# RX Refill\_Tech\_Guide

**Department of Veterans Affairs**   
**Mobile Applications (Apps) Phase Two (MAP2)**   
**Rx Refill - Prescription Refill**  
**Technical Guide**   
**April 2015**  
**Version 6.0**

# Introduction

Department of Veterans Affairs (VA), Patient Care Services (PCS), Pharmacy Benefits Management (PBM) is requesting enhancements to the existing Rx Refill (RxR) mobile application. The current Hypertext Mark-up Language five (5) (HTML5) version of the Rx Refill application (RxR) is not yet in production due to compliance and 508 issues. The application must be updated to include mandatory compliance requirements and approved functional enhancements prior to deploying to production.

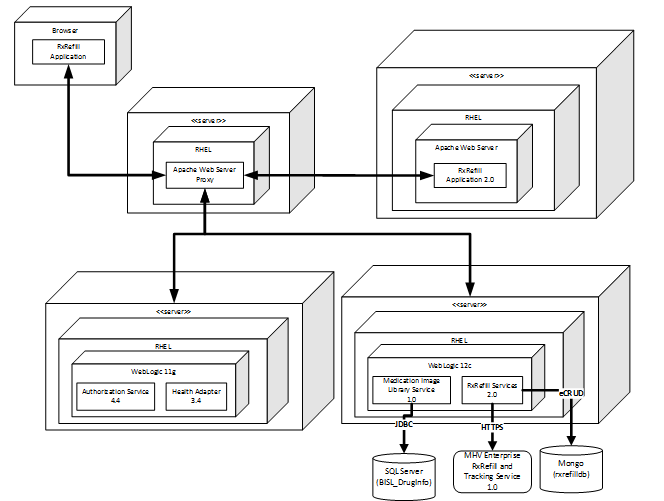
## Purpose

Veterans Health Administration (VHA), Patient Care Services (PCS), Pharmacy Benefits Management (PBM) is requesting modification to the exiting Rx Refill – Prescription Refill (Rx Refill) mobile application.   
The current Hypertext Mark-up Language five (5) (HTML5) version of the Rx Refill app which is not in production due to compliance and 508 issues. The Application must first be updated to meet compliance requirements and then have the agreed upon enhancements updated to include self-service Rx medication tracking.  The VA now sends the majority of outpatient Rx's to Veteran patients via mail.  In order to track the delivery of mailed Rx medications, VA patients must call their local VAMC directly and wait for a representative to look up their order and connect them to the carrier responsible for delivering the shipment.  
The current Rx Refill mobile application shall be enhanced to allow Veterans to track Rx medication shipments to include the status of their mailed Rx medication and expected delivery date and time. The Rx Refill mobile app shall be modified to display relevant mail tracking information, with links to send the user or display status information from common delivery services such as the United States Postal Service (USPS), FedEx and United Parcel Service.  The content displayed on the enhanced Rx Refill app shall mirror the information in My Health**e**Vet (MHV), making use of existing MHV services, where appropriate.   
Additionally, the existing Rx Refill application shall be enhanced to include a picture of the medication including the name of the medication.  VA will provide a web service link to the Medication Image Library (MIL) system in the VA Corporate Data Warehouse (CDW).

## Related Material

* [Rx Refill (RXR) Service Interface Control Document (ICD)](https://DNS/pages/viewpage.action?pageId=34016588)
* [Rx Refill (RXR) SDD Addendum](https://DNS/display/RXR/Rx+Refill+%28RXR%29+SDD+Addendum)
* [Medication Image Library (MIL) Service Interface Control Document (ICD)](https://DNS/pages/viewpage.action?pageId=34016671)

# Installation Prerequisites

This application requires an Apache Web Server, WebLogic (J2EE) container, eCrud instance, SQL Server database, and Mongo database as well as common VAMF Shared Services.   
   
**Figure 1: Rx** **Refill Deployment Diagram**  
Note that hardware and software configurations are dependent upon the load and suspected usage of the application and may need to be upgraded to match the environment in which they will run.

## Software

Please see the Technologies, Libraries, and Tools Used in the App contained within the [SDD](https://DNS/display/RXR/Rx+Refill+%28RXR%29+SDD+Addendum).

## Hardware

This section is under construction as the application matures through the sprints. It will be filled in as the functionality becomes available.

# Installation Instructions

## Java

See [Installing Java](https://DNS/display/RXR/5.+Installing+Java+JDK).

## Maven

See [Installing Maven](https://DNS/display/RXR/7.+Installing+Maven).

## Eclipse

See [Installing Eclipse](https://DNS/display/RXR/6.+Installing+Eclipse).

## Installing Git

See [Installing Git](https://DNS/display/RXR/5.+Installing+Git).

## Installing Node

See [Installing Node](https://DNS/display/RXR/6.+Installing+Node).

## Building the HTML5 Application

See [Rx Refill Web Project](https://DNS/display/RXR/8.+RxRefill+Web+Project).

## Building Web Services

See [Resource (Web Services) Project(s)](https://DNS/pages/viewpage.action?pageId=41878264)

# Rollback Procedure

This application follows the standard operating procedures for applications installed in the MAE/VAMF, currently operated by the PAMS support team. Rollback of services (since these are hosted on WebLogic), are typically an 'un deploy' the existing application version within the WebLogic Administrator Console, followed by re-deploy of the previous released version. The HTML5 web application is similar where all contents of the web applications root directory on the Apache Web Server www directory is replaced with files from the previously released version.

# Un-install

Follow any required data retention policies as suggested by VA. To uninstall the Rx Refill Web Application (HTML5) simply remove the folder containing the application from the Apache Web Server www directory. To remove the Rx Refill Service and Medication Image Library Service simply undeploy the WAR file from the WebLogic container. Lastly, remove any reverse proxy routes from the Apache Proxy Server that were pointing to the Rx Refill Application, Rx Refill Service, and Medication Image Library Service.

# Pre-release Testing

The [Rx Refill Master Test Plan](https://DNS/display/RXR/Rx+Refill_MTP) contains details related to Rx Refill test procedures.

# User and Group Account

Veterans leverage existing DSLogin credentials with this application; no further account or group procedures are needed. System (hosting systems and associate eCRUD/Mongo system) account management is performed in accordance with existing MAE/VAMF procedures.

# Release Guidance

This section is under construction as the application matures through the sprints. It will be filled in as the functionality becomes available.

# System Administration

This section is under construction as the application matures through the sprints. It will be filled in as the functionality becomes available.

# System Back-up

This application and supporting services is hosted in VA's MAE/VAMF Dedicated Core environment; ongoing system backups are provided as part of the Terremark hosting facility agreement.

# Application Maintenance Procedures

Application maintenance is governed by the [MAE Change Control Procedures](https://DNS/display/VAMFCCB/MAE+Change+Control+Procedure), which include the processes used for both non-production and production environments.