

Mendocino Record Locator Service Prototype

Will Ross

26 July 2005

wross@openhre.org

[d]

Scope

Deliverables

Architecture

Prototype

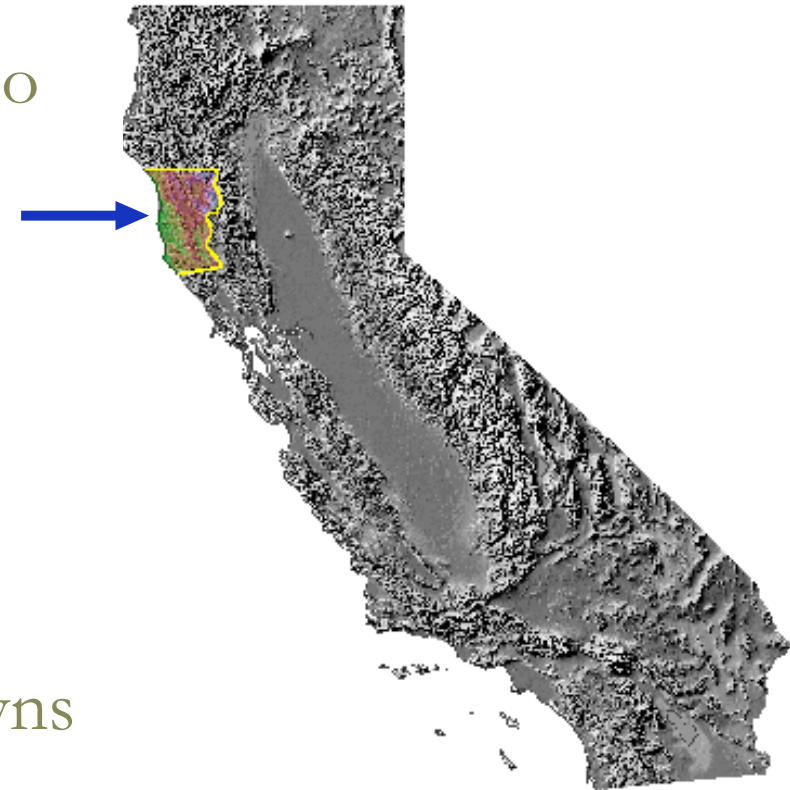
Portal

Scope

- Record Locator Service (RLS) Prototype Test funded by the Markle Foundation through the Tides Center
- Open Source software development by OpenHRE.org
- Health Records Exchange (HRE) Reference Implementation in Mendocino County based on roadmap by Connecting for Health
- Demonstration of HRE business case in a rural environment
- Multiple public & private stakeholders

Mendocino County, California

- 120+ miles north of San Francisco
- 3,500 square miles (> DE + RI)
- Population 85,000 (24 / sq. mi.)
- Largest city 15,000
- 3 hospitals, 165 total beds
- Long distances between small towns



Stakeholders

- Mendocino SHARE -- safety net clinics with chronic disease case management data in HRE
- Redwood MedNet -- solo/small practice clinics with EHRs (*clinical messaging proposal*)
- Public Health -- CalPHIN implementations underway (*RWJF Information Links proposal*)
- Hospitals -- supportive, but no specific use case yet (*EKG repository proposal*)

Scope

Deliverables

Architecture

Prototype

Portal

Type	Deliverable	Status
Specification	System Architecture	<i>Drafted</i>
	Implementation Guide (PECS)	<i>Drafted</i>
	Implementation Guide (eMDs)	<i>Not Started</i>
Prototype	Development Environment	<i>Deployed</i>
	Community MPI with test data	<i>Deployed</i>
	Patient lookup service	<i>Deployed</i>
	OpenHRE services for eMDs	<i>Not Started</i>
	RLS Deliverables Roadmap	<i>Not Started</i>
	RLS Acceptance test specs	<i>Not Started</i>
	SOAP interface to IRB*	<i>Not Started</i>
	Audit trail service	<i>Not Started</i>

*Intra-RHIO Bridge

Scope

Deliverables

Architecture

Prototype

Portal

Record Locator Service by OpenHRE

- Open Source J2EE tool kit
- Based on OpenEMed version of OMG PIDS
- Supports hierarchy of patient identity domains
- Configurable correlation schemes
- Provisions for federation of identity queries between RLS peers

OpenHRE Services

- Record Locator Service (RLS)
- Record Exchange Service (RES)
- Authorization and Access Decision Service (AAD)
- Lexical Translation Service -- planned

Open Source Components in OpenHRE

- OpenEMed (Los Alamos National Labs)
- DataServer (UCLA Medical Imaging Informatics)
- Tomcat
- Apache Cocoon & Axis
- OpenLDAP
- Sun XACML
- MySQL

