

Antibiogram 2.0 SDD Addendum

Mobile Application Information

Project Increment / Release Designation: <insert – ex MBB National Release, or MoveCoachMobile v2>

Product Version: 2.0

	Veteran	CareGiver	Provider	Public
Intended Audience for Mobile Application			X	

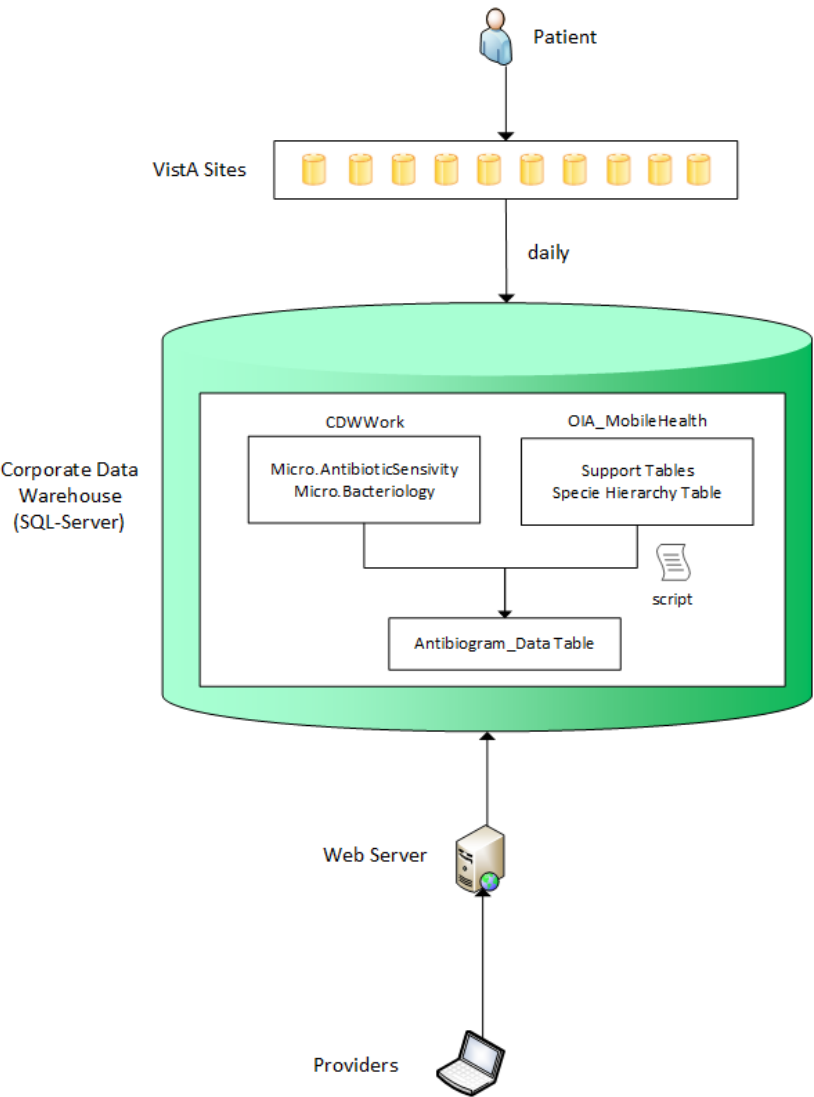
Question	Yes	No	If Yes, what information / data	If yes, then identify any consumer or source system(s) for the data
Does the user enter information or data into the mobile application?	X		User queries for facility selection and clinical data such as gram stain, species, or organism search	The application's backend queries against data from a datamart. The datamart contains tables built from tables within CDW but the application never directly interacts with CDW. The frontend presents data obtained through the backend to the user through the user's web browser.
Does Mobile Application store information or data entered by the User?	X		Facility information (facility name and site code) and EULA acceptance status is stored	The browser stores the facility name and site code inside its localStorage mechanism if the user chooses to set a default facility. An initial EULA acceptance flag is also set within localStorage when the user accepts the EULA for the application.
Does Mobile Application transmit/push data entered to VA?		X	The application runs queries against tables built from CDW tables, but never directly interacts with CDW. The application does not store data remotely within any VA storage / database.	
Does Mobile Application pull data from a VA Database?	X		Antibiogram data composed of several tables within CDW is built on a regular basis and presented to the user.	The application backend consumes the data and forwards it to the frontend, which is then displayed to the user through the user's browser.
Does the Mobile Application store information or data pulled from a VA Database?	X		Facility site information (name and site code) is	The browser's localStorage mechanism is used to store facility site information,

			queried from CDW so the user can quickly access antibiogram data for the same facility upon reusing the app.	which is pulled from CDW through the application's backend resource.
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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)	X
3 – Medium: Write access to VA Resource(s)	
4 – High: Read and/or Write access to VA Sensitive Resource(s)	

Application Design



Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted Devices (iPhone, iPad, Samsung...)	Estimated Storage Required for Device
iOS	X			Most Recent	iPhone, iPad	
Android	X			Most Recent	Samsung Galaxy	
Windows 8			X	Windows 8	PC	

Technology, Libraries, Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
HTML5	5	Yes
CSS3	3	Yes
Backbone	1.1	Yes
jQuery	2.1	Yes
Modernizr	2.7.1	No - <insert waiver URL>
Typeahead.js	0.10.2	No - <insert waiver URL>
Marionette	1.8.7	No - <insert waiver URL>
RequireJS	2.1.10	No - <insert waiver URL>

Antibiogram 2.0 Architecture

Data

Antibiogram Script



CDW Database

SQL



Weblogic App Server

Rest



Apache Web Server



Network

HTTP



Users

Architecture

Ref #	NoSQL Collection	Description of data collection	Source of data	Structure

Table : Organism (Dim)

