

# **HITSP Project**

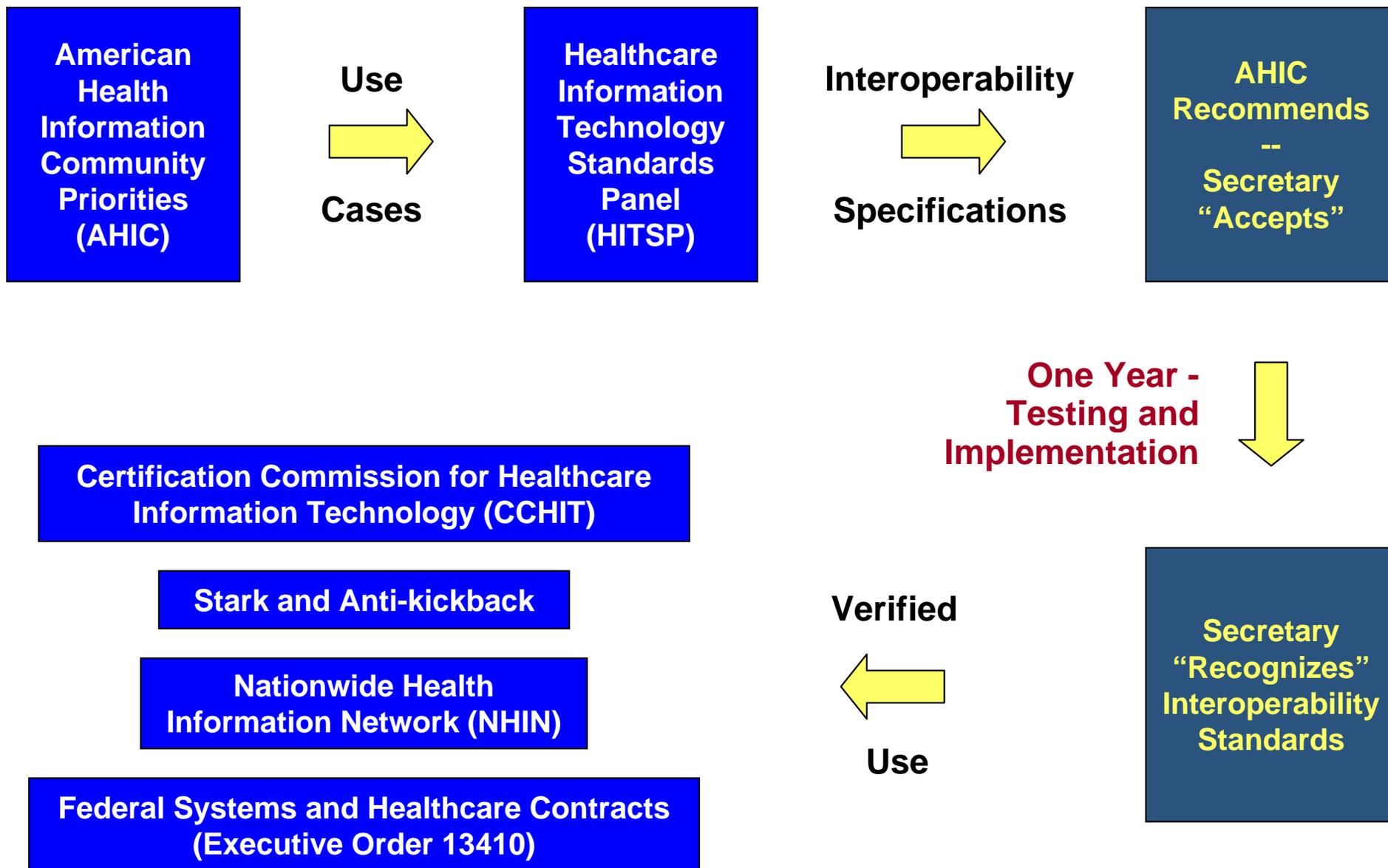
## **Report to NCVHS**

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**January 30, 2008**

