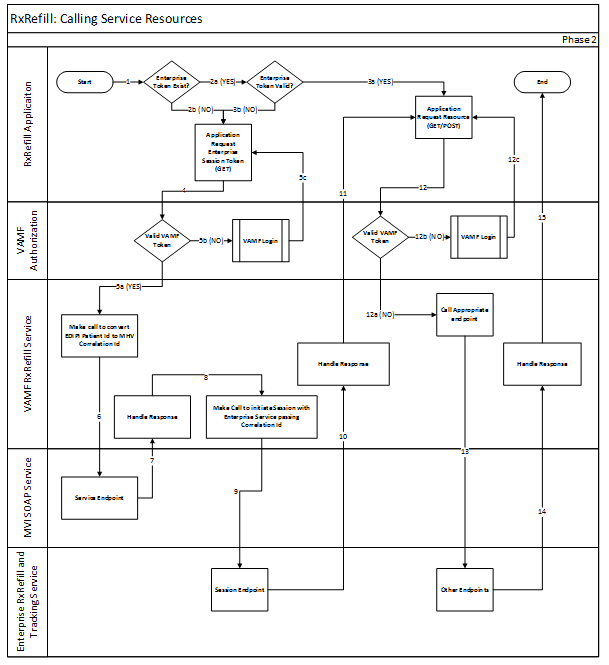
# Rx Refill (RXR) Service Interface Control Document (ICD)

**Department of Veterans Affairs**   
**Mobile Applications (Apps) Phase Two (MAP2)**  
**Rx Refill - Prescription Refill**   
**Interface Control Document**   
**November 2015**   
**Software Version 2.0**  
 

# Introduction

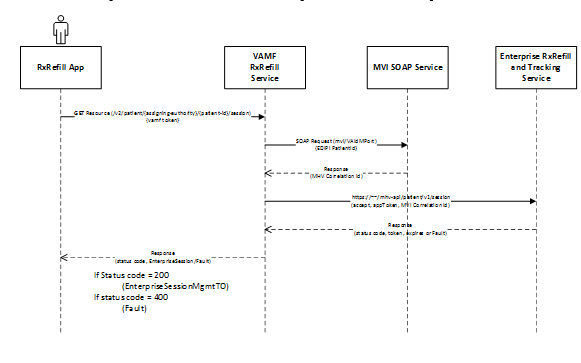
The VA Mobile Framework (VAMF) Prescription (Rx) Refill application requires a web service created in order to fulfill the requirements of displaying the status of the Veteran's Rx Medication, expected delivery date, and relevant mail tracking information with links to the delivery service (United States Postal Service (USPS)), FedEx and United Parcel Service. This service will help support the application and allow the Veteran to obtain all the necessary information about their prescription without having to phone a VAMC directly. This service will not only provide an interface for data needed for the VAMF Rx Refill application it will also make use of a newly created Enterprise Rx Refill and Tracking Service being provided by the My Health**e**Vet Product Development team. The VAMF Rx Refill Service will integrate into the VAMF's security infrastructure and provide an adapter and session management administration with the Enterprise service. A very important consideration for the need and use of this service was also to leverage the Enterprise Rx Refill and Tracking service so that all data relating to Prescriptions and Tracking information is consistent for Veteran Facing Applications.

# Identification of Interfacing Systems/Sub-systems

The following architectural diagram is provided as a reference so that the proceeding subsections can be easily interpreted. This document will only focus on the VAMF Rx Refill Service swim lane of the diagram. The other swim lanes are provided to help the reader understand how the service sits within the enterprise. The diagram **below** also provides background into how session management is handled with the Enterprise Rx Refill and Tracking service.  
   
**Figure 1: VAMF Rx Refill** **Service Flow**

## Enterprise Session

### Interface Description

This RESTful interface provides an endpoint within the VAMF for initiating a session with the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The enterprise token that is returned is stored within the VAMF client for subsequent calls to the Enterprise Rx Refill and Tracking Service. Each subsequent call to a VAMF endpoint for Rx Refill services must provide the valid enterprise token.  
   
