":6177,"recipientName":"MHVSmith,
John","readReceipt":null},{"id":40414,"category":"OTHER","subject":"Message-
111","body":"\r\nResponding...\r\n\r\nABC-
1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul 2013 20:25:54
GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":6177,"recipientName":"
MHVSmith, John","readReceipt":null},{"id":39720,"category":"OTHER","subject":"General
Inquiry","body":"TTT","attachment":false,"attachments":null,"sentDate":"Tue, 09 Jul 2013 13:53:14
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":7622,"recipientName":"MHVTestRecipient,
Test","readReceipt":"READ"},{"id":39136,"category":"OTHER","subject":"G3","body":"\r\nNew Reply to
Patient\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 13 Jun
2013 14:00:43 GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":6177,"recipientName":" MHVSmith,
John","readReceipt":null},{"id":39053,"category":"OTHER","subject":"General Inquiry","body":"this is a
TEST for SLC4 TIU Call back\r\n\r\nLiana &
Kumar","attachment":false,"attachments":null,"sentDate":"Wed, 12 Jun 2013 19:34:15
GMT","senderId":7614,"senderName":"mhvjteste,
Teste","recipientId":20133,"recipientName":"MHVTEST2, TESTER","readReceipt":"READ"}]}

3.1.2.4.11. Retrieving a list of message categories (subject types)

	Resource	Description
GET	**/message/category**	Retrieve a list of message categories (Subject types)

Request

Header

Interface Control Document

Content-type	Required	application/json
Accept	Required	application/json
Token	Required	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

List of MessageCategoryType	Required	(See Appendix A – MessageCategoryTypes)

Codes

200	***Successful retrieval of Triage Teams***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/message/category*

Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive

Example Response

HTTP/1.1 200 OK
Date: Mon, 13 Jan 2014 17:14:41 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"messageCategoryType":["OTHER","APPOINTMENTS","MEDICATIONS","TEST_RESULTS"]}

3.1.2.4.12. Search Messages in a Folder

Resource	Description

POST	**/folder/{folderid}/searchMessage/ page/{page}/pageSize/{pageSize}**	Retrieves a list of messages in a folder based on the search criteria.

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

folder id	*Required*	The id of the user's folder (0 – Inbox, -1 Sent, -2 Drafts, -3 Deleted)

Body

MessageSearchFormTO	*Required*	(See Appendix A – MessageSearchFormTO)

Response

Header

None

Body

Messages	*Required*	List of Messages populated with all except attachment details (See Appendix A – Messages)

Codes

200	***Successful retrieval of Search Message History list***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	112 - User is not owner of entity requested
	115 - Entity not found
	901 - Authentication Service Error
	904 - Message Service Error

Example Request

GET *https://smclinician.myhealth.va.gov/mhv-sm-api/patient/v1/folder/0/searchMessage/page/1/pageSize/25*

```
Content-Type: application/json
Accept: application/json
Token: o7nsKRFVeijvSOFavdBXbW5C0pi6JbMX
User-Agent: Apache CXF 2.7.7
Cache-Control: no-cache
Pragma: no-cache
Host: sm.myhealth.va.gov
Connection: keep-alive
```

Example Response

HTTP/1.1 200 OK
Date: Tue, 10 Dec 2013 19:54:28 GMT
Transfer-Encoding: chunked
Content-Type: application/json
X-Powered-By: Servlet/2.5 JSP/2.1

{"message":[{"id":41042,"category":"OTHER","subject":"DAYT3 Testing-2","body":"replying to patient...\r\n\r\n\r\n\r\njohnnie\r\ntester","attachment":false,"attachments":null,"sentDate":"Tue, 23 Jul 2013 15:11:29 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":7609,"recipientName":"MHVTestRecipient, Test","readReceipt":null},{"id":40431,"category":"OTHER","subject":"Message-222","body":"Responding to Patient...\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul 2013 20:28:25 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":6177,"recipientName":"MHVSmith, John","readReceipt":null},{"id":40414,"category":"OTHER","subject":"Message-111","body":"\r\nResponding...\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 11 Jul 2013 20:25:54 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":6177,"recipientName":" MHVSmith, John","readReceipt":null},{"id":39720,"category":"OTHER","subject":"General Inquiry","body":"TTT","attachment":false,"attachments":null,"sentDate":"Tue, 09 Jul 2013 13:53:14 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":7622,"recipientName":"MHVTestRecipient, Test","readReceipt":"READ"},{"id":39136,"category":"OTHER","subject":"G3","body":"\r\nNew Reply to Patient\r\n\r\n\r\nABC-1456\r\nTest","attachment":false,"attachments":null,"sentDate":"Thu, 13 Jun 2013 14:00:43 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":6177,"recipientName":" MHVSmith, John","readReceipt":null},{"id":39053,"category":"OTHER","subject":"General Inquiry","body":"this is a TEST for SLC4 TIU Call back\r\n\r\nLiana & Kumar","attachment":false,"attachments":null,"sentDate":"Wed, 12 Jun 2013 19:34:15 GMT","senderId":7614,"senderName":"mhvjteste, Teste","recipientId":20133,"recipientName":"MHVTEST2, TESTER","readReceipt":"READ"}]}