Column Name	Data Type	Nullable	Description	PK	FK
OrganismSID	Integer	N	Organsim SID	Y	N
Organism	Varchar	Y	Organism Name	N	N
Sta3n	Integer	N	Facility code	N	N
GramStain	Varchar	N	Gram Stain code	N	N
SnomedCode	Varchar	N	Snomed Code	N	N

Table : CollectionSample (Dim)

Column Name	Data Type	Nullable	Description	PK	FK
CollectionSampleSID	Integer	N	Collection Sample SID	Y	N
CollectionSample	Varchar	Y	Collection Sample Description	N	N

Table : Topography (Dim)

Column Name	Data Type	Nullable	Description	PK	FK
TopographySID	Integer	N	Topography SID	Y	N
Topography	Varchar	Y	Topography Description	N	N

Table : AntibioticSensitivity (Micro)

Column Name	Data Type	Nullable	Description	PK	FK
AntibioticSensitivitySID	Integer	N	Antibiotic Sensitivity SID	Y	N
Sta3n	Integer	Y	Facility code	N	N
PatientSID	Integer	N	Patient SID	N	N
SpecimanTakenDateTime	Datetime	N	Speciman Taken Date time	N	N
OrganismSID	Integer	N	Organism SID	N	Y
AntibioticSID	Integer	N	Antibiotic SID	N	N
Antibiotic	Varchar	N	Antibiotic Name	N	N
AntibioticSensitivityInterpretation	Varchar	Y		N	N
OrganismQuantity	Decimal	Y	Organism Quantity	N	N
AntibioticSensitivityValue	Integer	Y	Sentivity value	N	N
BacteriologySID	Integer	N	Bacteriology SID	N	Y

Table : Bacteriology (Micro)

Column Name	Data Type	Nullable	Description	PK	FK
BacteriologySID	Integer	N	Bacteriology SID	Y	N
Sta3n	Integer	N	Facility Code	N	N
PatientSID	Integer	N	Patient SID	N	N
SpecimenTakenDateTme	Datetime	N	Specimen Taken Date Time	N	N
ReportCompletedDateTime	Datetime	Y	Report Completed Date Time	N	N
BacteriologyReportStatus	Varchar	Y	Bacteriology Report Status	N	N

Microbiologyaccession		Y	Microbiology Accession	N	N
TopographySID	Integer	N	Topography SID	N	Y
CollectionSampleSID	Integer	N	Collection Sample SID	N	Y
BacteriologyApprovedReportDate	DateTime	Y	Bacteriology Report Date	N	N

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?

<insert here>

Expected concurrent and maximum size of the user base?

<insert here>

Interface Design

List Existing VAMF (formerly Health Adapter) Interfaces Used (List)

Not applicable. Antibioqram 2.0 does not use existing VAMF or add new VAMF interfaces. It has its own set of web services.

Interface Name (incl version number)	Data Used by Mobile App	Source of Data	Data Retrieved - provide specific data elements used by this app

New/Updated Health Adapter Interfaces Added (List)

Not applicable. Antibioqram 2.0 does not use existing VAMF or add new VAMF interfaces. It has its own set of web services.

Interface Name (incl version #)	Data Used by Mobile App	Source of Data	Included in Program-Level SDD?
			Yes/NO
Add rows as needed			

New/Updated VAMF Interfaces Added		
Interface Name	Data Used by Mobile App/Source of Data	Program Level SDD Status
/AntibiogramResources/rest/public/facility-service/facilities?term=	Antibiogram_data	No
/AntibiogramResources/rest/Public/antibiogram/facility/{facilityCode}/search?name=	Antibiogram_data	No
/AntibiogramResources/rest/Public/antibiogram/facility/{facilityCode}/species/{speciesid}/antibiotic	Antibiogram_data	No
/AntibiogramResources/rest/Public/antibiogram/facility/{facilityCode}/organism/{organism-id}/antibiotic	Antibiogram_data	No
/AntibiogramResources/rest/Public/antibiogram/facility/{facilityCode}/organismgroup/{organismgroup}/antibiotic	Antibiogram_data	No
/AntibiogramResources/rest/Public/antibiogram/facility/{facilityCode}/organismgroup/{organismgroup}/{subgroup}/antibiotic	Antibiogram_data	No

Dependencies/SLA

Project Dependency	Point of Contact Information	Describe Dependency
Dependence on availability and currency of MockCDW data.	[REDACTED]	Limited data exists in MockCDW. Development and testing was dependent upon supplemental data provided by Kevin Todd and Makoto Jones, as well as made up data based on the development team's interpretation of how the data should be represented.
The master table that maps the entered organism to its associated SNOMEDCUI exists in a custom table that lives outside of the CDW. That is something VA doesn't maintain or updated.	[REDACTED]	The support tables that the development team will use for mapping organism to SNOMEDCUI and antibiotic to LOINC will be considered static as of the date provided. If new organism is reflected in the CDW, it will not be included in this version of Antibiogram 2.

Traceability (Requirements)

See RSD or RTM on MAE WIKI.

Developer & PM Contact Information

Developer Name/Point of Contact (POC)	VA E-Mail Address	Phone Number
[REDACTED]	[REDACTED]	[REDACTED]

Developer Organization/Company LongView International Technology Solutions Inc.	Contract Start Date October 2013	Contract End Date March 2015
Web and Mobile Solutions PM or POC [REDACTED]	VA E-Mail Address [REDACTED]	Phone Number [REDACTED]
VA Product Development PM or POC [REDACTED]	VA E-Mail Address [REDACTED]	Phone Number N/A