**Figure 2: VAMF Session Sequence Flow**

### Specification for Information to be Exchanged

#### Request

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |  |  |  |
| Content-type |  |  | Required |  |  |  | application/json |  |  |
| Accept |  |  | Required |  |  |  | application/json |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |  |  |  |
| assigning-authority |  |  | Required |  |  |  | Logged in user's assigning authority |  |  |
| patient-id |  |  | Required |  |  |  | Logged in user's patient id |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |  |  |  |
| None |  |  |  |  |  |  |  |  |  |

**Response**

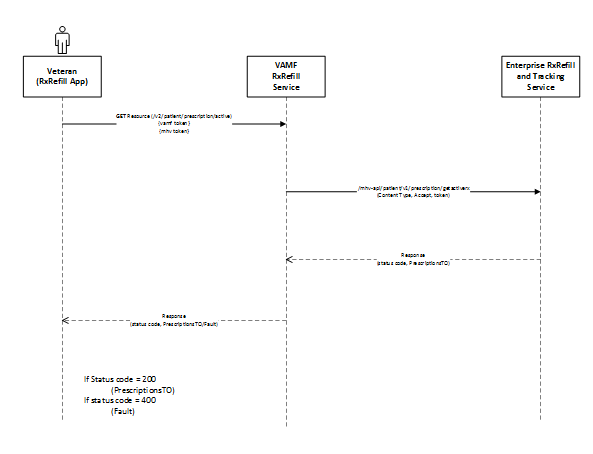
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |
| None |  |  |  |  |
|  |  |  |  |  |
| **Body** |  |  |  |  |
| EnterpriseSessionMgmtTO | Required |  |  | (See A.9 – EnterpriseSessionMgmtTO) |
| Fault | On error |  |  | (See A.6 – Fault) |
|  |  |  |  |  |
| **Codes** |  |  |  |  |
|  |  |  |  |  |
| 200 |  |  |  | **Successful creation of a token and expiration timestamp** |
| 400 |  |  |  | Fault codes and messages:  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  132 - Missing application token  135 - User is not eligible because they have not accepted terms and conditions or opted-in  901 - Authentication Service Error |

### Timing and Sequencing Constraints

This interface is called from a VAMF client that wishes to make subsequent calls to any VAMF Rx Refill Services that act as adapters to the Enterprise Rx Refill and Tracking Service. This interface is only called if an enterprise session token either does not exist or has expired.

## Active Prescriptions (Rx)

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving active prescriptions from the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Services are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.  
   
**Figure 3: VAMF Rx Refill Active Prescriptions Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/active** | **GET** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 1: Active Prescriptions - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

#### Response

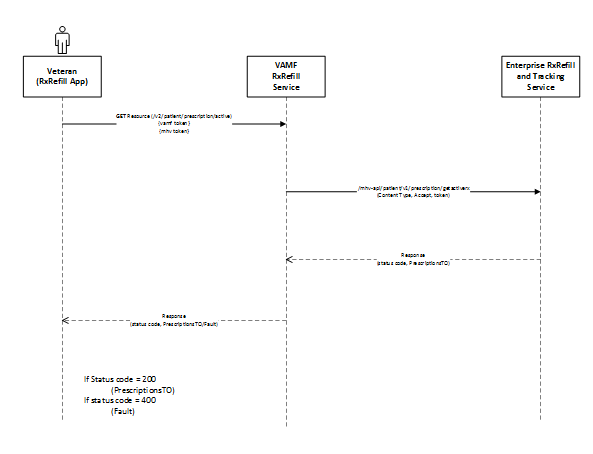
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| PrescriptionsTO  PrescriptionTO | Required  Required |  | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO) |
| Fault | On error |  | (See A.6 – Fault) |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Prescriptions** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  135 – Rx Agreement Not Accepted Error  117 – Data Integrity Error  99 – Unknown Application Error |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Refillable Prescriptions (Rx)

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving refillable prescriptions from the Enterprise Rx Refill and Tracking Service currently being provided by the My HealtheVet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Services are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.  
   
