

CHIC-RHIO eAuthentication

a Step toward Single Sign-on

Melinda Machones
June 28, 2007

Overview

- History of CHIC-RHIO
- Challenges faced
- Overview of Key Projects
- Members and Resources
- Current Status
- Lessons Learned

History of CHIC-RHIO

- Work Group within Community Health Information Collaborative (CHIC)
- RHIO Vision:
An organization that *facilitates* the sharing of health information across all organizations contributing to the continuum of patient care.
- Initial Focus on a single web portal



HOSPITALS

- Bigfork
- Cloquet
- Cook
- Cuyuna
- Deer River
- Ely-Bloomenson
- Hutchinson
- International Falls
- Kanabec
- Mercy
- Miller-Dwan
- North Shore
- Regina
- Riverwood
- St. Luke's
- SMDC Health System
- St. Mary's Regional
- Virginia

HOSPITAL REMOTE ACCESS

Use the list of hospitals in the left navigation to select a hospital for which you want remote access.

CHIC is participating in a physician authentication pilot with HIMSS and the federal government's General Services Agency (GSA). The objective of this pilot is to test its applicability for single sign-on access to multiple remote electronic health record (EHR) systems. CHIC has retained VisionShare Inc to build a state-of-the-art Shibboleth system to provide this service.

[Click here to enter the CHIC/HIMSS/GSA Single Sign On Project Page](#)

Challenges Faced

- Existing Patient Consent laws
- Usability Issues accessing multiple systems
 - Numerous log-ins
 - Not User Friendly
- Variety of EHR systems
- Training
- Credentialing

Addressing Challenges

- Prepare and wait *or* Find new projects??
 - Secure E-mail: Streamline existing processes
 - HealthBio™ PHR: User controls
 - **Single Sign-on: Proof of concept**

Single Sign-on Project



- Proof of Concept
- Addresses multiple log-ins issue
- Requires higher level of security than just log-in and password – *2-factor security*
- Supports one id to access authorized systems

Goals

- Develop single sign-on service with several CHIC-member hospitals
- Use High or Very High Assurance Level Security
- Test usage of Federal Government ACES PKI certificates
- Test concept of “Federated Identity Management”
- Test an open-source solution called “Shibboleth”
- Test access via Citrix web front end (Phase II)

Solution

- HIMSS/GSA project
- 1 of 7 in US to participate
- Can digital certificate technology work in healthcare?



