

HealthKey Program

Secure E-Health Solutions

A Program funded by The Robert Wood Johnson Foundation

Presentation to:

WEDI

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Presented by:

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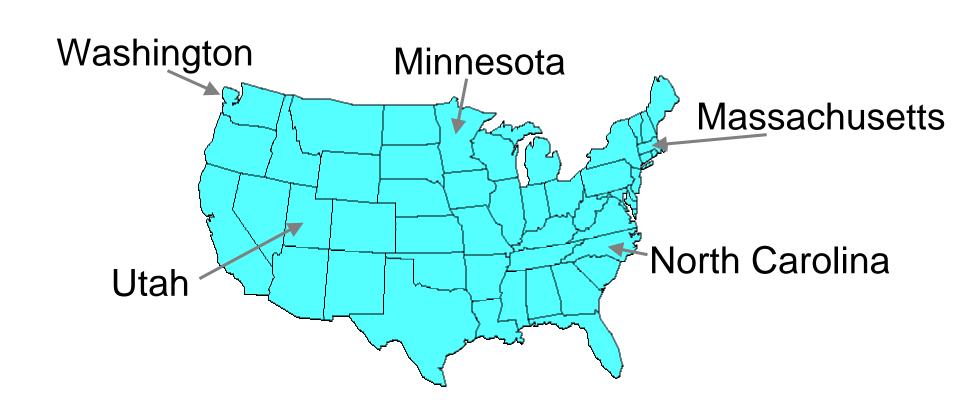
Introduction to the:

HealthKey National Program





HealthKey National Program A 5-State Project



HealthKey Origins

- □ Funded by \$2.5 million grant from The Robert Wood Johnson Foundation-Fall 1999
- Collaboration to advance the development of health information infrastructure
- Market-driven, community-based approach
- VisionShare retained to coordinate pilot efforts in 5 states (MA, MN, NC, UT, WA)





HealthKey Participants

- Massachusetts Health Data Consortium (MHDC)
- Minnesota Heath Data Institute (MHDI)
- North Carolina Healthcare Information and Communications
 Alliance (NCHICA)
- Utah Health Information Network (UHIN)
- Washington: Community Health Information Technology
 Alliance (CHITA)



HealthKey Goals

- Identify interoperable, standards-based solutions to real business problems
- Pilot PKI and similar technologies to test evolving health information infrastructure
- Identify Solutions to achieve HIPAA compliance



<u>PKI?</u>

- 1. Public Key Infrastructure
 - Note "Public Infrastructure"!
 - Uses public/private keys



- X509v3 standards
- 3. Widely Used Already by:
 - All secure web sites
 - Microsoft signed downloads
 - Novell
 - Smartcards
 - iButtons
 - etc..





HealthKey MN



Proposed HealthKey MN Smartcard:





Multiple Private Key Storage Options:



www.healthkey.org

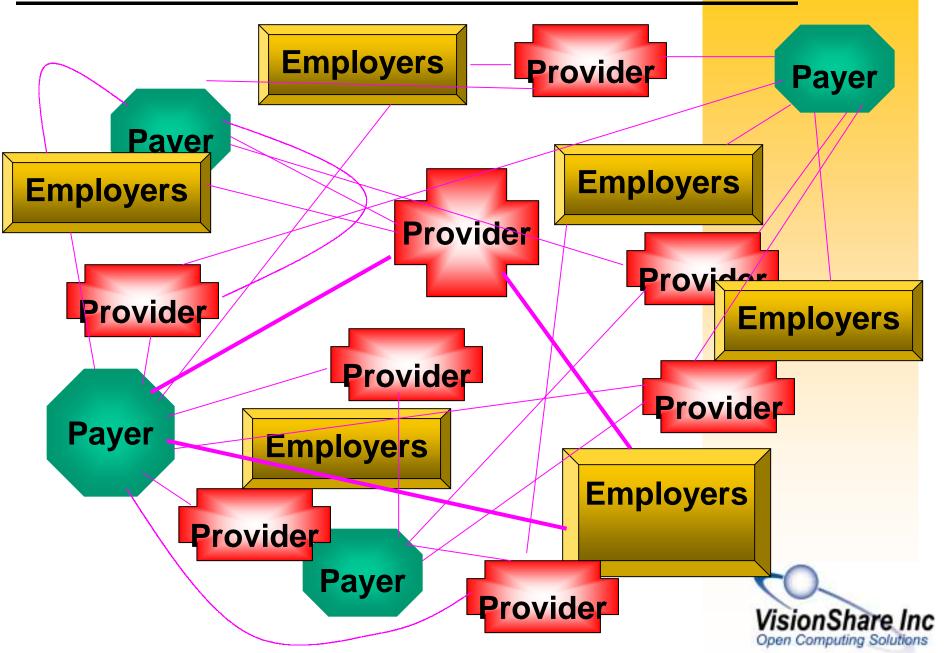
Health Care PKI



Challenges & Opportunities



Health Care PKI - Communication needs:



Health Care PKI - Challenges:

- □ No large scale PKI exist today
- Existing PKIs -retail, banking, government, health care - are closed CAs
- ☐ Health Care is inherently an OPEN industry
- Many separate entities need to collaborate



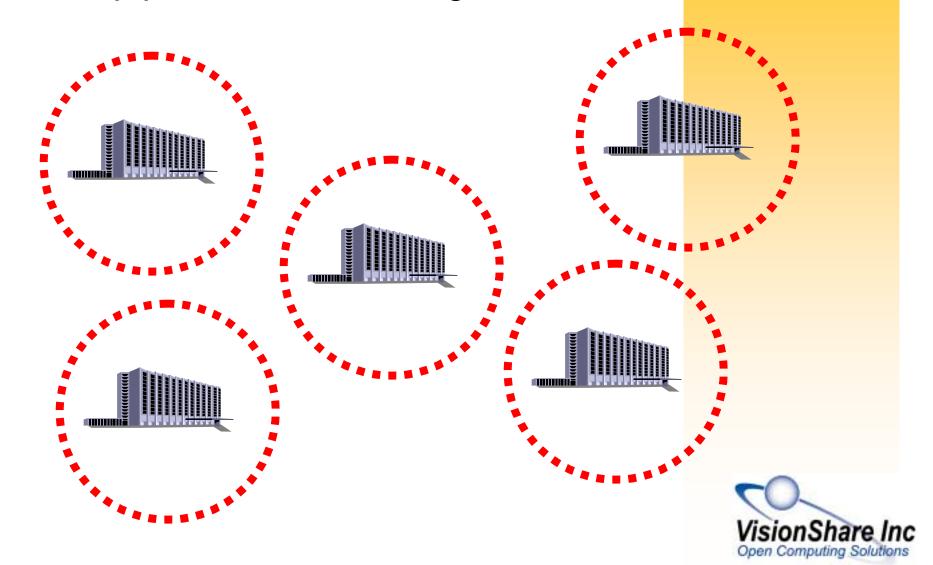
Health Care PKI - Challenges:

- Different models emerging
- Can't rely on single vendor to provide it all!
- Need community, trusted solutions!