3.1.2.5. Preferences Resource

3.1.2.5.1. Get Notification Preferences

	Resource	Description
GET	**/preferences/notification**	Retrieve User's notification preferences

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

None

Body

Interface Control Document

None

Response

Header
None

Body

NotificationStatusTO	*Required*	(See Appendix A – NotificationStatusTO)

Codes

200	*Successful retrieval*
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions

Example Request

GET *https://~/mhv-sm-api/patient/v1/preferences/notification*

```
Accept-Encoding: gzip,deflate
Token: 110mjO2HlnzSVg=vzfvF55E6hkzQlEaWM+cfPrUFE8ZuDWXLNZrCssFLpo=
Accept: application/json
Content-Type: application/json
Host: smclinician-intb.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 07 Feb 2017 16:08:56 GMT
Server: Apache/2.2.15 (Red Hat)
X-Frame-Options: SAMEORIGIN
X-Powered-By: Servlet/2.5 JSP/2.1
Connection: close
Transfer-Encoding: chunked
Content-Type: application/json

{"emailAddress":"test@va.gov","notifyMe":"Once daily"}
```

Interface Control Document

3.1.2.5.2. Notification Preferences List

Resource		Description
GET	**/preferences/notification/list**	Retrieves eliigble notification preferences list

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

JSON	*Required*	(See example Response)

Codes

200		***Successful retrieval***
400		102 - Application authorization failed
		108 - Missing session token
		109 - Invalid session token
		110 - Expired session token
		111 - Invalid user permissions

Example Request

GET *https://~/mhv-sm-api/patient/v1/preferences/notification/list*

Accept-Encoding: gzip,deflate
Token: 110NBUjUx/fP0E=ffQbrMhWEmge68pjlCOL4UhfdSX2lQK5FrRxsX/uD78=
Content-Type: application/json
Accept: application/json
Host: smclinician-intb.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 07 Feb 2017 16:17:46 GMT
Server: Apache/2.2.15 (Red Hat)
X-Frame-Options: SAMEORIGIN
X-Powered-By: Servlet/2.5 JSP/2.1
Connection: close
Transfer-Encoding: chunked
Content-Type: application/json

{"0":"None","1":"Each message","2":"Once daily"}
```

3.1.2.5.3. Set Notification Preferences

Resource		Description
POST	**/preferences/notification**	
		Set User's notification preferences

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

None

Body

NotificationStatusTO	*Required*	(See Appendix A – NotificationStatusTO)

Response

Header

None

Body

None

Codes

200	*Successful*
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions
	152 - Invalid Email Address
	155 - Invalid Notification Frequency

Interface Control Document

Example Request

POST *https://~/mhv-sm-api/patient/v1/preferences/notification*

```
Accept-Encoding: gzip,deflate
Token: 1109JybVwNoIrY=X948jN4EAKd68csu+nGFMaKUbVpLXNNmKaxVKPQFcag=
Accept: application/json
Content-Type: application/json
Content-Length: 46
Host: smclinician-intb.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

{"emailAddress":"test@va.gov",
"notifyMe":"2"}
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 07 Feb 2017 16:24:32 GMT
Server: Apache/2.2.15 (Red Hat)
X-Frame-Options: SAMEORIGIN
Content-Length: 0
X-Powered-By: Servlet/2.5 JSP/2.1
Connection: close
Content-Type: text/plain; charset=UTF-8
```

3.1.2.5.4. Get Signature Preferences

	Resource	Description
GET	**/preferences/signature**	Retrieve User's signature preferences

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

None

Body

None

Response

Header

None

Body

NotificationStatusTO	*Required*	(See Appendix A – NotificationStatusTO)

Codes

200	*Successful retrieval*
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token
	110 - Expired session token
	111 - Invalid user permissions

Example Request

GET *https://~/mhv-sm-api/patient/v1/preferences/signature*