SHARE Deployment Environment

- Dell dual-processor Xeon, RedHat Enterprise with J2EE on Tomcat integrated with Apache Cocoon, MySQL, OpenLDAP, Kerberos and Sun XACML
- JDBC to Windows mirror of chronic disease case management databases (PECS) at safety net clinics
- Production servers in data cabinet with private circuits to safety net clinics
- Single processor lab server for prototype development

Scope

Deliverables

Architecture

Prototype

Portal



Alliance for Rural Community Health

Mendocino SHARE HRE (Health Records Exchange) TEST/TRAINING 0.9.0

Welcome! Please Login

UserName:	<input type="text" value="arch1@arch.org"/>
Password:	<input type="password" value="*****"/>
<input type="button" value="Authenticate"/>	

powered by



distributed by



developed and supported by





Alliance for Rural Community Health

Mendocino SHARE HRE (Health Records Exchange) TEST/TRAINING 0.9.0

Patient Lookup

First identify the person whose data is desired, then retrieve the history of that person.

Enter any portion of fields listed below then
click **Query** to find the person matching input parameters
(It will try to find all individuals with values beginning with the information entered)

User:

Last Name	First Name	Sex
<input type="text" value="brat"/>	<input type="text"/>	<input type="text" value="Male"/>
<input type="button" value="Query"/>	<input type="button" value="Clear"/>	<input type="button" value="Logout"/>
<input type="button" value="Help"/>		

- Male
- Female
- Unknown
- Other



Alliance for Rural Community Health

Mendocino SHARE HRE (Health Records Exchange) TEST/TRAINING 0.9.0

Select Page
Beginning with
[Brattain, Arthur](#)
[Brattain, Janice](#)

Patients Matching Search Criteria : PatientName = 'BRAT'

Click on the Patient name to view their extended demographics. Click on the Facility link to view their PECS history.

Patient Records 16 thru 26 of 25

Patient	Group	Sex	DOB	Records	Security Override	Score	Display Group
Brattain, Janice		F	11/27/1953	MC1/PECS			
Brattain, Jeff		M	09/07/1945	MC1/PECS			
Brattain, Kendra		F	03/22/1933	MC1/PECS			
Brattain, Kyle		M	04/05/1968	MC1/PECS			
Brattain, Lorraine		F	02/28/1956	MC1/PECS			
Brattain, Louis		M	12/15/1939	MC1/PECS			
Brattain, Mary		F	09/18/1948	MC1/PECS			
Brattain, Monte		M	02/21/1954	MC1/PECS			
Brattain, Samantha	<input type="checkbox"/>	F	06/27/1952	MC1/PECS			Show Grouped
Brattain, Samantha	<input type="checkbox"/>	F	06/27/1952	MC3/PECS	<input type="checkbox"/>	100	
Brattain, Sylvia		F	10/11/1950	MC1/PECS			

Navigate within your results

Scope

Deliverables

Architecture

Prototype

Portal

OPENHRE.ORG MAY 08, 2005 - 10:55 AM



OpenHRE™ .org

Open Source Health Records Exchange



Main Menu

- [Home](#)
- [FAQ](#)
- [News](#)
- [Topics](#)
- [Downloads](#)
- [Discussions](#)
- [Web Links](#)

Search

- [Search](#)
- [Recommend Us](#)

Online

We have 1 guest and 0 members online

Welcome Guest, become a [member](#) today.

Welcome to OpenHRE™.org

Please comment on our [Use Cases](#). Which of these pertains to the use you wish to make of OpenHRE™? Tell about yourself and what you are doing by clicking on [Submit News](#). In order to submit an article or comment you need to be registered as a site member. Your email address is required to register, but will be kept private unless you wish to publicize it.

- **Mission:**
 - to foster development, distribution and support of Master Patient Index and Health Record Exchange systems and components held as Free/Open Source Software
 - to build a community to this aim
 - to realize this goal via a self-sustaining business model and open collaboration among all stakeholders
- **Goal:**
 - to accelerate the National Health Information Network (NHIN) implementation by providing public domain tools to Regional Health Information Organization (RHIO) initiatives (and save the world!)

Login

Username

Password

Remember me

[Log in Problems?](#)
[New User? Sign Up!](#)

Categories Menu

- [Discussions](#) (Sep 28, 2004)
- [Electronic Health Records](#) (Mar 09, 2005)
- [General](#) (Aug 03, 2004)
- [Health Records Exchange](#) (Aug 25, 2004)
- [Master Patient Index](#) (Aug 04, 2004)
- [National Health Information Network](#) (Jan 19, 2005)
- [Product Reviews](#) (Aug 20, 2004)
- [Security](#) (Apr 01, 2005)

RLS versus MPI

Posted by: grodecki on Saturday, April 16, 2005 - 11:14 PM 26 Reads



OpenHRE consists of three Services:

1. Record Locator Service
2. Records Exchange Service
3. Authorization and Access Decision Service