



HITSP Technical Committee Orientation Session

Joyce Sensmeier MS, RN-BC, CPHIMS, FHIMSS Vice President, Informatics, HIMSS HITSP Technical Committee Manager



The Panel's Purpose

To harmonize and integrate diverse standards that will meet clinical and business needs for sharing information among organizations and systems.

- Establish HITSP Interoperability Specifications and promote their acceptance;
- Support the deployment and implementation of HITSP Interoperability Specifications across the health care enterprise;
- ☐ Facilitate the efforts of standards developing organizations to maintain, revise or develop new standards as required to support the HITSP Interoperability Specifications.

Harmonized standards promote interoperability, enhance healthcare quality and contain costs



HIT Standardization



HITSP members agreed that a **standard** is a well-defined approach that supports a business process and . . .

- has been agreed upon by a group of experts;
- has been publicly vetted;
- provides rules, guidelines, or characteristics;
- helps to ensure that materials, products, processes and services are fit for their intended purpose;
- is available in an accessible format;
- is subject to an ongoing review and revision process.

Standards Harmonization is required when a proliferation of standards *prevents* progress rather than *enabling* it.



HITSP and Its Stakeholders - Harmonizing and Integrating Standards To Meet Clinical and Business Needs

Patients

Specialists

Review Boards Outpatient

Consumers

Payers

Healthcare **Providers**

Employers

Suppliers

Guidelines

Residential

Care Providers

Practice

Government Agencies

General

Hospitals

Practitioners

























HITSP - volunteer-driven, consensus-based organization funded by the Department of Health and Human Services.





Panel Members – Board of Directors – Technical and Coordination Committees

Standards Developing Organizations (SDOs)	Non-SDOs	Government Bodies	Consumer Groups	Project Team Members (non-voting)	Total
23	313	34	16	12	398
5%	79%	9%	4%	3%	100%

HITSP members are representatives of the broad Healthcare IT community



The HITSP team

The Community
HHS Secretary
Mike Leavitt, Chair

HHS ONCHIT1 PO, Dr. John Loonsk HITSP
Dr. John Halamka,
Chair
Member populated
Technical
Committees

Project Management Team
Executive in Charge, F. Schrotter, ANSI
Program Manager, L. Jones GSI
Deputy PM, J Corley, ATI
Project Manager, Julie Pooley, Booz Allen

Harmonization
Process Definition
Technical Manager
Michelle Deane,
ANSI

Harmonization
Process Delivery
Technical Manager
Joyce Sensmeier,
HIMSS



Federal Agencies <u>must</u> use the Recognized Interoperability Standards that have been harmonized by the Healthcare Information Technology Standards Panel

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3973

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Office of the National Coordinator for Health Information Technology (ONC), DHHS

Notice of Availability: Secretarial Recognition of Certain Healthcare Information Technology Standards Panel (HITSP) Interoperability Specifications as Interoperability Standards for Health Information Technology

HITSP is playing an integral role in the development of a Nationwide Healthcare Information Network (NHIN) for the United States





For Immediate Release
Office of the Press Secretary
August 22, 2006

Executive Order:

Promote Quality and Efficient Health Care in Federal Government Administered or Sponsored Health Care Programs

Sec. 3. Agencies shall perform the following functions:

Health Information Technology -

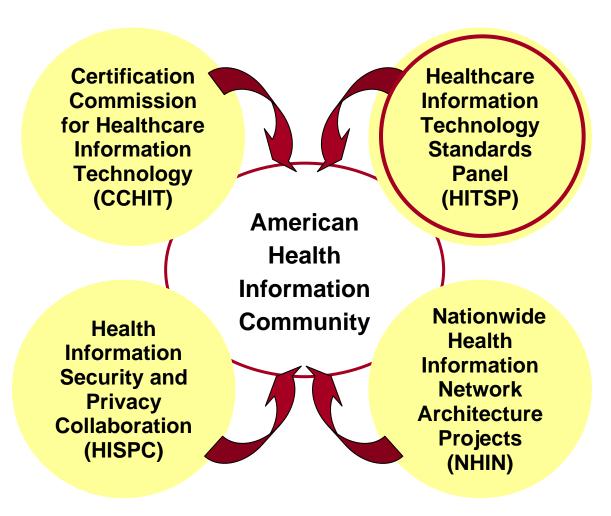
For Federal Agencies. As each agency implements, acquires, or upgrades health information technology systems used for the direct exchange of health information between agencies and with non-Federal entities, it shall utilize, where available, health information technology systems and products that meet recognized interoperability standards.

