

# VA Tool Set Web 2.1.x - SDD

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## 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: [VA Tool Set Application](#)

Product Version: [2.1.2](#)

	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		Custom Messages, Request and Direct Scheduling Eligibility Criteria	VAR Utility Services (MongoDB)
Does Mobile Application store information or data entered by the User? If yes, where is it stored?	X		Custom Messages, Request and Direct Scheduling Eligibility Criteria	VAR Utility Services (MongoDB)
Does Mobile Application transmit/push data entered outside of the VAMF to VA?		X		
Does Mobile Application pull data from a VA Database (external to VAMF)?		X		
Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database?		X		

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)	X
4 – High: Read and/or Write access of sensitive data to VA Resource(s) (Includes PII/PHI/other sensitive)	

## VA Tool Set Application

The **VA Tool Set** application currently comprises of one tool called **VAR Utility** for configuring VAR direct booking and appointment request criteria for a Facility. Configuration settings will apply to all subdivisions of the Facility. Future additions to the **VA Tool Set** will be documented as tools are developed and released for use. **VA Tool Set** stores the configured settings in the MongoDB database named **var-utility**. The **VAR** application reads the configured values from MongoDB, and sets the veterans eligibility according to the configurations. Currently **VA Tool Set** provides configuration capability for the following criteria:

1. **Direct Booking Eligibility Criteria:** configures the criteria governing the eligibility of veterans to directly book an appointment to VistA.
2. **Request Eligibility Criteria:** configures the criteria governing the eligibility of veterans to make appointment requests.
3. **Custom Messages:** configures the facility custom texts to be displayed on the VAR application input screen for specific input fields.
4. **Friendly Text:** configures user-friendly facility names to be displayed to the VAR user.

## Application Design

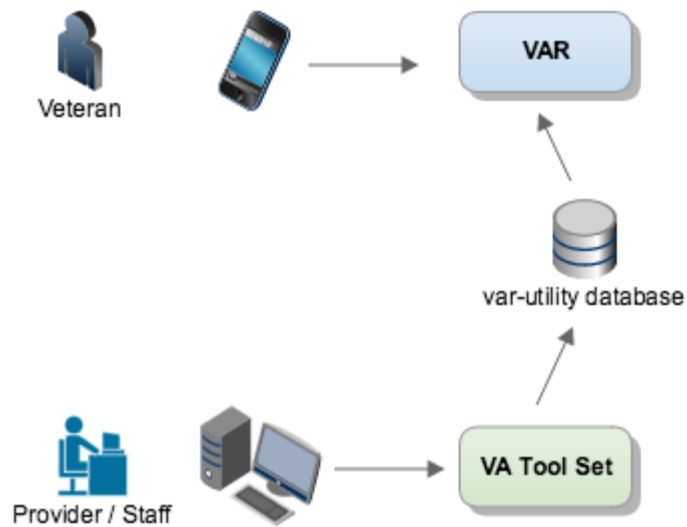
### Design Principles and Patterns

- Single Page Application - Single Page Application design pattern will be leveraged.
- Application Specific Dependencies - External REST service dependencies are managed through application specific resource directory (resource-directory.json) packaged with the application. Each REST service endpoint is defined with a "title" and "href". For convenience, all the dependencies are identified in the VAMF Interfaces section.
- REST Conventions - The application works with data using HTTP verbs. GET is used for retrieving data, POST is used for creating or processing data, PUT is used for updating data and DELETE is used for deleting data.
- Exception Handling using HTTP standards - Exception handling is performed based on HTTP status codes. Bad Request (status code 400) is handled at the Model or Resource level. Internal Server Error (status code 500) is handled globally within the application.
- Leveraging common VAMF Services such as Authorization Services and Metric Services.

## Conceptual Perspective

A Component diagram depicting how the **VA Tool Set** application connects with the **VAR** application is illustrated below.

