

Open Source in Public Safety and Healthcare

Speakers:

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President and Chief Medical Officer, World Vista

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GOSCON Panel Presentation

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CONNECT Initiative Lead
Federal Health Architecture

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➔ CONNECT

The Federal Response to the NHIN

CONNECT is a multi-agency developed software solution that allows agency systems to exchange health information securely. It is an open source solution built to be:

- A Platform for Participation
- A Platform for Innovation

CONNECT is a platform for Meaningful Use HIE/EHR:

- Integration
- Migration
- New Development















- **Gateway**
- **Enterprise Service Components (ESCs)**
 - Universal Adapter
 - ESC Adapter
- **Universal Client Framework**



➔ Federal Agencies Deploying CONNECT

Federal Agencies	Testing/Demonstrating CONNECT				In Production w/CONNECT			
 Centers for Disease Control				★				
 Centers for Medicare and Medicaid Services			★					
 Department of Defense				★				
 Department of Justice		★						
 Department of Veterans Affairs				★				
 Food and Drug Administration	★							
 Indian Health Service			★					
 National Cancer Institute	★							
 National Disaster Medical System			★					
 Social Security Administration							★	

➔ State & Private Sector Organizations Testing/Deploying CONNECT

States Piloting CONNECT



Private Sector Using CONNECT



Orange County ConnectCare





Providing integration and implementation support.



Offering “CONNECT in a box” packaged with Cisco router



Incorporating CONNECT into its open source PHR offering



Providing integration, support services and adaptor development



Integrating with Initiate’s master patient index by developing the customized adapter



Evaluating ways CONNECT can enable data exchange between rural health care providers within a region and across the country



Developed a cross enterprise security and privacy authorization component and made it open source for the CONNECT community. The component was included in the CONNECT release 2.1



Creating an open source healthcare integration engine for CONNECT to fast track the last mile of integration between CONNECT and edge systems



Offering implementation support for CONNECT



Providing product support for the Sun components in CONNECT and offering integration support from CONNECT to their open source MPI.



Created an open source XDS.b to support federated document repositories and a document registry that will be incorporated into CONNECT 2.2. The company is also offering implementation services



Released under a “**non-viral**” **license** that makes it easy to develop solutions using the CONNECT software code base

A website where interested parties can **download** the CONNECT solution at:
www.connectopensource.org



Health Information Exchange supporting
meaningful healthcare reform for ***all*** Americans

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Free and Open Source EHR

Nancy E. Anthracite, MD
President & CMO

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- Developed by the Department of Veterans Affairs over 30 years
- Used in all of their 170 + hospitals and 1000 + clinics
- Public Domain software
- Can be download from the Internet



Proven to Improve Care
Proven to Reduce Costs
Evidenced Based
Standards Based

Recognized Excellence

**Harvard Innovations in Government
Award for Health Information Technology
at the US Department of Veterans Affairs
(VistA) – July 2006**

**RAND Criteria study – VA outperforms the
all other sectors of American Healthcare –
Annals Internal Medicine December 2004**

Recognized Excellence

The Best Medical Care In The U.S: How Veterans Affairs transformed itself - Arnst, Business Week July 17, 2006

“The Centerpeice of that culture is VistA.”

How the VA Became the Best – TIME Jan. 2006

Best Care Anywhere – Longman PoliPointPress 2007



Vista includes over 100 modules that may be used or not as users choose including ...

- CPRS which is the GUI clinicians interface
 - Registration
 - Laboratory
 - Nutrition
 - Pharmacy
- Mental Health Assistant

Examples of what VistA has Facilitated at the VA

- Bar code medication system reduces drug related errors.

The Veterans Health Administration: Quality, Value, Accountability, and Information as Transforming Strategies for Patient-Centered Care, (American Journal Managed Care. 2004;10(part 2):828-836)

- Improvements in postoperative morbidity and mortality rates.

Quality Initiatives Undertaken by the Veterans Health Administration August 2009, The Congress of the United States, Congressional Budget Office, pg. 17

- Significant improvement in disease management through the use of evidence based clinical reminders.

The Decade of Health Information Technology: Delivering Consumer-centric and Information-rich Health Care Framework for Strategic Action July 21, 2004, Attachment 2, Office of the National Coordinator, US Dept. of Health and Human Services

VistA is Free, Open Source and 508 Compliant

- **In the Public Domain from the VA**
- **FREE** as in Freedom to modify and adapt as you see fit and **FREE** to keep and **FREE** to choose your support options – **NO VENDOR LOCK-IN** if you chose the right version – very important in healthcare!
- **508 COMPLIANT** - for those with disabilities

Major Enhancement to VistA from the non-VA Community

You have the option to run your server on an open source stack of software – VistA, GT.M and Linux or with Intersystems Cache and Windows.



- WorldVista's mission is to improve health worldwide by making affordable, effective, highly integrated electronic health information technology universally available
- 501(c)(3) nonprofit corporation
- A rapidly growing **COMMUNITY**
- International participation: Jordan, UK, Malaysia, India, Mexico, Vietnam, Germany, Turkey, etc.
- Users, vendors, coders, organizations large and small including universities, businesses and from government.

WorldVista EHR

WorldVista EHR is licensed under the GNU Public License and is an enhanced version of Vista.

It is a guarantee to you and to the community that WorldVista EHR will not disappear and that all integrated enhancements that are distributed will be available to the community of users and developers worldwide.

WorldVistA EHR Came Out of the VistA-Office EHR Project

- Funded by CMS directly and through the Iowa Foundation for Medical Care
- Adapted VistA for physicians' offices and add the quality reporting tool, DOQ-IT
- WorldVistA was one of the contractors on this project, initially to train vendors but this role changed as the project progressed.

Examples of the Enhancements

- Added ability to choose registration that is not veteran specific.
- Remove the necessity of using the social security number for all patients and providing for a long and unique patient record number for the system.
- Added other options for patient lookup.
- GUI registration.
- Pediatric and OB-GYN templates for progress notes

Examples of Enhancements

- Document scanning without the need to use all of the VistA Imaging package
- Enhancements for reporting patients to disease registries.
- DOQ-IT reporting.
- Numerous new Clinical Reminders.

Examples of Enhancements

- Prescription finishing so that prescriptions can be printed or faxed to a local pharmacy from within CPRS (The VA always has an onsite pharmacy.)
- Use of an open source interface engine to help make working with clinical laboratories easier.
- GUI Registration

We hope you will decide to join
our community as a user or a
volunteer. Please do not hesitate
to contact



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Questions?

Tell us what you think:
Complete the survey