```
Accept-Encoding: gzip,deflate
Token: 110mjO2HlnzSVg=vzfvF55E6hkzQlEaWM+cfPrUFE8ZuDWXLNZrCssFLpo=
Accept: application/json
Content-Type: application/json
Host: smclinician-intb.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 07 Feb 2017 16:44:12 GMT
Server: Apache/2.2.15 (Red Hat)
X-Frame-Options: SAMEORIGIN
X-Powered-By: Servlet/2.5 JSP/2.1
Connection: close
Transfer-Encoding: chunked
Content-Type: application/json

{"signatureName":"test-api Name","includeSignature":true,"signatureTitle":"test-api title"}
```

3.1.2.5.5. Set Signature Preferences

	Resource	Description
POST	**/preferences/signature**	Set User's signature preferences

Request

Header

Content-type	*Required*	*application/json*
Accept	*Required*	*application/json*
Token	*Required*	Session Token created in /session call

Parameters

None

Interface Control Document

Body			
NotificationStatusTO	*Required*		(See Appendix A – NotificationStatusTO)

Response

Header

None

Body

None

Codes	
200	***Success***
400	102 - Application authorization failed
	108 - Missing session token
	109 - Invalid session token1
	110 - Expired session token
	111 - Invalid user permissions
	117 - A data integrity issue was encountered
	154 - Email Signature Name and Title is required
	904 - Message Service Error

Example Request

POST *https://~/mhv-sm-api/patient/v1/preferences/signature*

```
Accept-Encoding: gzip,deflate
Token: 110xI40MqVKgC4=DNG2IkYTDtZ1K0+szDnHpuaiWNzT7Sr8VtQSBIUgneE=
Content-Type: application/json
Accept: application/json
Content-Length: 96
Host: smclinician-intb.myhealth.va.gov
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

{"signatureName":"test-api name",
"signatureTitle":"test-api title2",
"includeSignature":true
}
```

Example Response

