



Strengthening Healthcare Communities

Advancing Health IT

Standards Update & Federal Health Architecture Overview

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Agenda

1. Standards Update

- Structured Data Capture Initiative

2. Federal Health Architecture

- Program Overview
- Vision & Goals for 2013



Standards Update: Structured Data Capture (SDC) Initiative

Focus: Solve a specific interoperability challenge through the development of four new standards that will enable EHRs to capture and store structured data.

- Standards for the CDEs that will be used to fill the specified forms or templates
- Standards for the structure or design of the form or template (container)
- Standards for how EHRs interact with the form or template
- Standards to auto-populate form or template

Goal: Address this challenge in terms of the structured data requirements needed in Research and Patient-Safety Event Reporting



Standards Update: DRAFT SDC Charter Scope Statement

Define the necessary requirements which will drive the identification and harmonization of standards that will facilitate the collection of supplemental EHR derived data

Develop and validate a standards based data architecture so that a structured set of data can be accessed from EHRs and be stored for merger with comparable data for other relevant purposes to include:

- The **electronic Case Report Form (eCRF)** used for clinical research including Patient-Centered Outcomes Research (PCOR)
- The **Incident Report** used for patient safety reporting leveraging AHRQ 'Common Formats'
- The **Surveillance Case Report Form** used for public health reporting of infectious diseases



Standards Update: SDC Development

Charter: Draft is available for S&I community review on the wiki at <http://wiki.siframework.org/Structured+Data+Capture+Initiative>

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Federal Health Architecture

PROGRAM OVERVIEW VISION & GOALS FOR 2013



Federal Health Architecture: Advancing National Health IT

Federal Health Architecture (FHA) program was established as an OMB E-Gov Line of Business (LoB)

- To support federal activities related to the development and adoption of health IT standards
- To ensure that agencies seamlessly and securely exchange health data with other agencies, other government entities, and with other public and private organizations

Over time, FHA's focus and scope has expanded

- To emphasize federal advancement of the national agenda for health IT
- To provide enterprise architecture, standards adoption, tools and communication support





FHA Participation

FHA is working to engage the following agencies and other federal entities in initiatives such as the Nationwide Health Information Network, the Direct Project, EHR adoption and CONNECT

- E-gov initiative managed by ONC within HHS
- Many federal agencies participate





Federal Health Architecture: Advancing National Health IT

2003
to
2008

FHA's Early Years

- **July 2003** – OMB established FHA with HHS as the Managing Partner
- **March 2004** – FHA designated by OMB as an e-gov initiative and a Line of Business initiative within the *Federal Enterprise Architecture*
- In **2006**, FHA was moved organizationally within HHS from the Office of the Chief Information Office to ONC

Key Initiatives

- Federal Health Enterprise Architecture
- Consolidated Health Informatics (standards)
- Standards Education and Coordination
- Federal Health Information Planning and Reporting/Investment Planning



Federal Health Architecture: Advancing National Health IT

2009
to
2011

FHA's Evolution

- **2009** – ARRA/HITECH
- **2010** – Patient Protection and Affordable Care Act (ACA)
- **2010** – Federal CIO's "25 Point Implementation Plan to Reform Federal Information Technology Management"
- **2010** – President's Council of Advisors on Science and Technology (PCAST) "Report to the President: Realizing the Full Potential of Health Information Technology to Improve Healthcare for Americans: the Path Forward"

Key Initiatives

- Nationwide Health Information Network (NwHIN) Exchange
- CONNECT



Federal Health Architecture: Advancing National Health IT

FHA in 2012: Strategy and Architecture

New Governance



- More strategic alignment within and across Federal partner agencies
- Greater transparency and enhanced communications
- Commitment to fulfilling original intent of FHA as E-Gov Line of Business

Strategy Planning



- FHA Strategic Plan nearing completion
- FHA Line of Business (LoB) Service Plan delivered to OMB

Interoperability Architecture



- Identify current and planned data exchanges among Federal agencies and partners
- Develop FHA public-facing portal
- Align with standards harmonization efforts (e.g. Standards and Interoperability Framework)
- Demonstrate exchange methods beyond Direct and SOA – RHEX pilots



Federal Health Architecture: Advancing National Health IT

FHA in 2012: Innovations

RESTful Health Exchange (RHEX)