HITSP-Harmonized standards promote interoperability, enhance healthcare quality and contain costs



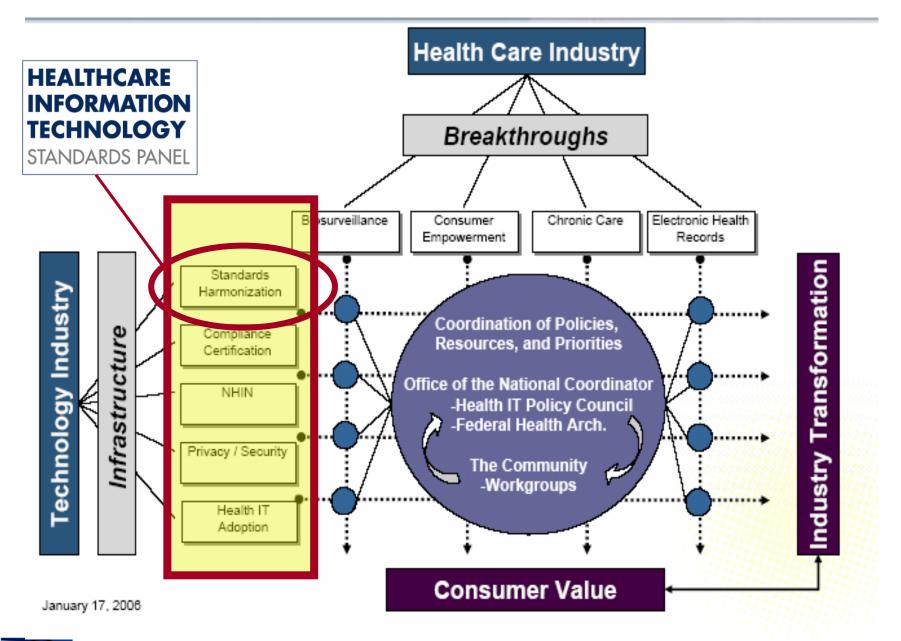
In 2005, HHS Secretary
Michael Leavitt chartered
a public-private "Community"
to serve as the focal point
for America's health
information concerns and
drive opportunities for
increasing interoperability

The Community provides input and recommendations to HHS on how to make health records digital and interoperable, and assure that the privacy and security of those records are protected, in a smooth, marketled way.



Plans are now underway to transition the AHIC to a public-private partnership based in the private sector.







HITSP Standards Harmonization

HEALTHCARE INFORMATION TECHNOLOGY

STANDARDS PANEL

Open
Inclusive
Collaborative
Use Case Driven

www.hitsp.org

- 1. Identify a pool of standards for a general breakthrough area
- Identify gaps and overlaps for specific context
- 3. Make recommendations for resolution of gaps and overlaps
- 4. Develop Interoperability Specifications for using the selected standard(s) for a specific context
- 5. Test the instruction for using the standard



Building a Framework for HIT Solutions



- Interoperability Specifications are intended to be used by architects and system designers as a way to guide future implementation efforts based on health IT
- These specifications represent an ongoing effort to create a framework/template that represents a solution set for solving the known problems related to an AHIC-defined Use Case

HEALTHCARE INFORMATION TECHNOLOGY STANDARDS PANEL





Three Technical Committees
were formed to focus on the
initial set of AHIC breakthrough areas

Technical Committees

Care Delivery

- EHR Lab Reporting
- Emergency ResponderEHR
- Medication Management

Consumer Empowerment

- Consumer Empowerment
- Consumer Access to
 Clinical Information

Population Health

- Biosurveillance
- Quality



Care Delivery Technical Committee

■ EHR – Lab Reporting

Deploy standardized, widely available, secure solutions for accessing laboratory results and interpretations in a patient-centric manner for clinical care by authorized parties.