**Figure 4: VAMF Rx Refill Refillable Prescriptions Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/refillable** | **GET** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 2: Refillable Prescriptions - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

#### Response

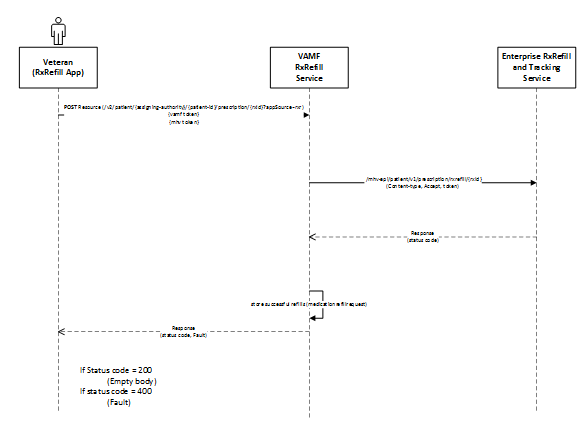
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| PrescriptionsTO  PrescriptionTO | Required  Required |  | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO) |
| Fault | On error |  | (See A.6 – Fault) |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Prescriptions** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  135 – Rx Agreement Not Accepted Error  117 – Data Integrity Error  99 – Unknown Application Error |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Refill Prescription (Rx)

### Interface Description

This RESTful interface provides an endpoint within the VAMF for refilling a prescription from the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Services are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.   
   
**Figure 4:** **VAMF Rx Refill Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/{assigning-authority}/{patient-id}/prescription/{rxId}{?appSource=rxr}** | **POST** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 3: Refill Prescription - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| rxId |  | Required |  |  |  | Prescription Id to be refilled |
| appSource |  | Required |  |  |  | Application Source making this request |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

**Response**

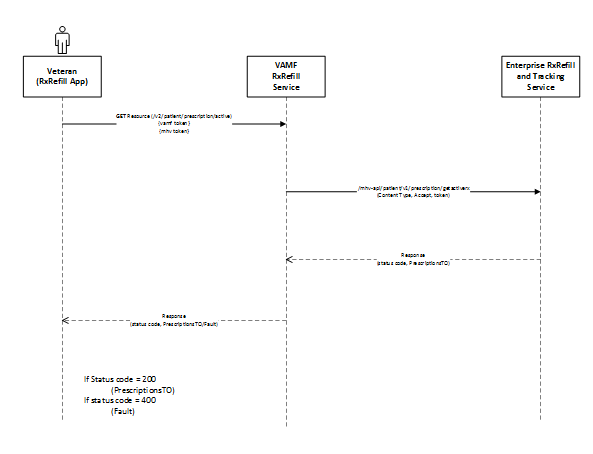
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| Fault | On error |  | (See A.6 – Fault) |
|  |  |  |  |
| **Codes** |  |  |  |
| 200 |  |  | **Successful refill of prescription** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  135 – Rx Agreement Not Accepted Error  136 – The User is not the owner of the prescription  137 – when rxId parameter is empty  138 – Prescription Not Found  117 – Data Integrity Error  99 – Unknown Application Error  139 –Prescription is not refillable  140 – Prescription Refill was unsuccessful. Please try again later |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Historical Prescriptions (Rx)

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving historic prescriptions from the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Service endpoints are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.  
   
**Figure 6: VAMF Rx Refill Historical Prescriptions Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/historic** | **GET** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 4: Historical Prescriptions - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

**Response**

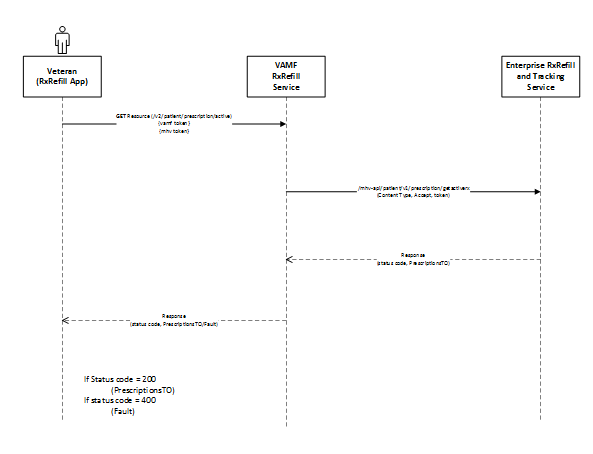
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| PrescriptionsTO  PrescriptionTO | Required  Required |  | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO) |
| Fault | On error |  | (See A.6 – Fault) |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Historical Prescriptions** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  135 – Rx Agreement Not Accepted Error  117 – Data Integrity Error  99 – Unknown Application Error |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Prescription (Rx) Tracking

