Improving Patient Care
Leveraging RSA Federated Identity Manager

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About Geisinger Health System

- Founded 1915, serves 41 county region in NE Pennsylvania
- 2007 Revenues of $2.0 billion with 12,000 employees
- 13 years experience with Electronic Medical Records (EMR)
- 6,000 concurrent clinicians with access to EMR
- 100,000 patients have secure access to their Geisinger EMR
- Currently in the last year of 3-year federally funded grant to create a Regional Health Information Exchange
  - 53 hospitals in 31 counties
  - 2,500,000 patients in record locator
  - 50 emergency physicians in 3 hospitals live
A focus on **quality of care** drives the implementation of clinical information systems, technology to reduce medical errors and an EMR.

**Security is a top priority**: nearly 1 in 4 reported a security breach in the last year. **Identity management and security technologies are top technologies** that will be implemented by healthcare organizations in the next two years.

Healthcare organizations are **accelerating investments** in technologies, which allow better understanding, analysis and **accessibility** of clinical knowledge.
Major Objectives for Geisinger Health System

- Aggregate Key Clinical Data
- Security & HIPAA
- Improving Quality of Care
- Broader Real-time Access
Studies Demonstrate Information Essential to Patient Care is Unavailable in 15% of Emergency Department Visits

- Real-time access to patient information
- Begin small, and build incrementally, enabling hospitals and physicians to learn gradually and identify the business case incrementally
- Instill Patient confidence
- Physician use and satisfaction
- Geisinger 80K ER visit/yr

Acuity of Patient Condition
The KeyHIE Infrastructure

Keystone Health Information Exchange
Federation is the Business Enabler

User Workstation

1. Citrix® Client

2. Citrix® Farm

3. Epic® Server

4. FIM Presentation Server

5. ClearTrust 5.5.3

6. KeyHIE™ Portal

- Web Server
- BEA WebLogic Plug-In
- FIM 3.1 (On BEA WebLogic)
- Custom .WAR File
- FIM 3.1 Assertion API

- Identity Provider
  - IdP Session Plug-In (Java)
  - IdP NameID Plug-In (Java)
  - IdP Attribute Plug-In (Java)

- Service Provider
  - SP NameID Plug-In (Java)
  - SP Session Plug-In (Java)
  - SP Attribute Plug-In (Java)

- FIM Error (JSP)

- Web Server
- ClearTrust Agent
- OS

- Web Server
- ClearTrust 5.5.3
- OS

- Database
- Cleartrust 5.5.3 Schema
- OS

- Internet Explorer

- Epic® App
- OS

- Epic® Client

- Epic® App
- OS

- Epic® App
- OS

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What’s Next?

- Continued leadership in developing a self-sustaining Pennsylvania-wide Health Information Exchange
- Add additional meaningful patient data such as the proposed standardized Document Registry and Repository
- Continue to bring new hospital partners into the Exchange (Initial goal of 53)
- Keep ongoing focus on security and privacy and utilize Identity Federation & Data Exchange standards
- Develop/Monitor Exchange Usage Statistics
- Have fun doing it !!!
Thank you!

The Security Division of EMC