Emergency Responder – EHR

Covers the use of the ER-EHR from the perspective of on-site care providers and emergency care clinicians. Definitive care clinicians involved in the care and treatment of emergency incident victims, medical examiner/fatality managers investigating cause of death, and public health practitioners using information contained in the ER-EHR, are included because of their interactions with the other portions of this use case.

Medication Management

Focuses on patient medication information exchange, and the sharing of that information between consumers, clinicians (in multiple sites and settings of care), pharmacists, and organizations that provide health insurance and pharmacy benefits.



Consumer Empowerment Technical Committee

Consumer Empowerment

Deploy to targeted populations a pre-populated, consumer-directed and secure electronic registration summary. Deploy a widely available pre-populated medication history linked to the registration summary.

Consumer Access to Clinical Information

Includes three scenarios which describe highlights of the processes, roles and information exchanges which could enable a consumer's access to clinical information via a personal health record (PHR). The three scenarios are: Consumers receive and access clinical information; Consumers create provider lists and establish provider access permissions; and Consumers transfer PHR information.



Population Health Technical Committee

Biosurveillance

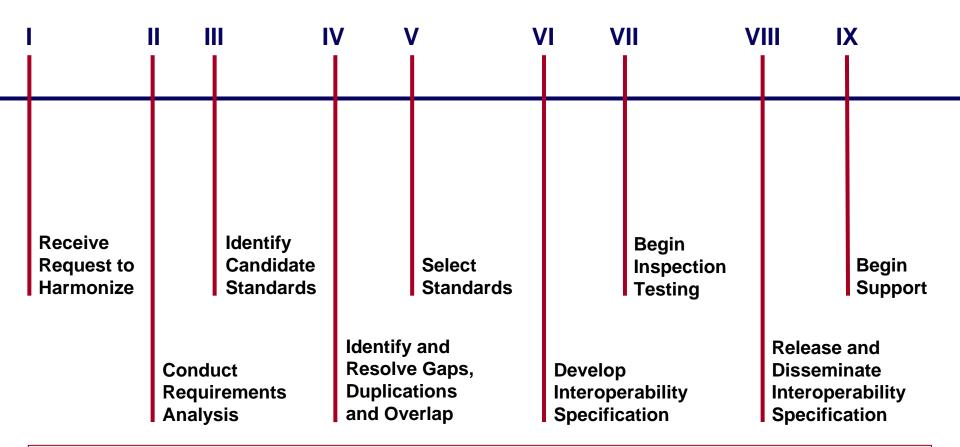
Transmit essential ambulatory care and emergency department visit, utilization, and lab result data from electronically enabled health care delivery and public health systems in standardized and anonymized format to authorized public health agencies with less than one day lag time.

Quality

This use case depicts two scenarios related to quality measurement, feedback and reporting with respect to a patient's encounter with the healthcare delivery system: quality measurement of hospital-based care and of care provided by clinicians.



Steps in the HITSP Harmonization Process





HITSP Program Management

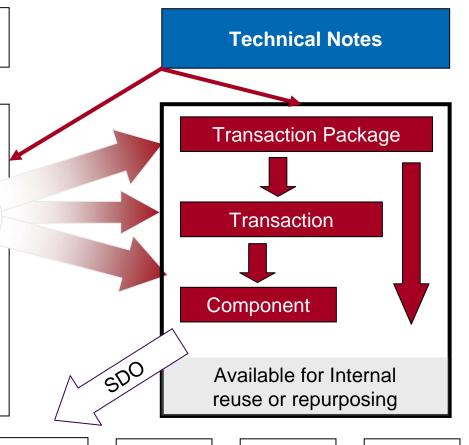
Harmonization Framework

Use Case

Identifies interoperability business needs

Interoperability Specification

- Identifies what HITSP lower-level constructs are used to meet business needs
- Defines Requirements, Context and Constraints for those constructs
- Addresses multi-year roadmap as needed



Composite Standard #1 Base Standard #2 Base Standard #3 Composite Standard #4 Base Standard #5 Base Standard #n Base Standard #n



