# Rx Refill (RXR) SDD Addendum

# ****Mobile Application System Design Document (SDD) Addendum****

The System Design Document (SDD) is a dual-use document that provides the conceptual design as well as the as-built design. This document will be updated as the product is built, to reflect the as-built product. Per the Project Management Accountability System (PMAS) Guide, the SDD with conceptual design is required prior to the Milestone 1 Review. The as-built for each delivery must be incorporated prior to the Milestone 2 Review.

**Mobile Application Information**

Project Increment / Release Designation: RxRefill v2

Product Version:  2.0.0

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Veteran** | **Care Giver** | **Provider** | **Public** |
| Intended Audience for Mobile Application | X |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Question** | **Yes** | **No** | **If yes, what information / data** | **If yes, then identify any consumer or source system(s) for the data** |
| Does the user enter information or data into the mobile application? | X |  | Authentication Information | Auth Services via DSLogin. |
| Does Mobile Application store information or data entered by the User? If yes, where is it stored? | X |  | Prescription Refill information | The application stores successful medication refill requests in the VAMF so that it can be used for metric on number of sucessful RxRefill requests submitted using the VAMF Rx Refill Application. |
| Does Mobile Application transmit/push data entered outside of the VAMF to VA? | X |  | Medication Refill request | Enterprise Rx Refill and Tracking Service. |
| Does Mobile Application pull data from a VA Database (external to VAMF)? | X |  | Medications, refill tracking information, medication images and metadata | Enterprise Rx Refill and Tracking Service, CDW. |
| Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database? | X |  | oAuth Token id | Secure Session Storage within browser (token). |

**This application can be classified as one of the following:**

|  |  |
| --- | --- |
| **Mobile Application Classification (Only one box may be checked)** | **Mark with X** |
| 1 – Very Low: Mobile Application does not use VA Resource |  |
| 2 – Low: read only access to VA Resource(s) (No PII / PHI) |  |
| 3 – Medium: write access to VA Resource(s) |  |
| 4 – High: read and/or Write access of sensitive data to VA Resource(s) (Includes PII/PHI/other sensitive) | X |

**Application Design**

|  |
| --- |
| **Deployment Diagram**  **C:\08491fa4432d5febdf733c031c1b52fa**  **Application Architecture**  C:\7dc3a7a5dc1afccd2ca10723aa1a53b5    **Interfaces**  C:\df587c4fd77dab698b5b02e540352813  C:\c7d34df07c85de51c2c49cca31835e13 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Device's OS** | **Native** | **Hybrid** | **Web-Only** | **OS version supported** | **Targeted devices (iPhone, iPad, Samsung model...)** | **Estimated Storage Required for Device** |
| iOS |  |  | X | 7+ |  |  |
| Android |  |  | X | 4+ |  |  |
| Windows |  |  | X | IE11 (Windows 7+) |  |  |

|  |  |  |
| --- | --- | --- |
| **Technologies,** **Libraries, and Tools Used in the App** | **Version** | **On the TRM? (If not, provide a link to the waiver)** |
| HTML5 | 5 | Yes |
| Backbone | 1.2.3 | Yes |
| Bootstrap | 3.3 | Yes |
| Handlebars | 4.0.0 | Yes |
| Underscore | 1.8.3 | Yes |
| jQuery | 2.2 | Yes |
| Bower | 1.7.9 | Yes |
| Jasmine | 2.4 | Yes |
| Jasmine-sinon | 0.4.0 | Yes (request number: 20532) |
| Jasmine-jquery | 2.1.0 | Yes (request number: 20531) |
| Marionette | 2.4.4 | Yes |
| Grunt | 0.4.5 | Yes |
| SASS | 3.4.12 | Yes |
| Compass | 1.0.3 | Yes |
| Java JDK | 1.7.x | Yes |
| WebLogic | 12c (12.1.3) | Yes |
| Spring Framework | 4.1.x | Yes |
| Spring Security | 3.2.5 | Yes |
| jTDS JDBC Driver | 1.3.1 | Waiver is being requested for all VAMF by [Lynne Case](file:///C:\display\~casel) |
| Hibernate | 4.3.8.Final | Yes |
| Spring Data MongoDb | 1.7.2.RELEASE | Yes |