- An open source project, sponsored by FHA
- Demonstrated simple, secure, standards-based Web technologies for health information exchange

Two Pilots

- **Telemedicine & Advanced Technology Research Center (TATRC)**
 - Use Case: Consult/Referral
 - Secure Person to Person exchange
 - OpenID Connect for distributed user authentication
- **HealthInfoNet**
 - Use Case: Populate clinical data repository with patient data from HER at small health care provider in medically underserved area to Maine HIE
 - Secure Machine to Machine exchange
 - OAuth2 for service to service authentication



Federal Health Architecture: Advancing National Health IT

FHA in 2012: Innovations

CONNECT open source

- CONNECT code on GitHub, sprint sessions open
- Engaging open source community through code-a-thons, encouraging code contributions
- Developing CONNECT 4.0, incorporating Direct specifications





Partnership with eHealth Exchange

NwHIN Exchange is now eHealth Exchange

- Transitioned from ONC federal program to a public/private collaboration
- Healtheway, a non-profit, is supporting eHealth Exchange operations
 - Testing and onboarding
 - Maintaining DURSA, and operating policies and procedures
 - Service registry and digital certificates
- CONNECT is a gateway to eHealth Exchange

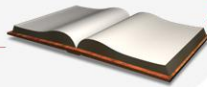




FHA Strategic Plan – Vision

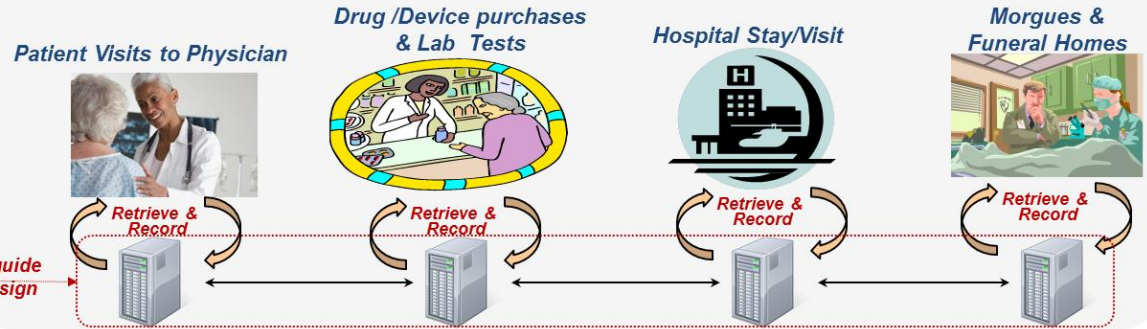
A Federal health information technology environment that is interoperable with the private sector and supports the President’s health information technology plan enabling better care, increased efficiency, and improved population health

FHA Convenes Stakeholders who collaborate to define Interoperability Standards



Standards guide System Design

Delivery of Health Care is recorded in systems that enable data exchange



Standards guide System Design

Government and Private Payer Systems enabled for data exchange



Reimbursement for Medicaid/Medicare:
Electronic record accessible for patient visits, assessment of treatment vs. accountable care standards



Public Health
Electronic record accessible for surveillance, and research



Benefit and Tax Administration
EHRs accessible for Disability Confirmation and Notice of Death



Reimbursement : Electronic record accessible by private sector payers



Record of Visit (Veteran or Active Duty)
Electronic record accessible to inform iEHR and VLER





Federal Health Architecture: Advancing National Health IT

FHA Moving Forward: 2013 and Beyond

STRATEGIC GOALS

Establish a unified Federal voice on health data exchange and interoperability

- Establish FHA as a “convener of stature”, and broaden participation
- Expand outreach and access to tools

Achieve adoption of interoperability specifications, leading to active data exchange in the Federal health community

- Support S&I Framework by providing Federal use cases and pilots
- Enable FHA partners to move from legacy to new solutions in effective, coordinated manner

Align Federal policies in healthcare data exchange

- Provide a forum of cataloging and aligning Federal policies and practices

FHA Guiding Principles

Stakeholder Engagement

Demonstrate through Pilots

Open Communication and Transparency

Commitment to Action

Focus on Specifications



Comments/Questions?



Stay connected, communicate and collaborate

- Find out more about FHA on the ONC website:
<http://www.healthit.gov/>
- Contact us at: federal.health@hhs.gov
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@CONNECT_Project**



Federal Health Architecture



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