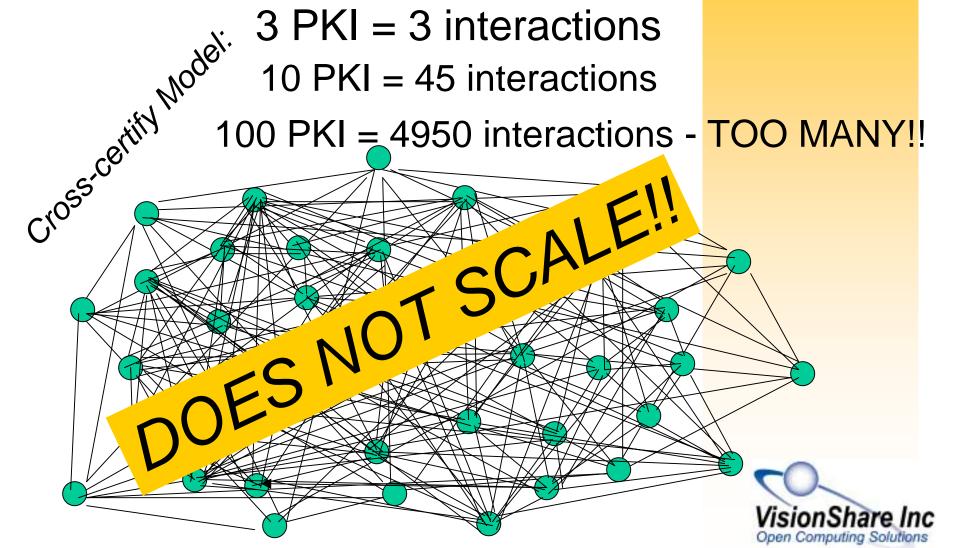
Health Care PKI - Challenges:

"Stovepipe" PKIs now being built - no coordination!



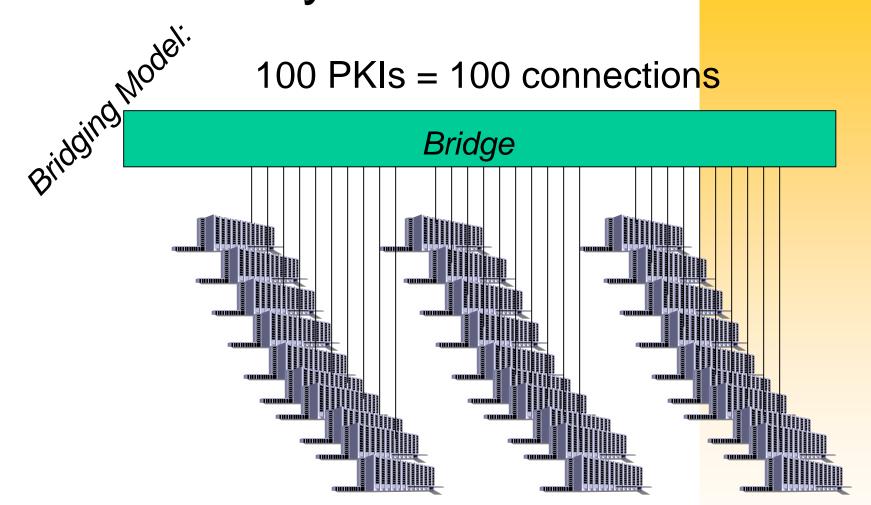
How Many Health Care PKIs?

"more" makes a difference



How Many Health Care PKIs?

100 PKIs = 100 connections



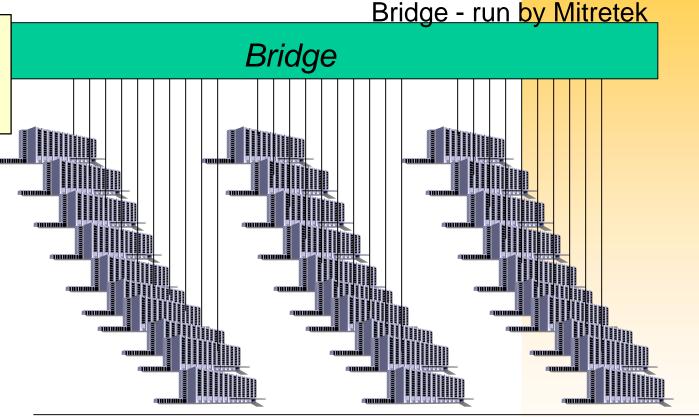




Model Bridge: Federal Bridge PKI

Bridge Magic:
- Cross Certify
- Path validation
- CP validation

- CP mapping Associations



Gov't Agencies



Background on Mitretek

- Mitretek is a non-profit technology company located in McLean, VA
- Mitretek performs a variety of telecommunications, security, healthcare IT, and other technology services for the Federal Government and selected other organizations
- Mitretek has developed the initial versions of the bridge technology for GSA



