

Annual Conference & Exhibition
 March 1-4, 2010 | Atlanta | Georgia World Congress Center
www.himssconference.org

HIMSS¹⁰
 change is everywhere...opportunity is here

Interoperability Workshop
 Leveraging the ONC/HITSP Roadmap for
 Cost-effective Chronic Care

Workshop leaders:
Elliot Sloane and Paul Schluter

transforming healthcare through IT™

HIMSS¹⁰

What we do & where we work:

Elliot B. Sloane, PhD, CCE, FHIMSS
 President and Founder
Center for Healthcare Information Research and Policy
 Director, Health Systems Engineering Program
Drexel University School of Biomedical Engineering, Science and Health Systems

Paul Schluter, PhD
 Principal Engineer
GE Healthcare – Monitoring Solutions

HIMSS¹⁰

Conflict of Interest Disclosures

Elliot B. Sloane, PhD

Elliot B. Sloane, PhD
 Has no real or apparent
 conflicts of interest to report.

Paul Schluter, PhD
 Is an full time employee of GE
 Healthcare and receives salary and
 owns GE stock. GE Healthcare is a
 member of the Continua Alliance.

HIMSS10

Our “Interoperability” Roles, Responsibilities, and Activities.

Elliot B. Sloane, PhD, CCE, FHIMSS (Blue Bell, PA)
 Board of Directors, ANSI/HITSP
 Board of Directors, Delaware Valley HIMSS Chapter
 Board of Directors, IHE USA
 Co-Chair, IHE International
 HIMSS Annual Conference Education Committee
 Technical Sponsor, ISO/IEEE 11073.x Standards
 Past President, American College of Clinical Engineering (ACCE)

Paul Schluter, PhD (Milwaukee, WI)
 Co-Chair, IHE Patient Care Device Domain
 ANSI/HITSP Remote Monitoring Technical Committee
 ISO/IEEE 11073.x Medical Device Semantic Interoperability Standards Committee
 Continua Alliance - HITSP Remote Monitoring Coordination Committee

HIMSS10

Today’s Learning Objectives:

Explain the way Remote Monitoring specification fits into the larger EMR, EHR, PHR, HIE, and NHIN framework

Describe the ONC Remote Monitoring interoperability specifications

Articulate the basic procurement requirements you need to ensure your multi-vendor chronic care monitoring purchases are "ARRA/HITECH-ready"

HIMSS10

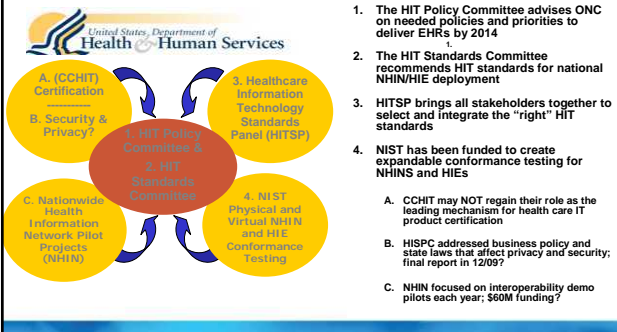
Program

- 1:00pm-1:45pm Overview
- 1:45pm- 3:00 pm Breakout Focus Sessions
 - ARRA and chronic care monitoring devices, priorities & options
 - ONC's HITSP framework for integrating chronic care device data into the EHR
- 3:00pm-3:15pm Break
- 3:15pm-4:30pm Breakout Focus Sessions
 - HITECH's privacy and security impact on chronic care monitoring
 - Understanding and managing life critical chronic care monitoring risks
- 4:30pm-5:00pm Breakout groups brainstorming, and recap
 - Application to purchasing strategies and decisions
- 5:00pm Adjourn