**Data Architecture**

Add a table like the below for listing NoSQL data collections stored. A complete Data Dictionary can be found here:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ref #** | **NoSQL Collection** | **Description of data collection** | **Source of data** | **Structure** |
| 1 | RxRefill.medicationrefillrequests | This collection holds data relating to successfully refilled prescriptions carried out through the VAMF and can be used to provide metrics for submissions through the VAMF. | MVI, generated | \_id: String patientId: String medicationId: String requestDate: Datetime (ISO-8601)  appSource: String docCreatedDate: Datetime (ISO-8601)  docModifiedDate: Datetime (ISO-8601) |
| 3 | N/A | This collection provides definitions to standardize VA Mobile Framework (VAMF) common elements (see definitions section of the JSON schema attached), such as: help page content, about page content, application name, application abbreviation, application version, and the last date content. The collection for this release is stored in a file embedded within the app. The structure of the content will be validated against the json-schema in the structure column. | vamf-commons.json | { "$schema": "", "title": "VAMF Common Elements", "description": "Common elements needed for MAE/VAMF applications", "definitions": { "browser":{ "type": "object", "description": "describes a web browser", "properties":{ "browser-name":{ "description": "The name of the browser", "type": "string" }, "browser-version":{ "description": "The minimum version of the browser", "type": "string" } }, "required":["browser-name", "browser-version"] }, "link":{ "type": "object", "description": "links to a content within the application", "properties":{ "link-title":{ "description": "the name displayed on the link", "type": "string" }, "url":{ "description": "the url to the provided link", "type": "string" }, "alt-text":{ "description":"The 508 text (alt) to display on the link", "type":"string" } }, "required":["link-title", "url", "alt-text"] }, "help-desk-contact":{ "type": "object", "description": "this object provide structure for help desk contact info", "properties":{ "contact-type":{ "description": "the type of help contact", "enum":["email","phone"] }, "contact-phone":{ "description": "contact phone number", "type": "string", "format":"phone" }, "contact-email":{ "description": "contact email", "type": "string", "format":"email" } }, "required":["contact-type", "contact-phone", "contact-email"] }, "about-tab": { "type": "object", "description": "Required content to be displayed on an application's about tab - NFR:EWNFR-695", "properties": { "application-name": { "description": "The name of the application", "type": "string" }, "version-number": { "description": "The version of the current release of the application", "type": "string" }, "developed-by": { "description": "The developing organization/entity of the application", "type": "string" }, "national-release-date": { "description": "The date the application was nationally released", "type": "string" }, "application-description": { "description": "A description of the application", "type": "string" }, "additional-info":{ "description":"link to a page(s) with more information", "type": "array", "minItems": 0, "items":{"$ref": "#/definitions/link"} } }, "required":["application-name", "version-number", "developed-by", "national-release-date","application-description"] }, "help-tab": { "type": "object", "description": "Required content to be displayed on an application's help tab - NFR:EWNFR-708", "properties": { "browsers-supported": { "description": "The list of browsers supported", "type": "array", "minItems": 1, "items": { "$ref": "#/definitions/browser" } }, "user-manual": { "description": "A List of links to one or more user manuals", "type": "array", "minItems": 1, "items": { "$ref": "#/definitions/link" } }, "help-desk": { "description": "A List of one or more help desk contacts", "type": "array", "minItems": 1, "items": { "$ref": "#/definitions/help-desk-contact" } }, "general-feedback": { "description": "General feedback link back to the VA (can be url or email)", "$ref": "#/definitions/link" } }, "required":["browsers-supported","user-manual", "help-desk", "general-feedback"] } }, "type": "object", "properties": { "app-name": { "description": "The full name of the application", "type": "string" }, "app-abbreviation": { "description": "The abbreviation of the application", "type": "string" }, "app-version": { "description": "The version of the released application", "type": "string" }, "last-update-date": { "description": "The date reflecting the last time content was modified or updated for the app", "type": "string" }, "help-page-content":{ "$ref": "#/definitions/help-tab" }, "about-page-content":{ "$ref": "#/definitions/about-tab" },"date-created": { "description": "Date the record was created", "type": "string", "default": "now" }, "creator": { "description": "The creator of the content", "type": "string", "default": "RXR Admin" }, "date-modified": { "description": "Date the record was modified", "type": "string" }, "modifier": { "description": "The modifier of the content", "type": "string" } }, "required": ["app-name", "app-abbreviation", "app-version", "last-update-date", "help-page-content", "about-page-content"] } |

Add tables like this for Relational tables: (**NA**)

| **Column Name** | **Data Type** | **Nullable** | **Description** | **PK** | **FK** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

Provide some volume / sizing information for each collection/table:(**NA**)

|  |  |  |  |
| --- | --- | --- | --- |
| **Table or Collection** | **Number of Rows / Entries** | **Estimated Size per Entry** | **Total Disk (minus overhead for indexes, etc)** |
|  |  |  |  |

### Laws / regulations that direct the implementation of the app?

N/A

### Expected concurrent and maximum size of the user base?

|  |  |  |
| --- | --- | --- |
| **User Category** | **Total Number of Users** | **Concurrent Users** |
| **Veterans** | **limited rollout ~ 200** | **10** |