National HealthKey Bridge Implementation Timeline

- □ February 2001
 - Pilot project implementations in NC and MN
- □ March 2001
 - Mitretek Bridge operational
 - □ March 18-20, 2001 National HealthKey Summit
 - □ Demonstrate Bridge Functionality
- □ April 2001 onward
 - Additional projects/states added
 - □ Build national consortium



HealthKey Bridge Expected Benefits:

- ρ Allows validation of digital certificates from all member CAs
- ρ Members can operate own CAs
- ρ Automatic checking of trust path
- ρ Automatic validity check of digital signature
- Additional states/projects can tie in after pilot phase





HealthKey Consortium Proposal

Concepts for Discussion



HealthKey Consortium

- Goal: Further privacy and security in Healthcare
- Membership: Open to all
- Non-profit, neutral, independent of any specific vendors/providers/payers
- Member/consensus-driven everyone has a stake
- No member has a controlling interest

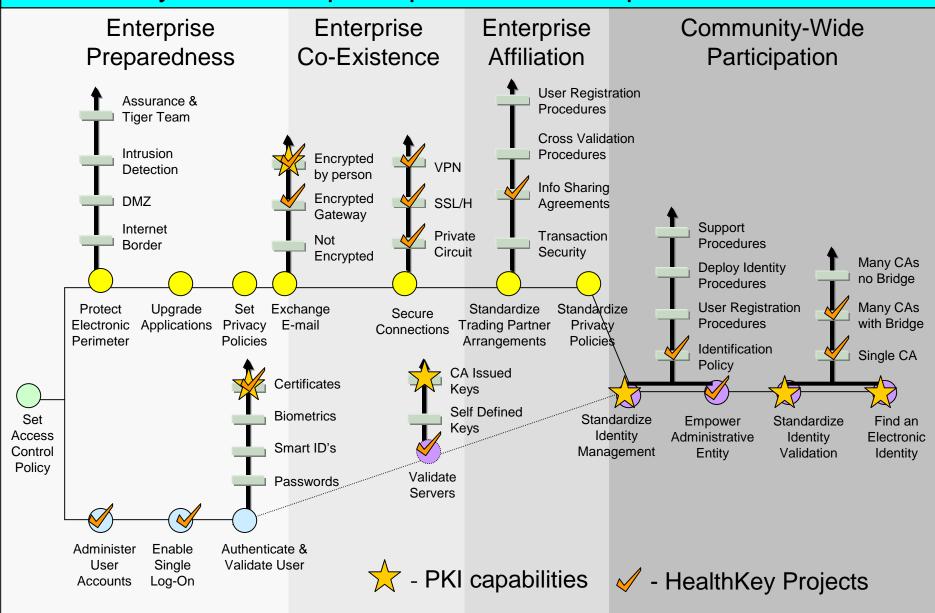


HealthKey Consortium

- Services Offered:
 - HealthKey Bridge to link members together
 - Support HIPAA Privacy and Security regs
 - Member CAs agree to standards & audits
 - Members could join via state-level memberships (for example, the current 5-state consortium)
- Subgroups do the work:
 - Membership Committee
 - Management Committee
 - Policy Committee



HealthKey's Roadmap - Implementation Options



For Further Information

Project web sites:

http://www.healthkey.org/

http://www.mhdi.org/

http://www.mitretek.org/

Related Sites:

Federal Bridge Project: http://gits-sec.treas.gov/index.shtml