Definitions and Rules

Level	Definition	Example	Rules
Use Case or Harmonization Request	Defines business/functional requirementsSets Context	ONC EHR- Lab Use Case	
Interoperability Specification	 Models business/ functional/ interoperability requirements Identifies technical/system requirements to meet use-case Identifies how to use one or more HITSP constructs to meet use-case requirements 	HITSP EHR – Lab Interoperability Specification (IS01)	 Based on UML diagram to identify technical actors and actions Sets context Testable functional requirements Ids transactions or transaction packages
Transaction Package	 Defines how two or more transactions are used to support a stand-alone information interchange within a defined context between two or more systems 	 Record Locator Service Entity Identification Service 	 Thin context and interoperability requirements Testable Based on analysis of like technical actors, context and content harmonized across transactions May be fulfilled by one or more transactions or composite standard Expresses constraints on the transactions or composite standard
Transaction	 Logical grouping of actions, including necessary content and context, that must all succeed or fail as a group. 	Query lab resultSend lab result	 Fulfills all actions between two or more systems needed to meet one or more interoperability requirements Testable May be fulfilled by components or composite standard Expresses constraints on components or composite standard

Definitions and Rules (cont.)

Level	Definition	Example	Rules
Component	 An atomic construct used to support an information interchange or to meet an infrastructure requirement (e.g., security, logging/audit) 	Lab result messageLab result context	 Typically will use one "primary" standard and may have other "secondary" standards Expresses constraints on base or composite standards
Base Standard	A standard capable of fulfilling a discrete function within a single category produced and maintained by a single standards organization.	 Messaging standard Security standard Code set. 	Per HITSP definition the term "standard" refers, but is not limited to,: - Specifications - Implementation Guides - Code Sets - Terminologies - Integration Profiles
Composite Standard	 Grouping of coordinated base standards, often from multiple standards organizations, maintained by a single organization. In HITSP, it can serve as a component, transaction or transaction package functional requirements 	 Integration profiles Implementation guides Health transaction services 	Per Definition above

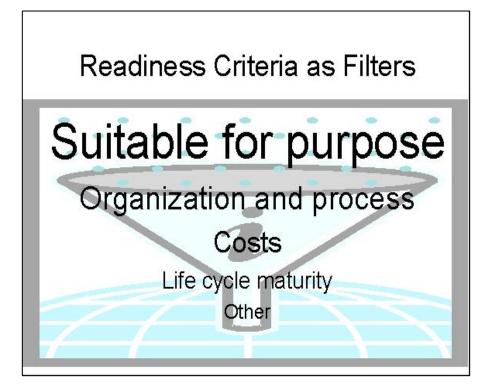
HITSP Definition of a Standard

A standard specifies a well-defined approach that supports a business process and:

- (1) has been agreed upon by a group of experts;
- (2) has been publicly vetted;
- (3) provides rules, guidelines, or characteristics;
- (4) helps to ensure that materials, products, processes, and services are fit for their intended purpose;
- (5) is available in an accessible format; and
- (6) is subject to an ongoing review and revision process.



Standards Readiness Criteria Tier I



- The standards required to support each major Use Case event were organized within an agreed upon standards taxonomy
- The standards selected for inclusion in the pool were examined using 'HITSP approved' Harmonization Readiness Criteria





Standards Readiness Criteria Tier II

Suitability

The standard is named at a proper level of specificity and meets technical and business criteria of use case

Compatibility

The standard shares common context, information exchange structures, content or data elements, security and processes with other HITSP harmonized standards or adopted frameworks as appropriate

Preferred Standards Characteristic

Approved standards, widely used, readily available, technology neutral, supporting uniformity, demonstrating flexibility and international usage are preferred