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving a list of prescriptions that can be tracked from the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Service endpoints are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users. This endpoint calls the Enterprise RxRefill and Tracking Service gethistoryrx endpoint and filters the response to only include data where isTrackable = true and refillDate <= 45days.  
   
**Figure 7: VAMF Rx Refill Trackable Prescriptions Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/tracking** | **GET** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 5: Historical Prescriptions - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

**Response**

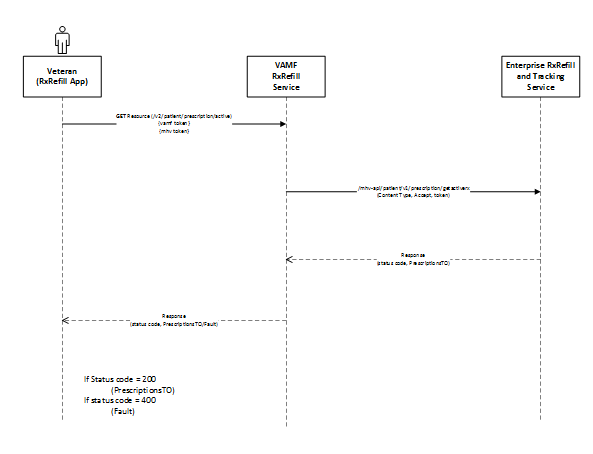
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| PrescriptionsTO  PrescriptionTO | Required  Required |  | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO) |
| Fault | On error |  | (See A.6 – Fault) |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Trackable Prescriptions** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  135 – Rx Agreement Not Accepted Error  117 – Data Integrity Error  99 – Unknown Application Error |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Prescription (Rx) Tracking Detail

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving prescription tracking detail from the Enterprise Rx Refill and Tracking Service currently being provided by the My Health**e**Vet Product Development team. The endpoint provides an adapter to the Enterprise service. The endpoint expects an enterprise token from the client in order to make a successful call to the Enterprise Rx Refill and Tracking Service. All VAMF Rx Refill Service endpoints are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.  
   
**Figure 7: VAMF Rx Refill** **Prescription Tracking Detail Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/tracking/{rxId}** | **GET** | **application/json** | **Enterprise Rx Refill and Tracking Service** |

**Table 6: Prescription Tracking Detail- Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| Token |  | Required |  |  |  | Enterprise Session Token |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| rxId |  | Required |  |  |  | Prescription Id to be used to return tracking information |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

**Response**

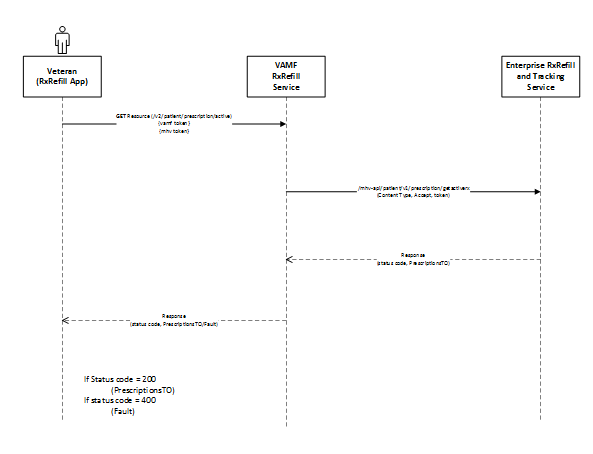
|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| TrackingInfoDetailsTO  TrackingInfoTO  OtherPrescriptionsIncluded Fault | Required  Required  RequiredOn Error |  | (See A.3. – TrackingInfoDetailsTO)  (See A.4. – TrackingInfoTO)  (See A.5. – PrescriptionLiteTO)  (See A.6. – Fault) |
|  |  |  |  |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Tracking Information** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  136 – The User is not the owner of the prescription  138 – Prescription Not Found  99 – Unknown Application Error |

### Timing and Sequencing Constraints

An enterprise session token must exist within the VAMF for the client. If a token does not exist or has expired the business logic within the Rx Refill client will make a call to initiate a new session and store both the enterprise token and expiration timestamp within the client session. See Enterprise Session.