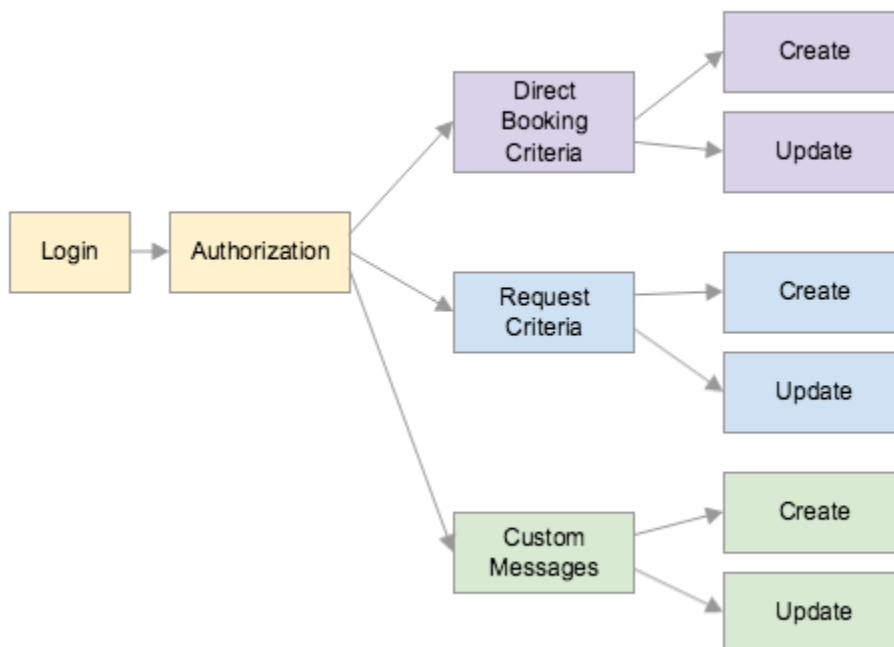
### Component Diagram



## Logical Perspective

### Logical Functional Diagram

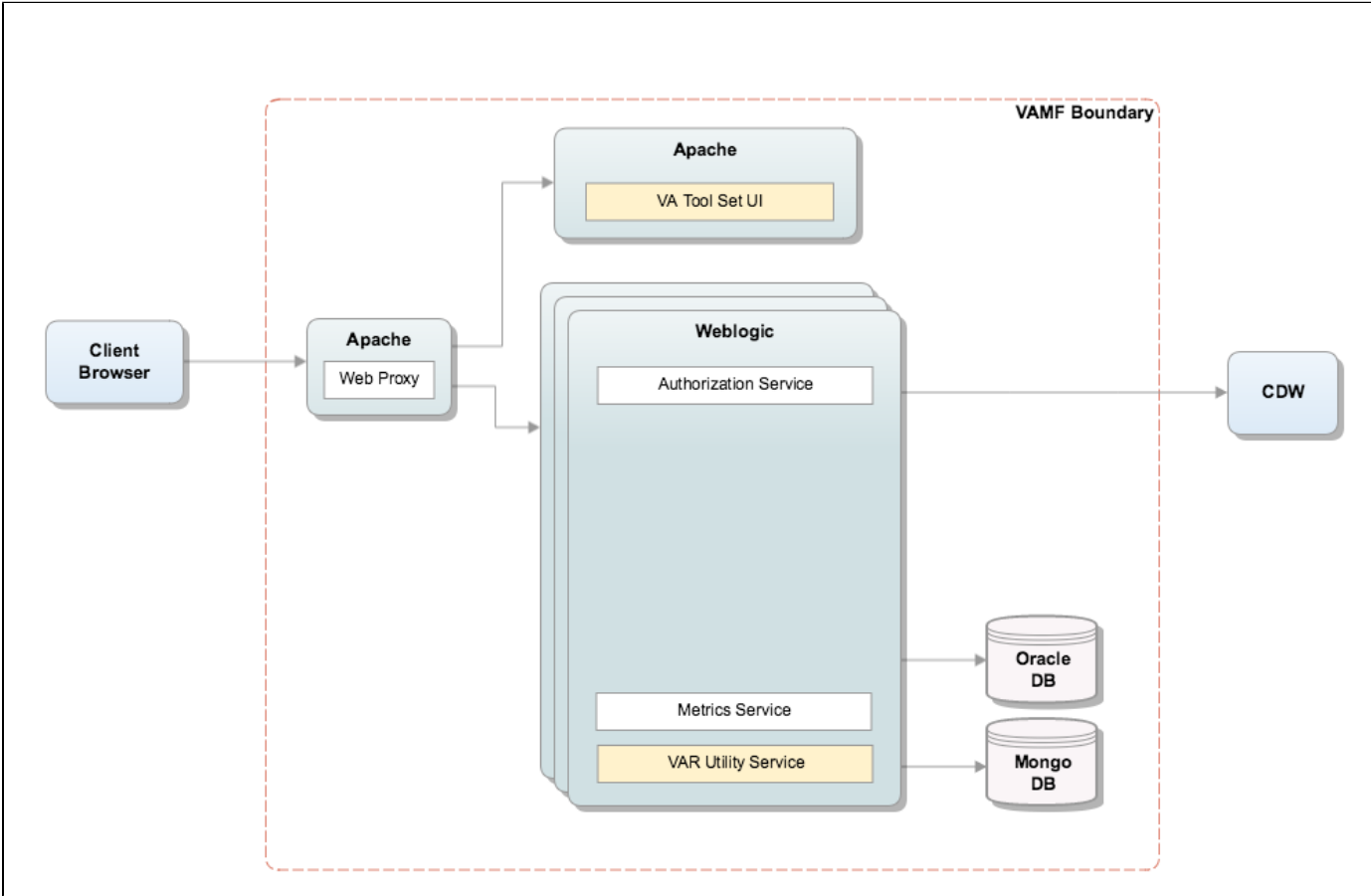
VA Tool Set logical functions are depicted below. The three main functional areas are Direct Booking Eligibility Criteria, Request Eligibility Criteria and Custom Messages. Only authorized staff members are allowed to access the functions. Subsequent actions in each functional area are as illustrated.



## Physical Perspective

Deployment of the **VA Tool Set** application is depicted in the Deployment diagram below. The VA Tool Set web (UI) portion is deployed to Apache. VAR Utility Service is deployed to the Weblogic cluster depicted by the multiple overlapping layers for scalability and load balance. VAR Utility Service is intended for deployment in the Platform Stabilization platform.

Deployment Diagram (Platform Stabilization Environment)



Supported Devices

Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted Devices (iPhone, iPad, Samsung model...)	Estimated Storage Required for Device
iOS			X	IOS 10	iPad	
Windows 8			X	Windows 10	IE 11	

Technology Stack

Technologies, Libraries and Tools Used in the Application	Version	On the TRM? (If not, provide a link to the waiver)
HTML5	5	Yes
CSS	3	Yes
Angular	1.3.5	Yes
AngularUI (ui-router)	0.2.15	Yes

UI-Bootstrap	0.12.1	No (pending decision from VA PM, as issues were found in upgrading to 0.13.0)
jQuery	1.11.3	Yes
Lo-Dash	2.4.2	Yes
Moment	2.10.6	Yes
RequireJS	2.1.14	Yes

## Developer and Program Manager (PM) Contact Information

Developer Name/Point of Contact (POC)	E-Mail Address	Phone Number
Doug Kurucz	<a href="mailto:doug.kurucz@ablevets.com">doug.kurucz@ablevets.com</a>	703-594-8640
Developer Organization/Company	Contract Start Date	Contract End Date
Accenture Federal Services		
Web and Mobile Solutions PM or POC	VA E-Mail Address	Phone Number
VA Product Development PM or POC	VA E-Mail Address	Phone Number