ONC Update on Standards
Harmonization and NHIN Trial Implementations

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November 28, 2007
Standards in the National HIT Agenda

- American Health Information Community Priorities (AHIC)
- Use Cases
- Healthcare Information Technology Standards Panel (HITSP)
- Interoperability Specifications
- Certification Commission for Healthcare Information Technology (CCHIT)
- Stark and Anti-kickback
- Federal Systems and Healthcare Contracts (Executive Order 13410)
- Nationwide Health Information Network (NHIN)
Standards Activities in National Agenda

• Data and technical standards for tangible interoperability
  – Driven by specific healthcare purposes (“business driven”)
  – Demonstrate reduced integration costs and increased ease of information exchange

• Standards for security and confidentiality controls

• Standards to support EHR and other application functionality are also important, but necessarily less direct

• Testable implementation specifications are necessary to establish interoperability
  – Inspection testing of standards and specifications
  – Implementation testing of standards and specifications
  – Application and implementation testing for developers
  – Certification of systems
## Dependencies

- **Testable interoperability**
  - Identified data and technical standards
  - Detailed specifications
  - Testing infrastructure

- **Identified standards and specifications**
  - Valid process for identifying “named” standards
  - Well maintained, implementation level guidance

- **Valid process for identifying standards**
  - Context for standards use
  - Multi-stakeholder process

- **Context for standards use**
  - Business priorities
  - Alignment with broader agenda
Coordinated Timeline

Two Years

AHIC Use Cases

2006
2007

New Federal System

CCHIT 2008 Criteria Development

AHIC Emergency Responder EHR Use Case Published

HITSP Emergency Response Constructs

We are here

AHIC Medication Management, Quality and Consumer Access

HITSP Medication Management

Accepted by

Sec.
Refining the “cycle”

- AHIC use cases to be delivered earlier – reducing dependency on availability of priorities
- HITSP funded to have staff try to alleviate demands on volunteers
- HITSP working on processes to facilitate engagement by full spectrum of participant organizations
- HITSP – CCHIT joint working group working on coordination between organizations
- CCHIT and HITSP priorities in AHIC process to help ensure that process priorities are part of AHIC consideration
- HITSP / CCHIT / NHIN “Roadmap Standards” process to provide intermediate guidance for pressing needs
AHIC Priorities and Use Case Roadmap

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| Data                  | Visitor ID                 | Visitor ID                 | collaboration             |
| Control               | Visitor ID                 | Visitor ID                 | AHIC 46.0 Legal liability |
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|                       | Visitor ID                 | Visitor ID                 | entities HITSP 1.2 X12 Claims attachment |
Nationwide Health Information Network

Trial Implementations
The Nationwide Health Information Network

NHIN Working Assumptions

• a ‘network of networks’
• securely connects consumers, providers and others who have, or use, health-related data
• no national data store or centralized systems at the national level
• no national patient identifier
• shared architecture (standards, services, and requirements), processes and procedures
The Nationwide Health Information Network

- **Health Information Exchange (HIE)** - An entity that enables the movement of health related data among entities within a state, a region or a non-jurisdictional participant group
  - “Classic” RHIOs at regional and state levels
  - Integrated delivery systems
  - Health data banks that support health information exchange

- **NHIN Health Information Exchange (NHIE)** – An HIE that implements the NHIN architecture, processes and procedures and participates in the NHIN Cooperative

- **Health Information Service Provider (HSP)** – A company or other organization that supports one or more Health Information Exchanges by providing them with operational and technical health exchange services
NHIN Core Services - Building Blocks for Priority Initiatives

Health Initiatives

Capabilities

Core Services

- Access to provider organizations nationally
- Regional and state-based information management
- Secure, reusable infrastructure for health initiatives
- Patient lookup and Information retrieval
- Information routing and delivery (including summary patient records)
- Consumer access controls
- Provision of electronic data for reporting and other uses

CE – PHRs, Registration and Medications
Consumer Access to Clinical Information
EHR: Lab Results Reporting
Medication Management
Quality
Biosurveillance
Emergency Responder EHR
Other Priority Initiatives
Steps to the NHIN

Step 1
Prototype

Prototype Architectures 2006/2007

Step 2
Specify and Test

Trial Implementations

Step 3
Production

Implement Production Services By 2009/2010

Input from other national agenda processes
Issues and obstacles help set agenda for other national agenda processes
NHIN Trial Implementations Year One

- Demonstrate *in-situ*, interoperable and secure health information exchange based on common specifications.
- Build a foundation for production level services and initiatives to come.
- Core Services Demonstrations
  - Deliver data across HIEs
    - Including summary record, look-up and use case data
  - Look-up and retrieve data across HIEs
    - From locations in EHRs and PHRs / Health Data Banks
  - Exchange consumer access permissions
    - Decision to not participate in electronic exchange of their data
    - Workable permissions for who can access what
  - Support the delivery of data for population uses
- Use Case Demonstrations
  - Individually identified
NHIN Cooperative

Leadership and Communications Workgroup

DURSA Workgroup
Testing Workgroup

Consumer Perspective
Provider Perspective
Population Perspective

Use Case Perspective Workgroups

Core Services Workgroups
Core Services Content
Technical and Security Core Services

Core Services Content
Technical and Security Core Services