```
HTTP/1.1 200 OK
Date: Tue, 07 Feb 2017 16:47:24 GMT
Server: Apache/2.2.15 (Red Hat)
X-Frame-Options: SAMEORIGIN
Content-Length: 0
X-Powered-By: Servlet/2.5 JSP/2.1
Connection: close
Content-Type: text/plain; charset=UTF-8
```

3.1.3. Error Codes & Responses

The SM API will attempt to return the appropriate HTTP status codes for every request.
Each error response of 400 will result in the body containing an **Error** object. (See Appendix A - Error)

Code	Text	Description
200	**OK**	Success!
400	**Application Error**	An application error occurred:
		99 - Unknown application error occurred
		100 - The message body cannot be blank
		101 - Application authentication failed
		102 - Application authorization failed
		103 - Invalid User Credentials
		104 - Missing User Credentials
		105 - User was not found
		106 - User is not eligible because they are blocked
		107 - System unable to create token
		108 - Missing session token
		109 - Invalid session token
		110 - Expired session token
		111 - Invalid user permissions (invalid user type for resource requested)
		112 - User is not owner of entity requested
		113 - Unable to read attachment
		114 - Unable to move message
		115 - Entity not found
		116 - The Folder must be empty before delete
		117 - A data integrity issue was encountered
		118 - It is not possible to move a message from the DRAFTS folder
		119 - Triage team does not exist
		120 - The Page Number must be greater than zero
		121 - The Page Size must be greater than zero
		122 - The attachment file type is currently not supported
		123 - The filename is a required parameter
		124 - The attachment file size exceeds the supported size limits
		125 - To create a folder the name is required
		126 - The folder already exists with the requested name
		127 - The folder name should only contain letters, numbers, and spaces
		128 - The message you are attempting to send is not a draft
		129 - Unable to reply because you are no longer associated with this Triage Team
		130 - Unable to reply because the source message is expired
		131 - Unable to reply to a message that is a draft
		132 - Missing application token
		133 - PageSize exceeds the maximum allowed limit
		134 - The message you are attempting to save is not a draft
		135 - User is not eligible because they have not accepted terms and conditions or opted-in
		900 - Mailbox Service Error
		901 - Authentication Service Error
		902 - Triage Group Service Error
		903 - Send Message Service Error

	904 - Message Service Error	
503	**Internal Error**	Internal System Level Error
404	**Not Found**	Unable to find resource being requested

3.1.4. Communication Methods

MHV/SM and their clients shall communicate directly using JSON over HTTPS. Any application or service errors should be part of the response message using the Error object represented with JSON and a response code of 400. Any unexpected errors will be communicated using the error codes of other 403, 404, 503, etc. code responses.

Interface Initiation