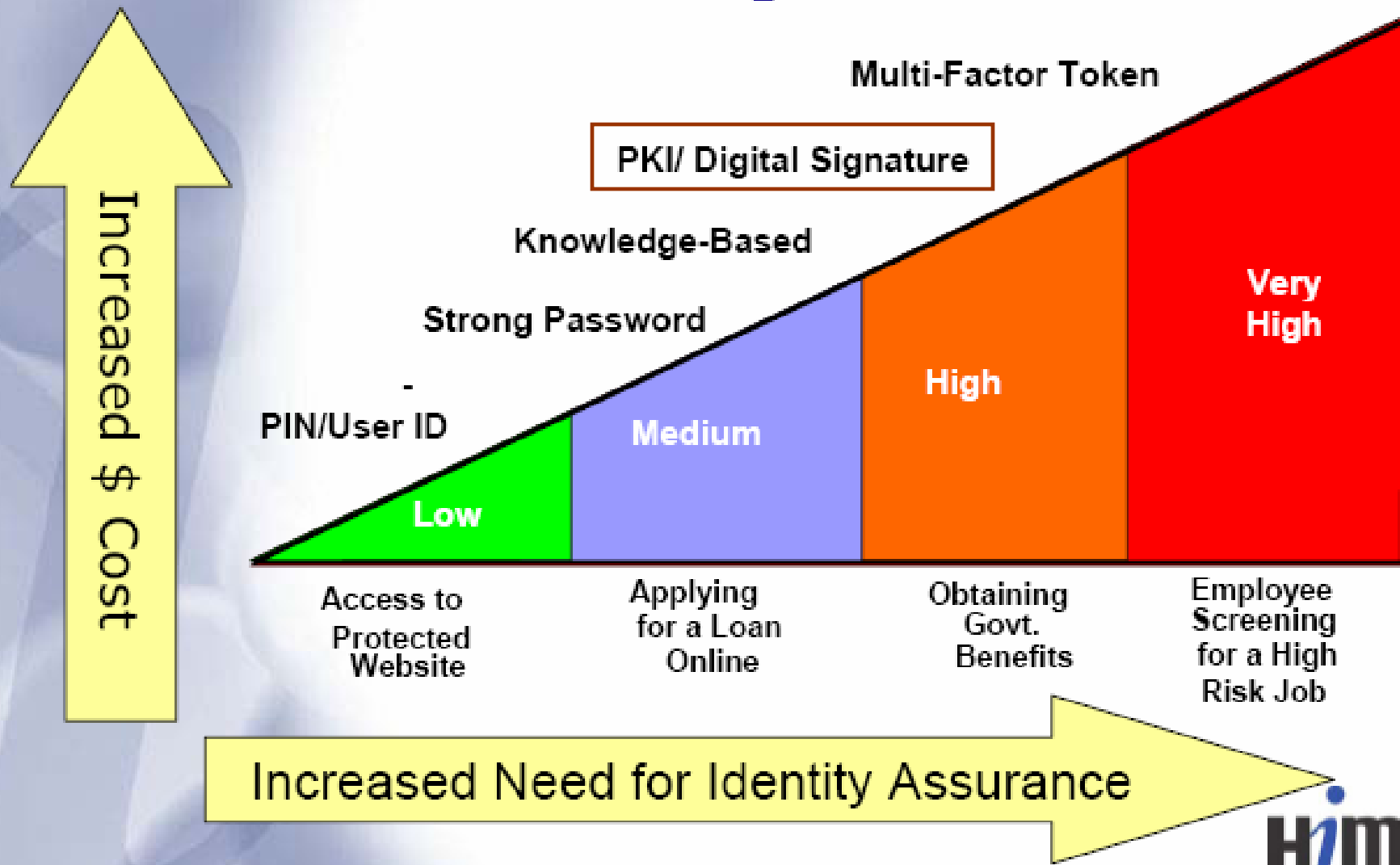
Fit Page

HIMSS/GSA E-Authentication Initiative
A Pilot Project of the HIMSS RHIO
Federation