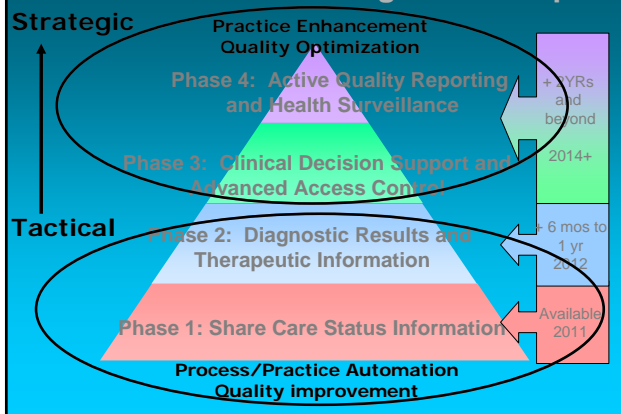
OVERVIEW

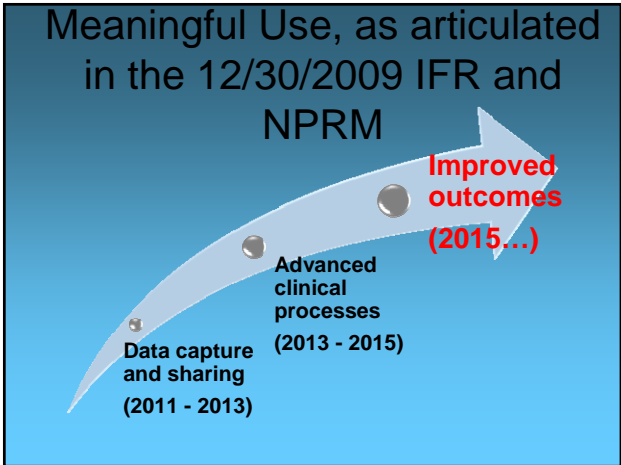
- To understand the roadmap for integrating Medical Device Interoperability for Chronic Care into the national EHR/EMR plan, we need a framework to provide a context for our workshop
 - The Nationwide Information Network Architecture, and its role in ARRA
 - The ANSI Healthcare Information Technology Standards Panel (HITSP), and its place in the HIT Standards world
 - The general HITSP architecture and terminology, and
 - The Remote Monitoring Interoperability Specification and the Common Device Connectivity Technical Note that fits within the HITSP and NHIN framework.

HHS/ONCHIT's 2009 Health IT Strategy rapidly redefined and created the 2010-2013 NHIN



ARRA/HITECH Strategic Roadmap





HIMSS10

The NHIN?

- The Nationwide Healthcare Information Network is a conceptual framework for organizing the nation's health data
- NHIN becomes physical as it is manifested through state, regional, and federal pilot projects
- The following 5 slides were presented by our partner Vish Sankaran, Director of the Federal Health Architecture at the HIMSS co-hosted "IHE Connectathon" that I moderated in Chicago on January 12

Why information exchange ?

Continuity of Care: Wounded Warrior Scenario

Afghanistan

Washington, D.C.

Walter Reed

Durham VA

North Carolina Private sector

North Carolina

Missouri

New Regulations Created by the HITECH Act (summarized by Vish Sankaran)


Meaningful Use Notice of Proposed Rule-Making
Published December 30, 2009



- Proposed phase 1 criteria for Medicare- and Medicaid-participating providers and hospitals to receive incentives for using electronic health records (EHRs) in a meaningful manner
- Now in 60 day comment period

http://www.federalregister.gov/OFRUpload/OFRData/2009-31217_P1.pdf

Interim final regulation for certification criteria and standards
Published December 30, 2009



- An initial set of standards, implementation specifications, and certification criteria for EHRs
- Now in 60 day comment period

http://www.federalregister.gov/OFRUpload/OFRData/2009-31216_P1.pdf



HITSP's role for the NHIN

- The ANSI/Health Information Technology Standards Panel (HITSP) was created by HHS in 2005 to select the BEST health information standards and assemble them into orchestrated "interoperability framework" for the US NHIN and Certification programs to use