Standards Development Organization and **Process**

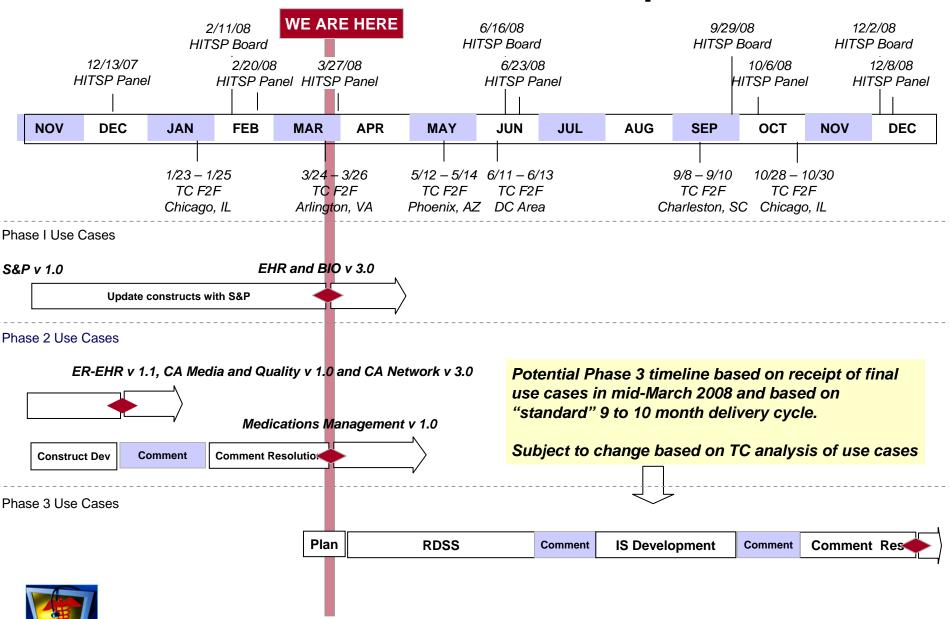
Meet selected criteria including balance, transparency, developer due process, stewardship and others

Total Costs and Ease of Implementation

Deferred to future work



HITSP 2008 Work Plan – IS Development



In order to better conduct its new work, HITSP is implementing a new Technical Committee structure

- ☐ Three (3) Perspective Committees aligned with AHIC perspectives
 - 1. Provider
 - 2. Population
 - 3. Consumer

- Three (3) Domain Committees focused on healthcare domains
 - 1. Care Management and Health Records
 - 2. Security, Privacy and Infrastructure
 - 3. Administrative and Financial



NEW.... HITSP TC Matrix Organization

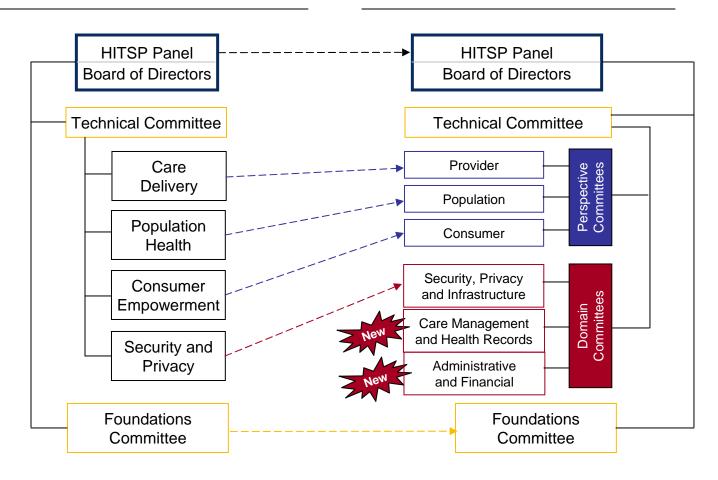
Provider **Population** Consumer Perspective Perspective Perspective Care Management and Health Records Domain Committee Security, Privacy and Infrastructure Domain Committee Administrative and Financial Domain Committee



The Transition Plan

CURRENT TC STRUCTURE

PLANNED TC STRUCTURE









New AHIC Use Cases (2008)

Provider

Consultations and Transfers of Care

Personalized

Healthcare

Consumer

Remote Monitoring

Patient – Provider Secure Messaging

Population

Immunizations and Response Management

Public Health Case Reporting



Perspective Technical Committees Leadership

- Provider TC Co-chairs
 - Allen Hobbs, PhD, Kaiser Permanente, Allen.Hobbs@kp.org
 - Steve Hufnagel, DoD/Medical Health System (MHS), <u>SHufnagel@tiag.net</u>
 - Steve Wagner, Department of Veterans Affairs,
 Steve.Wagner@va.gov
- Consumer TC Co-chairs
 - -Mureen Allen, MD, FACP, ActiveHealth Management mallen@activehealth.net
 - Charles Parisot, EHR Vendor Association, <u>charles.parisot@med.ge.com</u>
 - Scott Robertson, PharmD, Kaiser Permanente,
 scott.m.robertson@kp.org