## Medication Refill Request

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving successful Medication Refill requests from within the VAMF. This endpoint will provide metrics for the number of successful requests returned and metadata relating to criteria sent to the service via HTTP Headers to help refine the data. All VAMF Rx Refill Service endpoints are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.   
   
**Figure 9: VAMF Rx Refill Medication Refill Request Sequence Flow**

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| **/v2/patient/prescription/refillrequests** | **GET** | **application/json** | **VAMF Medication Refill Request Datastore** |

**Table 7: Medication Refill Request Tracking - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
| patientId |  | Optional |  |  |  | String, reflecting the patientId that the data should be filtered by. |
| assigningAuthority |  | Optional |  |  |  | String, reflecting the assigningAuthority that the data should be filtered by. |
| startDate |  | Optional |  |  |  | String in the form of a RFC1123 Date, reflecting the startDate that the data should be filtered by. |
| endDate |  | Optional |  |  |  | String in the form of a RFC1123 Date, reflecting the endDate that the data should be filtered by. |
| count |  | Optional |  |  |  | Boolean, reflecting if the data being returned should be counted to return a total of records based on the filtering criteria. |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

#### Response

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| MedicationRefillRequest | Optional |  | (See A.7. – MedicationRefillRequest) |
| MedicationRefills | Optional |  | (See A.8. – MedicationRefills) |
| Count | Optional |  | Integer representing the count of the number of successful refill requests completed within the VAMF application given any filtering criteria (patientId,startDate, or endDate) |
| Fault | On Error |  | (See A.6. – Fault) |
|  |  |  |  |
| **Codes** |  |  |  |
| 200 |  |  | **Successful return of a count, MedicationRefills, or MedicationRefillRequest** |
| 400 |  |  | Fault codes and messages:  102 - Application authorization failed  108 - Missing session token  109 - Invalid session token  110 - Expired session token  111 - Invalid user permissions   901 – Authentication Service Error  136 – The User is not the owner of the prescription  138 – Prescription Not Found  99 – Unknown Application Error |

### Timing and Sequencing Constraints

The endpoint is protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users. A token must be present in order to make calls to this endpoint.

## Rx Refill Directory Resources

### Interface Description

This RESTful interface provides an endpoint within the VAMF for retrieving a list of available endpoints within the Rx Refill group of web service resources. A list of Atom-standard links will be returned. All VAMF Rx Refill Resource Services are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users.

### Specification for Information to be Exchanged

|  |  |  |  |
| --- | --- | --- | --- |
| **URI** | **HTTP Method** | **Produces** | **Source of Data** |
| /v2/public/resource-directory | GET | application/json | VAMF Rx Refill web service |

**Table 8: Rx Refill** **Directory Resources - Specification for Information to be Exchanged**

#### Request

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Header** |  |  |  |  |  |  |
| Content-type |  | Required |  |  |  | application/json |
| Accept |  | Required |  |  |  | application/json |
| Authorization |  | Required |  |  |  | Value is Bearer <space> "VAMF oAuth Token" (Key:Authorization Value:Bearer "token") |
|  |  |  |  |  |  |  |
| **Parameters** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Body** |  |  |  |  |  |  |
| None |  |  |  |  |  |  |

#### Response

|  |  |  |  |
| --- | --- | --- | --- |
| **Header** |  |  |  |
| None |  |  |  |
|  |  |  |  |
| **Body** |  |  |  |
| Links | Required |  | (See A.11 – Links) |
|  |  |  |  |
| **Codes** |  |  |  |
| 200 |  |  | **Successful retrieval of Links** |

### Timing and Sequencing Constraints

All VAMF Rx Refill Resource Services are protected by VAMF security in the form of an oAuth token so that it can only be called by VAMF authentication users. A token must be present in order to make calls to this endpoint.