Quick HITSP Roadmap

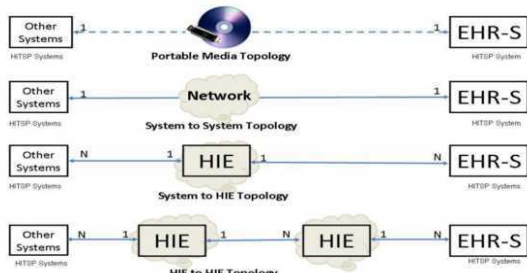
- From Base Standards to ANY EHR or EMR
 - Value Proposition/Use Case
 - Requirement Document (RDS)
 - HITSP Constructs, or building blocks, which are FREE specification documents at HITSP.org (i.e., Transactions, Transaction Packages, Capabilities, and Service Collaborations)
 - HITSP Technical Notes, which are FREE (implementation "builders notes")

All of the HITSP documents are available to the public at no charge.

www.HITSP.org

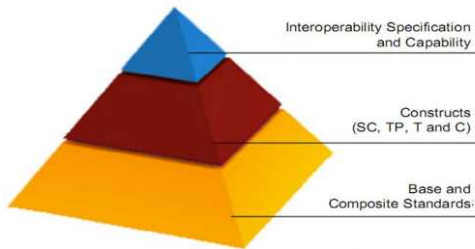
The following slides are excerpted from the HITSP documentation for illustration/education purposes. This use is obviously taken out of context for this workshop, and we strongly recommend that you download and read them in their entirety. The copyright is owned by ANSI, and requires permission for use.

Figure 3-6 Notional Exchange Architecture Topologies



NOTE HITSP Interoperability Specifications apply across business boundaries. An associated business agreement defines the business boundaries of EHRs, other systems and HIEs. HITSP ISs apply to information exchanges indicated by the arrows in the figure.

Figure 3-1 Interoperability Specification Framework



Interoperability Specification (Complete Set)

Figure 3-2 Fundamental Relationships depicts the interrelationships of the requirements and design sections of the IS. Stakeholders' Information Exchange Requirements (IERs) are met with System software Capabilities (CAP).

HIMSS10

December 18, 2008
Version 1.0

HITSP Remote Monitoring Interoperability Specification
HITSP/IS77

January 25, 2010
Version 1.0

HITSP Device Connectivity Technical Note
HITSP/TN905

July 8, 2009
Version 1.0

HITSP Harmonization Framework and Exchange Architecture
Technical Note
HITSP/TN904

HIMSS10

IS 77

Remote Monitoring (RMON) Interoperability Specification
The Remote Monitoring Interoperability Specification addresses the data and information exchange requirements for the transfer of remote monitoring information from a device physically attached to or used by a patient in a location that is remote to the clinician. View the most current version as HTML [here](#).

Figure 1.2-1 Interoperability Specification Document Map

“Map” of where “the world of RMON” lies in the land of HITSP!

All documents are available for FREE, at HITSP.org!

HIMSS10

SO, how did Remote Monitoring and Common Device Connectivity become an NHIN EHR priority?

- Basically, YOU, the American Community, asked for it!
 - These goals were selected as 2008 and 2009 HITSP deliverables by ONC to support chronic care in home and allied health settings and general acute patient care in all settings
- This HITSP Interoperability Specification was supported by the Integrating the Healthcare Enterprise (IHE) Patient Care Device (PCD) Domain, which was first chartered in 2002.
 - IHE PCD is a jointly-sponsored project by the American College of Clinical Engineering (ACCE) and HIMSS.
 - This project was directly and strongly supported by The IEEE Engineering in Medicine and Biology Society’s standards program (www.EMBS.org) where the underlying Medical Device and Personal Health Device standards originate.

Thank You!

- Elliot B. Sloane, PhD, CCE, FHIMSS
 - Drexel University, School of Biomedical Engineering, Science and Health Systems
 - Center for Healthcare Information Research and Policy
 - Board of Directors, ANSI/HITSP
 - Board of Directors, DVHIMSS
 - Co-Chair, IHE-International
 - Board of Directors, IHE USA
 - Sponsor, IEEE 11073 Standards

All questions cheerfully answered... **FREE!**
www.ebsloane.org
ebsloane@drexel.edu, ebsloane@gmail.com

Or just Google™ me!