Perspective Technical Committees Leadership

- Population TC Co-chairs
 - -Floyd Eisenberg, MD, MPH, Siemens Medical Solutions, Floyd.Eisenberg@siemens.com
 - Peter Elkin, MD, Mayo Clinic College of Medicine,
 Elkin.Peter@mayo.edu
 - Steve Steindel, PhD, Centers for Disease Control & Prevention, sns6@cdc.gov



Domain Technical Committees Leadership

- Security and Privacy Domain TC Co-chairs
 - -Glen Marshall, Siemens Medical Solutions, glen.f.marshall@siemens.com
 - -John Moehrke, GE Healthcare, John.Moehrke@med.ge.com
 - Walter Suarez, MD, Institute for HIPAA/HIT Education and Research, <u>walter.suarez@sga.us.com</u>
- Administrative and Financial Domain TC Convener
 - Don Bechtel, Siemens Medical Solutions, donald.bechtel@siemens.com
- □ Care Management and Health Records Domain TC Convener
 - -Keith Boone, GE Healthcare, keith.boone@ge.com



HITSP Project Team Facilitators and Technical Writers

- Provider Perspective Technical Committee
 - Suzi Hines, Principal, Sage Consulting, LLC, <u>sfhines@bellsouth.net</u>
 - Michael Glickman, Computer Network Architects, Inc., mglickman@CNAInc.com
 - Carl F. Husa, Jr., MA, Patriot Technology, jabberwockycarl@gmail.com
- Consumer Perspective Technical Committee
 - John Donnelly, IntePro Solutions, Inc., <u>itdonnelly@intepro.biz</u>
 - Mike Nusbaum, M.H. Nusbaum & Associates Ltd., michael@mhnusbaum.com
- Population Perspective Technical Committee
 - Lori Reed-Fourquet, e-HealthSign LLC, Lori.fourquet@sbcglobal.net
 - Fran Corley, Sage Consulting, <u>corleyfg@bellsouth.net</u>



TC Project Team Facilitators & Technical Writers

- Security and Privacy Domain Technical Committee
 - Johnathan Coleman CISM, CISSP, Security Risk Solutions, Inc., ic@securityrisksolutions.com
 - Sarah Quaynor, ANSI, <u>sarah.quaynor@GSIHEALTH.COM</u>
- Administrative and Financial Domain Technical Committee
 - Theresa Wisdom, HIMSS, twisdom@himss.org
 - Jack Corley, ATI, <u>corley@aticorp.org</u>
- Care Management and Health Records Domain Technical Committee
 - Gene Ginther, Stellar Systems, ginther@stellarsystems.com
 - Don Van Syckle, DVS Consulting, don@dvsconsult.com



HITSP Coordinating Committees and Leadership

- Foundations Committee
 - Steve Wagner
 - Bob Dolin
- HITSP Process Review Committee
 - Lynne Gilbertson
 - Erik Pupo
- HITSP-CCHIT Joint WorkGroup
 - Jamie Ferguson,
 - CCHIT Orientation Material

- Harmonization Readiness Committee
 - Lynne Gilbertson
- Business Plan Committee
 - Steve Lieber
- International Landscape Committee
 - Bill Braithwaite
- Governance Committee
 - Michael Aisenberg
- Internal Review Board (IRB)
 - Erik Pupo
 - Charles Parisot



Perspective Technical Committees

Terms of Reference

- Review each new Use Case or Interoperability Request, provide feedback to requestor, evaluate scope of effort and develop statements of work for completion
- Perform high level design of Interoperability Specifications and lower level constructs including requirements analysis, standards selection and minimum data set identification
- □ Submit recommendations to Panel for review, approval and resolution
- Identify Domain Committee(s) and provide high level design and statements of work to guide construct development
- Develop, review and evaluate Interoperability Specifications for the selected standards, integrating relevant constructs
- ☐ Manage overall execution plan/schedule in collaboration with Domain Committees
- Ensure timely response and disposition of public comments
- Ensure on-going process for addressing corrections/change requests and resolutions



