

# OpenMRS Implementation Survey 2012

This page lists the results of an OpenMRS implementation survey conducted by **Jembi Health Systems** as part of requirements gathering for the Rwanda Health Enterprise Architecture (RHEA) project.  
This survey was conducted in April 2012.

## 1. The AMPATH implementation, Eldoret

Installation name	AMPATH
Location	Eldoret
Contact person	Ada Yeung
Servers	Two servers, Production Server and research server
Production Server use	Data entry, clinical data lookup, data corrections on past encounter/obs/merge duplicate patient records, scheduled tasks, ID generation etc.
Research Server use	Heavy duty queries and reports
Server specs (For each of the servers)	32 GB RAM, Dual 2.4 GHz Quad Core
OS	Ubuntu 9.10 x 86_64 (2.6.31-22 server)
JVM	JVM 1.5.0_22-b04
MySQL	MySQL 5.1.37
Application Server	Apache Tomcat 6.0.20
Backup servers	One each for Production and research servers
Remote servers	Seven remote servers for onsite data entry
Remote server configuration	2.5 GHz CPU with 2046 MB RAM (per each)
Data	
Patients	482,000
Observations	124 million
Encounters	3.6 million
Challenges	Takes over 48 hours to do the obs update during the 1.8 testing setup

## 2. Hospital Albert Schweitzer (Haiti) - Updated 17-Jan-2013

Installation name	Hospital Albert Schweitzer
Location	Haiti (Deschapelles)
Contact person	Rubens Paul (Formerly James Arbaugh)
Server	Dell PowerEdge R510, with dual processors, RAID, redundant power supplies, and redundant networking.
OS	Suse Linux Enterprise Server 11 SP2 - 3.0.31-0.9 Xen
Physical memory	Physical memory: 11892.82 MB Available memory: 513.85 MB Total page file: 2055.14 MB Free page file: 1028.06 MB Memory load: 96
JVM	JVM - 1.6.0_30-b12
MySQL	MySQL Server version: 5.5.22
Application Server	Tomcat 7.0.27
OpenMRS Version	Version: 1.9.2 Build e9813c
Data	
Patients	745,950
Observations	7,096,227

Encounters	1,360,419
Users	167
Concurrent Users	~15
Note	They have fine-tuned OpenMRS performance over the years

### 3. eHealth Systems Chile

<b>Installation name</b>	<b>eHealth Systems, Chile</b>
Location	Chile
Contact person	Joaquin Blaya
Server	Two implementations running on a Quad Core Intel 1.86 GHz virtual machine
Physical memory	2 GB RAM
Application Server	Tomcat 6.0.18
Data	
Patients	149
Observations	4893

### 4. Masaka Regional Referral Hospital, Uganda


<b>Installation name</b>	<b>Masaka Regional Referral Hospital</b>
Location	Uganda
Contact person	Matthew Ssemakadde
Servers	One
Server specs	PowerEdge T610 Tower Server
Processor	Intel Xeon Quad Core X3460 2.8GHz 8MB Cache 2.5GT/s, Turbo, HT
Memory	16GB DDR3 PC3-10600 1333MHz ECC Memory
Hard Drives	4TB (4 x 1TB) 7200 RPM SATA Hard Drives, RAID: PERC S100 On-Board SATA RAID Controller
Power Supply	Dual Power Supply
Integrated Features	Dual Intel GB NIC's, USB, DVD-RW
OS	Windows Server 2008 Enterprise
JVM	jdk-6u20-windows-i586
MySQL	MySQL 5.0
Application Server	apache-tomcat-6.0.29
Data	
Patients	17,286
Observations	5,229,853
Challenges	none

### 5. Partners In Health

Installation name	ZL	IMB	Lesotho	APZU
Location	Haiti	Rwanda	Lesotho	Neno, Malawi
OpenMRS version	1.9	1.9	1.6	1.7
Contact person	Ellen Ball			
Servers	2 (sync)	24 (sync)	1	1

OS	Ubuntu 10.04LTS			
JVM	jdk1.6.0_17			
MySQL	MySQL 5.5			
Application Server	Apache Tomcat 6.0.29			
Backup	All servers are backed up nightly			
Patients	168K	31K	12K	
Observations	400K	1M	2M	
Encounters	432K	36K	300K	
Modules	patient registration sync mds htmlform address hierarchy reporting patient flags id gen name phonetics mdrtb html widgets	patient registration sync mds htmlform rwanda address hierarchy reporting patient flags id gen name phonetics mdrtb html widgets	HTML Form Entry Regimen Pickup BIRT Report Module Log Manager Reporting Compatibility HTML Widgets	

### 6. IRD - Ali Habib

Site	Pakistan
Focus	MDR-TB
Started in	2008
Patients	330 
Modules	mdrtb, HTML form entry, xforms, flowsheet, reporting, reportingcompatibility
Server	Ubuntu 10
Version	OpenMRS 1.6

Site	Tajikistan
Started in	2011
patients	700
Modules	mdrtb, TML FormEntry, xforms, AddressHierarchy, reporting, reportingcompatibility
Server	Ubuntu 10, Dell PowerEdge
Version	OpenMRS 1.6

site	Nepal
Server	Ubuntu 10, Dell PowerEdge
Started in	2012
patients	1285
Modules	mdrtb, HTML FormEntry, xforms, reporting, reportingcompatibility
Version	OpenMRS 1.6

### 7. MigrantHealth:IL - Tobin Greenswig

Location	Tel Aviv, Israel
Purpose	Primary care clinic in Israel for refugees
Patients	>7,521
Started early 2012	
Version: OpenMRS 1.8.3	

server	HP Microserver N40L running Ubuntu 11
Modules	ID Generation, HTML Widgets, Role Based Homepage, HTML Formentry, formerly used HTML Flowsheet, Reporting

#### 8. CHITS (Community Health Information Tracking System) OpenMRS -- National Telehealth Center

Location	Philippines
Contact	University of the Philippines Manila - National Telehealth Center
Purpose	Primary healthcare facilities in the Philippines
Version	OpenMRS 1.8.3
OS	Ubuntu 11.04, Ubuntu 12.04, Ubuntu 12.10
JVM	1.6.0_27, 1.7.0_21
MySQL	MySQL 5.5.31, MySQL 5.5.32
Application Server	Tomcat 6.0.36
Physical Memory	2GB RAM, 4GB RAM (Preferred)
Modules	CHITS Patient Module, HTML Form Entry, FormEntry, XForms, HTML Widgets, Reporting Compatibility, Rest Web Services, Serialization Xstream, Reporting
Interoperability	mCHITS (BlackBerry-based application that synchronizes with local health center server CHITS-OpenMRS instance) RxBox2 (Biomedical monitoring device for patient's BP, HR, O2 sat, fetal heart rate, and uterine contractions; can send values and synchronize with CHITS-OpenMRS) DHIS2 (using the OpenMRS' DHIS2 Reporting Module of Bob)
Patients	approx. 150,000
Encounters	approx. 350,000
Observations	approx. 8,000,000
Sites	Implemented in at least 101 health facilities: Quezon City - 73, Navotas City - 10, RxBox2 Project (Batch1) - 15, rCHITS1 Project - 3; To be deployed in 34 more: RxBox2 Project (1st batch) - 5, rCHITS2 Project - 9 (1 previous site excluded), RxBox2 Project (2nd batch) - 20
Notes	<i>CHITS is used in the health centers, lying-in clinics, social hygiene clinics and animal bite center. The projects rCHITS and RxBox with CHITS component are deployed in different parts of the Philippines, although preferred locations are usually in GIDA (Geographically Isolated and Disadvantaged Areas).</i>