To initiate a connection the Client sends a REST message to the SM API web service using the designated host address and port number. The host address and port number shall be configurable.

3.1.5. Security Requirements

The interface relies on the network connections and firewalls through which the systems are connected. The transport of messages shall be protected by using Secure HTTP (or HTTPS)

The SM API shall provide an audit trail for connections made between systems, as well as attempts to connect.

4. Interface Verification

The following qualification methods will be used to verify that requirements have been met:

- Demonstration - The operation of interfacing entities that rely on observable functional operation.
- Test - The operation of interfacing entities that involve system-to-system communication using audit information and monitoring tools.

Interface Control Document

5. Appendix A – Data Elements

5.1. Data Structures Single Entity

5.1.1. Attachment

- Long id
- String name

5.1.2. Folder

- Long id
- String name
- Integer count
- Integer unreadCount
- Boolean isSystemFolder

Action	Required fields
Create a user folder	name

5.1.3. Message

- Long id
- Long senderId
- String senderName
- Long recipientId
- reString recipientName
- MessageCategoryType category *(see MessageCategoryType)*
- String subject
- String body
- Date sentDate
- Boolean attachment
- Attachments attachments
- String readReceipt
  - *"READ" or null*

Action	Required fields
Send **draft** message	id, recipientId, category, subject, body
Reply **draft** message	id, body
Send message	recipientId, category, subject, body
Send reply	body

5.1.4. Triageteam

- String name
- Long id
- RelationTypeEnum relationType
  - *PRIMARY_PROVIDER*
  - *CLINIC*
  - *TEAM*
  - *FACILITY*
  - *VISN*

Interface Control Document

- o *GLOBAL*
- o *PATIENT*

5.1.5. MessageCategoryType

- String category
  - o *OTHER*
  - o *APPOINTMENTS*
  - o *MEDICATIONS*
  - o *TEST_RESULTS*

5.1.6. Error

- Integer errorCode
- String errorMessage
- String developerMessage

5.1.7. NotificationStatusTO

- emailAddress : String
- notifyMe : String
- signatureName : String
- includeSignature : Boolean
- signatureTitle : String

5.1.8. MessageSearchFormTO

- exactSearch : Boolean
- senderName : String
- recipientName : String
- subject : String
- category : String
- messageId : Long
- fromDate: Date
- toDate: Date

5.2. Data Structures Array Entity (Collections)

5.2.1. Attachments

- Array of Attachment entities

5.2.2. Folders

- Array of Folder entities

5.2.3. Messages
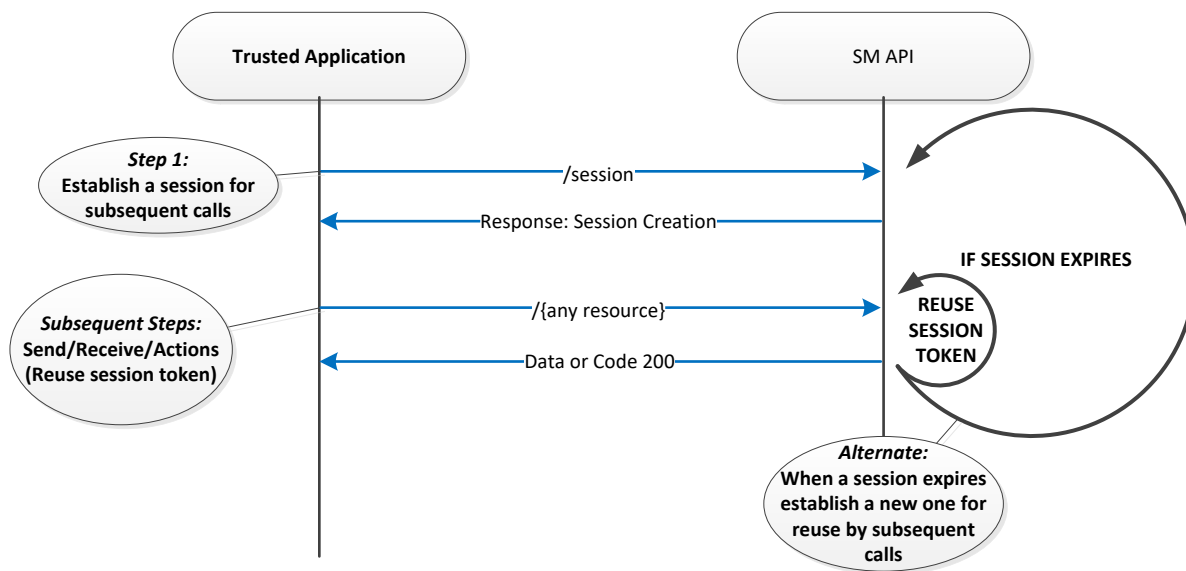
- Array of Message entities

5.2.4. TriageTeams

- Array of Triageteam entities

5.2.5. MessageCategoryTypes

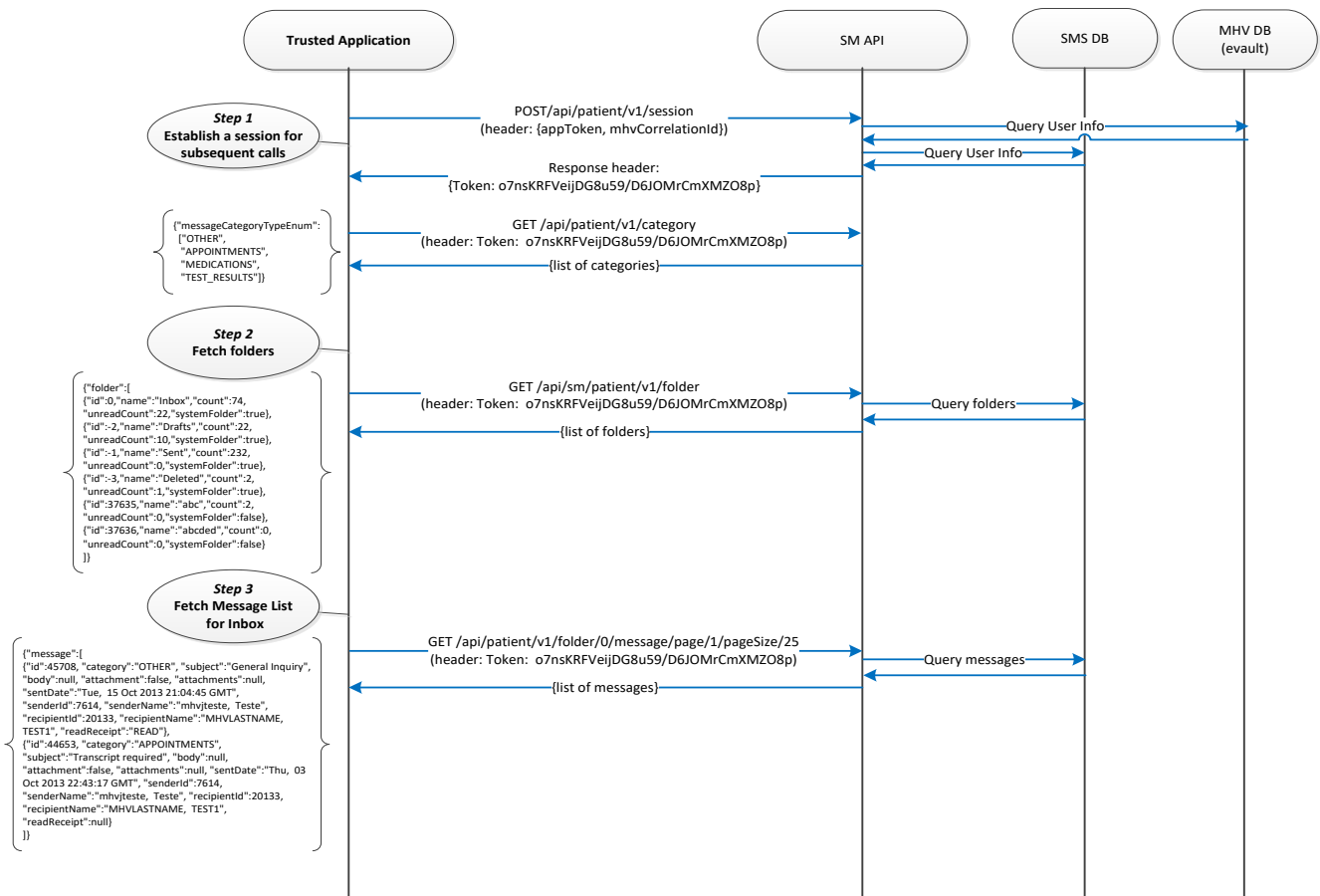- Array of MessageCategoryType entities

6. Appendix B – Sequence Diagrams

6.1. Typical flow: series of calls to the API's

6.2. A specific flow: Retrieve the first page of messages from the Inbox

Scenario: view Inbox messages

Trusted Application — **SM API** — **SMS DB** — **MHV DB (evault)**

Step 1