Domain Technical Committees

Terms of Reference

- Identify and analyze gaps and duplications within the standards industry as they relate to domain constructs
 - Describe gaps, including missing or incomplete standards
 - Describe duplications, overlaps, or competition among standards
- List all standards that satisfy requirements imposed by the relevant Use Case or Interoperability Request and apply readiness criteria
- Interact with HITSP Secretariat for coordination with Standards Organization regarding standards gaps, overlaps, and identification of standards
- Evaluate, select and constrain recommended standards
- Receive and prioritize statements of work and collaborate with Perspective Committees to refine scope and develop work plan
- Develop and/or revise domain constructs to meet requirements, high level design and statements of work
- Maximize reuse with consideration for backwards compatibility
- Ensure domain constructs adequately support all Interoperability Specifications referencing those constructs
- Work in collaboration with Perspective Committees to meet project schedule and timelines





Joint Working Group



Healthcare Information Technology Standards Panel (HITSP) and the

Certification Commission on Healthcare Information Technology (CCHIT)



Between the federal implications and the certification efforts of <u>CCHIT</u>, stakeholders will be motivated to adopt a standard way of sharing data throughout the Nationwide Health Information Network, leading to better healthcare for us all.



Trial Implementations

HITSP will work closely with these contractors during implementation.



HHS has awarded \$22.5 million in contracts to nine HIEs to begin trial implementations of the NHIN

CareSpark

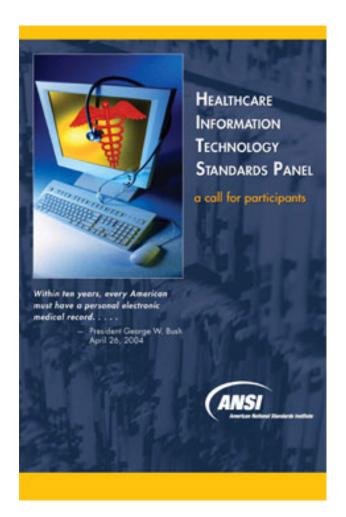
Tri-Cities region of Eastern Tennessee and Southwestern Virginia

- Delaware Health Information Network
 Delaware
- Indiana University
 Indianapolis Metroplex
- Long Beach Network for Health
 Long Beach and Los Angeles, California
- Lovelace Clinic Foundation
 New Mexico

- MedVirginia
 Central Virginia
- New York eHealth Collaborative
 New York
- North Carolina Healthcare Information and Communications Alliance, Inc.
 North Carolina
- West Virginia Health Information Network West Virginia
- Federal Health Consortium
 Federal health agencies

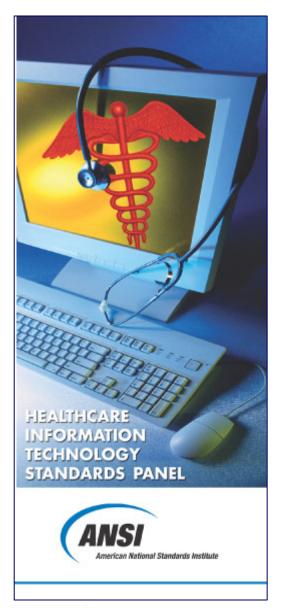


HITSP Information Resources



- Also available on <u>www.hitsp.org</u>
 - News, organizational details and information on upcoming meetings
 - HITSP Public Document Library
 - Interoperability Specifications (ISs)
 and Executive Summaries
 - Use Cases





Join HITSP in developing a safe and secure health information network for the United States.

Learn more at <u>www.hitsp.org</u> or contact . . .

Michelle Deane, ANSI mmaasdeane@ansi.org

Re: HITSP, its Board and Coordinating Committees

Jessica Kant, HIMSS jkant@himss.org

Theresa Wisdom, HIMSS twisdom@himss.org

Re: HITSP Technical Committees







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