# Capacity and Performance Requirements

Since this service is an adapter that integrates endpoints being provided by the Enterprise Rx Refill and Tracking Service it was deemed that Capacity and Performance Requirements would follow those provided for within the Enterprise Rx Refill and Tracking Service Interface Control Document.

# Requirements for Communication Protocol Standards Compliance

Clients will exchange information with the VAMF Rx Refill Service via REST. All endpoints will be able to transmit/receive JSON objects. Error recovery and guaranteed delivery are not part of the protocol. Any unexpected errors must be communicated using REST/HTTP Error codes and are defined within the Response Segments for each endpoint. 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. The following communication standards will be used: REST, JSON, WADL, SSL 3.0, and TLS 1.1.

1. **Appendix A -** **Data Elements**
   1. **PrescriptionsTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| prescriptionList | List<PrescriptionTO> |
| failedStationList | String |
| lastUpdatedTime | RFC1123 Date |

* 1. **PrescriptionTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| refillStatus | String |
| refillSubmitDate | RFC1123 Date |
| refillDate | RFC1123 Date |
| refillRemaining | Integer |
| facilityName | String |
| isRefillable | Boolean |
| isTrackable | Boolean |
| prescriptionId | Long |
| orderedDate | RFC1123 Date |
| Quantity | Integer |
| expirationDate | RFC1123 Date |
| prescriptionNumber | String |
| prescriptionName | String |
| dispensedDate | RFC1123 Date |
| stationNumber | String |

* 1. **Notes:**  
     refillStatus:
* active, deleted, discontinued, discontinuedByProvider, discontinuedEdit, expired, hold, nonVerified, providerHold, refillinprocess, submitted, suspended, unknown

prescriptionId:

* MHV RX Id

prescriptionNumber:

* VistA RX Number

* 1. **TrackingInfoDetailsTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| prescriptionName | String |
| prescriptionNumber | String |
| facilityName | String |
| rxInfoPhoneNumber | String |
| ndcNumber | String |
| lastUpdatedtime | RFC1123 Date |
| trackingInfo | List<TrackingInfoTO> |

* 1. **Notes:**  
     refillStatus:
* VistA RX Number
  1. **TrackingInfoTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| shippedDate | RFC1123 Date |
| deliveryService | String |
| trackingNumber | String |
| OtherPrescriptionsIncluded | List<PrescriptionLiteTO> |

* 1. **PrescriptionLiteTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| prescriptionName | String |
| prescriptionNumber | String |
| ndcNumber | String |
| stationNumber | String |

* 1. **Notes:**  
     prescriptionNumber:
* VistA RX Number
  1. **Fault**

|  |  |
| --- | --- |
| **Field** | **Type** |
| developerMessage | String |
| errorCode | Integer |
| message | String |

* 1. **MedicationRefillRequest**

|  |  |
| --- | --- |
| **Field** | **Type** |
| patientId | String |
| assigningAuthority | String |
| prescriptionId† | String |
| requestDate | RFC1123 Date |
| appSource | String |
| docCreatedDate | RFC1123 Date |
| docUpdatedDate | RFC1123 Date |

* 1. †prescriptionId from which the prescription was submitted to be refilled using the Enterprise RxRefill and Tracking API.

1. 1. **MedicationRefills**

|  |  |
| --- | --- |
| **Field** | **Type** |
| medicationRefills | List<MedicationRefillRequest> |

* 1. **EnterpriseSessionMgmtTO**

|  |  |
| --- | --- |
| **Field** | **Type** |
| token | String |
| expiresDate | RFC1123 Date |

* 1. **Link**

|  |  |
| --- | --- |
| **Field** | **Type** |
| rel | String |
| href | String |

* 1. **Links**

|  |  |
| --- | --- |
| **Field** | **Type** |
| Links | List<Link> |