Establish a session for subsequent calls

POST/api/patient/v1/session
(header: {appToken, mhvCorrelationId})

Query User Info

Query User Info

Response header:
{Token: o7nsKRFVeijDG8u59/D6JOMrCmXMZO8p}

{"messageCategoryTypeEnum":
["OTHER",
"APPOINTMENTS",
"MEDICATIONS",
"TEST_RESULTS"]}

GET /api/patient/v1/category
(header: Token: o7nsKRFVeijDG8u59/D6JOMrCmXMZO8p)

{list of categories}

Step 2
Fetch folders

{"folder":[
{"id":0,"name":"Inbox","count":74,
"unreadCount":22,"systemFolder":true},
{"id":-2,"name":"Drafts","count":22,
"unreadCount":10,"systemFolder":true},
{"id":-1,"name":"Sent","count":232,
"unreadCount":0,"systemFolder":true},
{"id":-3,"name":"Deleted","count":2,
"unreadCount":1,"systemFolder":true},
{"id":37635,"name":"abc","count":2,
"unreadCount":0,"systemFolder":false},
{"id":37636,"name":"abcded","count":0,
"unreadCount":0,"systemFolder":false}
]}

GET /api/sm/patient/v1/folder
(header: Token: o7nsKRFVeijDG8u59/D6JOMrCmXMZO8p)

Query folders

{list of folders}

Step 3
Fetch Message List
for Inbox

{"message":[
{"id":45708, "category":"OTHER", "subject":"General Inquiry",
"body":null, "attachment":false, "attachments":null,
"sentDate":"Tue, 15 Oct 2013 21:04:45 GMT",
"senderId":7614, "senderName":"mhvjteste, Teste",
"recipientId":20133, "recipientName":"MHVLASTNAME,
TEST1", "readReceipt":"READ"),
{"id":44653, "category":"APPOINTMENTS",
"subject":"Transcript required", "body":null,
"attachment":false, "attachments":null, "sentDate":"Thu, 03
Oct 2013 22:43:17 GMT", "senderId":7614,
"senderName":"mhvjteste, Teste", "recipientId":20133,
"recipientName":"MHVLASTNAME, TEST1",
"readReceipt":null}
]}

GET /api/patient/v1/folder/0/message/page/1/pageSize/25
(header: Token: o7nsKRFVeijDG8u59/D6JOMrCmXMZO8p)

Query messages

{list of messages}

7. Appendix C – RESTful API Call Requirements

7.1. Making requests: JSON escaping

It is critical that all calls made to the SM API are properly escaped otherwise an error will result. This normally only becomes an issue where calls are crafted "by hand" in lieu of using a library that would passively handle all escaping requirements.

The only charactors that **must** be escaped are \ (backslash), " (double quote), and any control codes (less than U+0020).

See the JSON RFC for more information.

Interface Control Document

8. Appendix D - Acronyms

Acronym	Definition
API	Application Programming Interface
EHR	Electronic Health Record
FIPS	Federal Information Processing Standard
HLA	HealtheLiving Assessment
HTTP	Hyper Text Transfer Protocol
HTTPS	Secure Hyper Text Transfer Protocol
ICD	Interface Control Document
JSON	JavaScript Object Notation
MHV	My Health*e*Vet
MSM	Mobile Secure Messaging
MVI	Master Veteran Index
PHR	Personal Health Records
REST	Representational State Transfer
SM	Secure Messaging
SOAP	Simple Object Access Protocol
SSL	Secure Socket Layer
TSL	Transport Security Layer
VA	Department of Veteran Affairs
VAMC	VA Medical Center
VistA	Veterans Health Information Systems and Technology Architecture
WSDL	Web Services Description Language