## Interface Design

### Existing VAMF Interfaces Used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Interface Name** | **Version** | **Endpoint** | **Data Used by Mobile App** | **Source of Data** | **Data Retrieved - provide specific data elements used by this app** |
| Authorization Services | 4.4.0 | /ssoeproxy/veteran/authorize | Authentication Response used by Login Mechanism | DSLogon | First name, last name, EDIPI |
| Authorization Services | 4.4.0 | /rest/lastResourceAccessedTime | lastaccesedTime, loginTime, timeToExpireInSeconds | VAMF Authorization DB | User resource access data |
| Health Adapter | 3.4.0 | /rest/public/user-session | MHP User | VAMF Token Store | First Name, Last Name, DOB, userIdentifier |
| Health Adapter | 3.4.0 | rest/mhpuser/right-of-access | Right of Access object | VAMF HA DB | ROA object (userId,object-type,rightOfAccessAccepted,rightOfAccessDate) |
| Health Adapter | 3.4.0 | /roa/index.html?url={redirectURI} | Right of Access Acceptance web page | VAMF HA DB | None, used as a page to accept Right of Access and populate ROA in HA DB |
| Authorization Services | 4.4.0 | /ssoeproxy/logout | Cleans up session and logs user out in development | VAMF Authorization DB | Used for logout and cleanup of token store |
| authservices-oauth-lib | 1.0.3 | **/oauth/token{?code=}**  and **/oauth/info** As documented at (note that these Endpoints are added to the application namespace by a VAMF shared library added as a dependency to the application- therefore they are still being classified as a VAMF endpoint) | As documented at D | Application properties file for oauth info and VAMF Authorization DB for token | Used for obtaining the oauth token and information for obtaining the token such as client\_id and redirect\_url |

### New/Updated VAMF Interfaces Added

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Interface Name (incl. version #)** | **Version** | **Endpoint** | **HTTP Method** | **Data Used by Mobile App** | **Source of Data** | **Included in Program-Level SDD?** |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/prescription/active | GET | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO)  (See A.6. –  Fault) | Enterprise Rx Refill and Tracking Service | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/{assigning-authority}/{patient-id}/prescription/{rxId}?appSource={appsource} | POST | (See A.6. –  Fault) | Enterprise Rx Refill and Tracking Service | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/prescription/historic | GET | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO)  (See A.6. –  Fault) | Enterprise Rx Refill and Tracking Service | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/prescription/tracking | GET | (See A.1 – PrescriptionsTO)  (See A.2 – PrescriptionTO)  (See A.6. –  Fault) | Enterprise Rx Refill and Tracking Service | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/prescription/tracking/{rxId} | GET | (See A.3. – TrackingInfoDetailsTO)  (See A.4. – TrackingInfoTO)  (See A.5. – PrescriptionLiteTO)  (See A.6. –  Fault) | Enterprise Rx Refill and Tracking Service | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/prescription/refillRequests | GET | (See A.7. – MedicationRefillRequest)  (See A.8. – MedicationRefills)  (See A.6. –  Fault) | VAMF Mongo rxrefill.medicationrefillrequests | No |
| RxRefill Service | 2.0 | /RxRefillServices/v2/patient/{assigning-authority}/{patient-id}/session | GET | (See A.9 –  EnterpriseSessionMgmtTO) | Enterprise Rx Refill and Tracking Service | No |
| Medication Image Library Service | 1.0 | /mil-resources/v1/{ndc} | GET | (See A.1 – AcceptedImageMetadata)  (See A.4 – Fault) | VAMF CDW MIL Schema (BISL\_DrugInfo) | No |
| Medication Image Library Service | 1.0 | /mil-resources/v1/image/{imageId} | GET | JPEG  (See A.4 – Fault) | VAMF CDW MIL Schema (BISL\_DrugInfo) | No |
| Medication Image Library Service | 1.0 | /mil-resources/v1/images/{ndc} | GET | (See A.2 – AcceptedImages)  (See A.4 – Fault) | VAMF CDW MIL Schema (BISL\_DrugInfo) | No |
| Medication Image Library Service | 1.0 | /mil-resources/v1/image/{imageId}/properties | GET | (See A.3 – AcceptedImage)  (See A.4 – Fault) | VAMF CDW MIL Schema (BISL\_DrugInfo) | No |

**The following ICDs are provided to provide technical detail relating to the RxRefill Service and Medication Image Library Service:**

**Dependencies/SLA**

|  |  |  |
| --- | --- | --- |
| **Project Dependency** | **Point of Contact Information** | **Describe Dependency** |
|  |  |  |
|  |  |  |

**Traceability**

Please see JIRA project for data below:

[**https://DNS/browse/RXR-503**](https://DNS/browse/RXR-503)

|  |  |  |  |
| --- | --- | --- | --- |
| **EPIC** | **FEATURE** | **USER STORY** | **DESIGN COMPONENT** |
|  |  |  |  |

**Developer & PM Contact Information**

|  |  |  |
| --- | --- | --- |
| **Developer Name/Point of Contact (POC)** | **VA E-Mail Address** | **Phone Number** |
| Pratap Chilukuri | PII | PII |
| **Developer Organization/Company** | **Contract Start Date** | **Contract End Date** |
| HP Enterprise Services | September 24, 2014 | July 10, 2017 |
| **Web and Mobile Solutions PM or POC** | **VA E-Mail Address** | **Phone Number** |
| Connie Murphy | PII | PII |
| **VA Product Development PM or POC** | **VA E-Mail Address** | **Phone Number** |
| Mark Ennis | PII | PII |