HIMSS Public Policy Forum
September 28, 2006

Mary Grizkewicz, HIMSS
David Temoshok, GSA

Four Authentication Assurance Levels to Meet Multiple Risk Levels



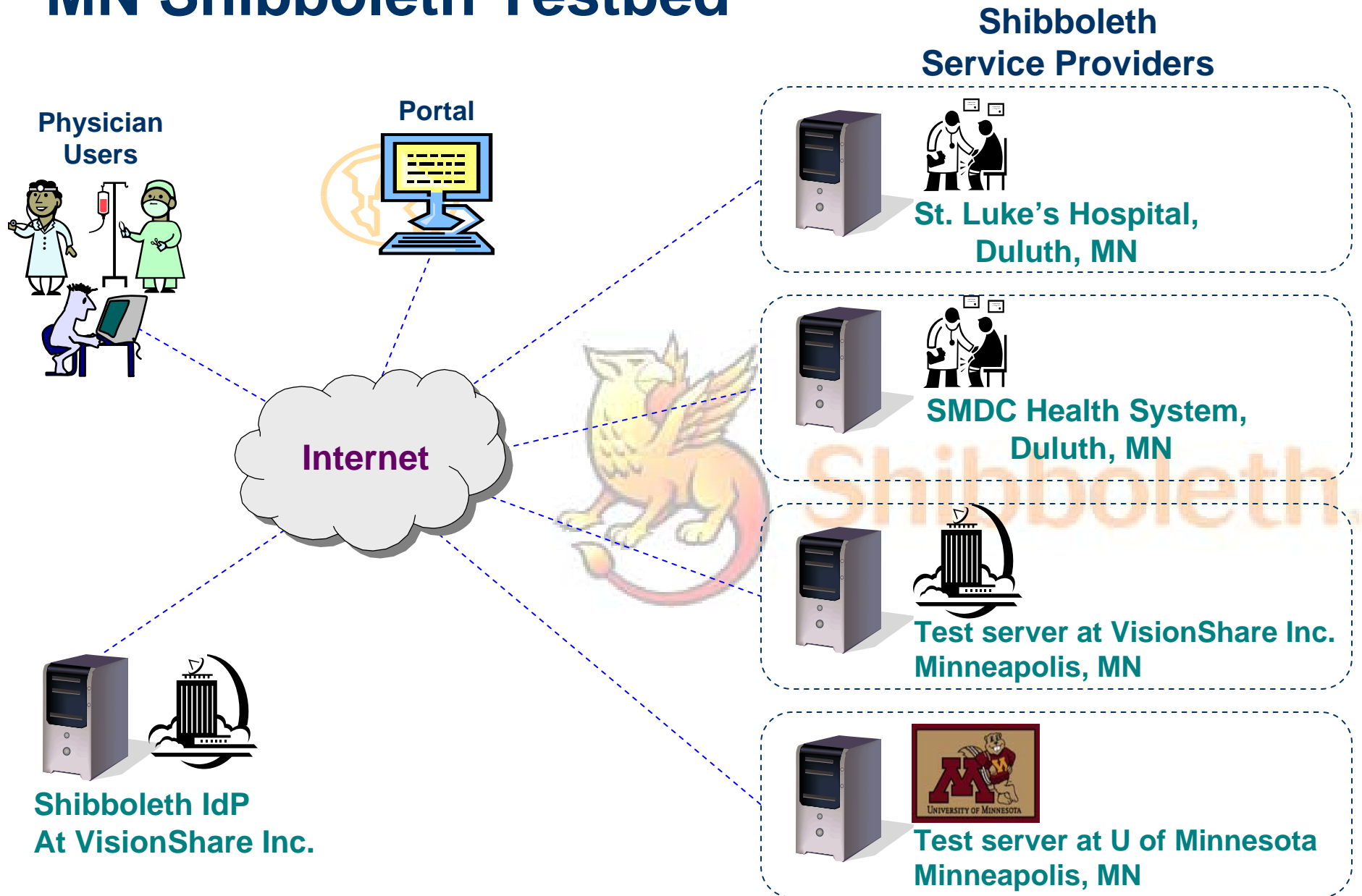
Project Plan

- Identify users and systems
 - 2 Local Registration Authorities
 - 3 Physicians
 - 3 Technology Specialists
 - 3 Healthcare Organizations
 - 4 Test Servers
 - 1 e-Authentication Server

Project Plan

- Identify users and systems
- Identify technology to implement
 - VisionShare experience
 - University of Minnesota graduate project
 - Shibboleth technology
 - An Internet2 Middleware Initiative that has created an architecture and open-source implementation for federated identity-based authentication and authorization infrastructure

MN Shibboleth Testbed



Project Plan

- Identify users and systems
- Identify technology to implement
- Create network
- Order / Install digital certificates
 - GSA-sponsored vendor: ORC
 - Local Registration Authorities
 - Web Registration + signatures and two photo ids

Project Plan

- Identify users and systems
- Identify technology to implement
- Create network
- Order / Install digital certificates
- **Test**
 1. Ordering Process with ORC
 2. Installation of Digital Certificates
 3. Logging into remote servers

Browser window showing the URL: <https://rhiolink.slduluth.com/secure/certificate/>. The browser displays a "Certificate Error" warning. The address bar also shows "Google".

Browser tabs include: <http://www.himss.org/advoc...>, [Shibboleth \(Internet2\) - Wiki...](#), and [CHIC-RHIO Physician e-A...](#)

Congratulation !!!

You are viewing this page because you are fully authenticated and authorized with a valid certificate. You were authenticated by the federation CHIC-RHIO's shibboleth Identity Provider to fully access this resource.

Secured Resource

<https://rhiolink.slduluth.com/secure/certificate/index.asp>

Please check following information. These attributes are released by the CHIC-RHIO Identity Provider

CHIC-RHIO e-Authentication User Information

Attribute	Attribute Name
User Name	Melinda S Machones@chic-rhio.org
User Role	Physician
Authentication Method	Certificate-Based Authentication
Affiliation	Physician@chic-rhio.org



Logo

Internet

100%

Project Plan

- Identify users and systems
- Identify technology to implement
- Create network
- Order / Install digital certificates
- Test
- Report
 - White Papers, HIMSS Conference, etc.

Next Steps

- Interstate Testing
 - eHealth Ohio Initiative
 - Michigan
- Include links beyond EHR Systems
 - Immunization Registry
 - Bloodspot Screening
 - Newborn Hearing
- Master Patient Locator
- Research HL7 Messaging / CCR



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Shibboleth®

Shibboleth IdP
At VisionShare Inc.



Test server at U of Minnesota
Minneapolis, MN

Shibboleth providers

Hospital, MN

Health System, MN

at VisionShare Inc., MN



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