# Standards in the National HIT Agenda

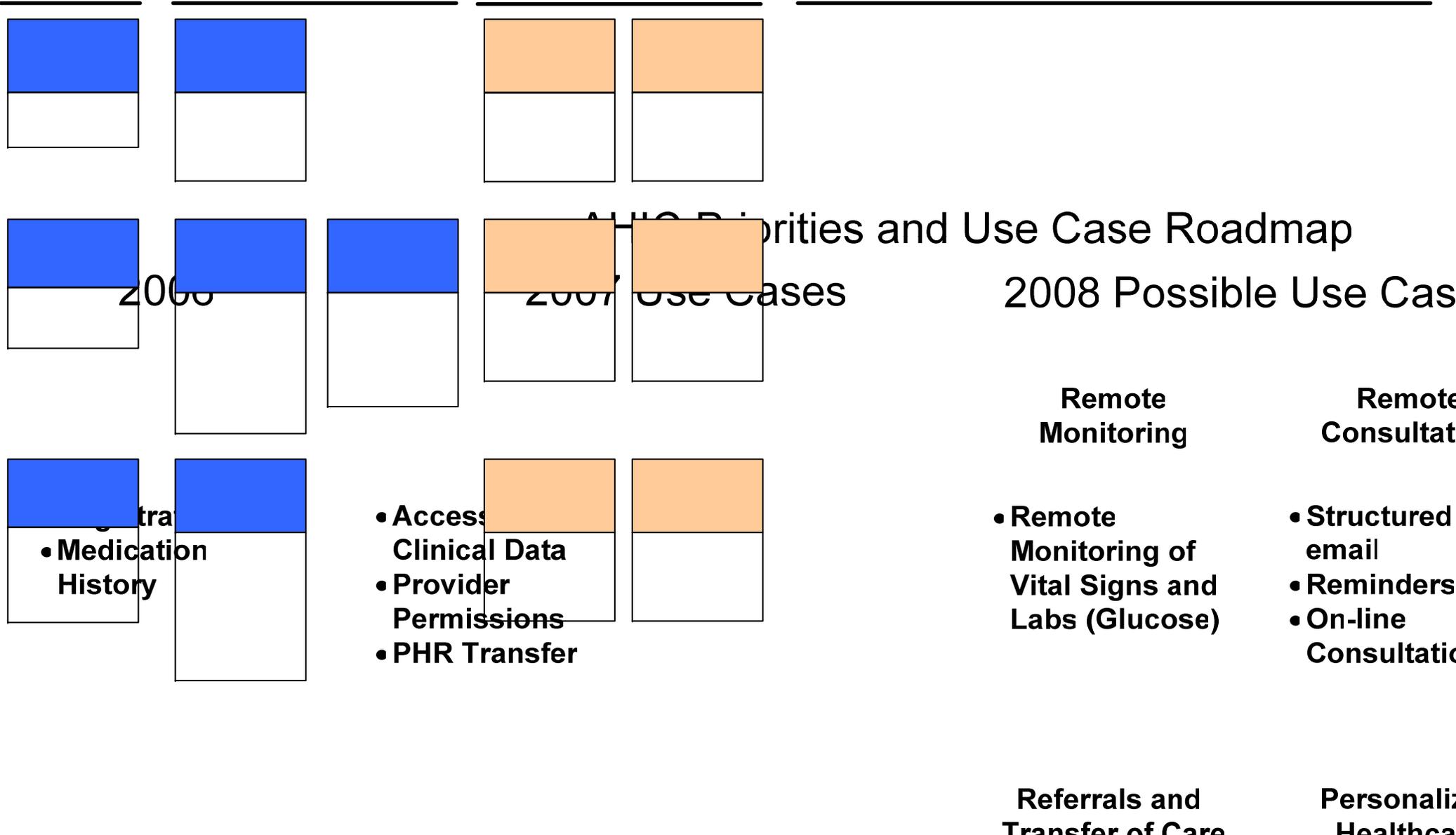


# Standards in the National HIT Agenda

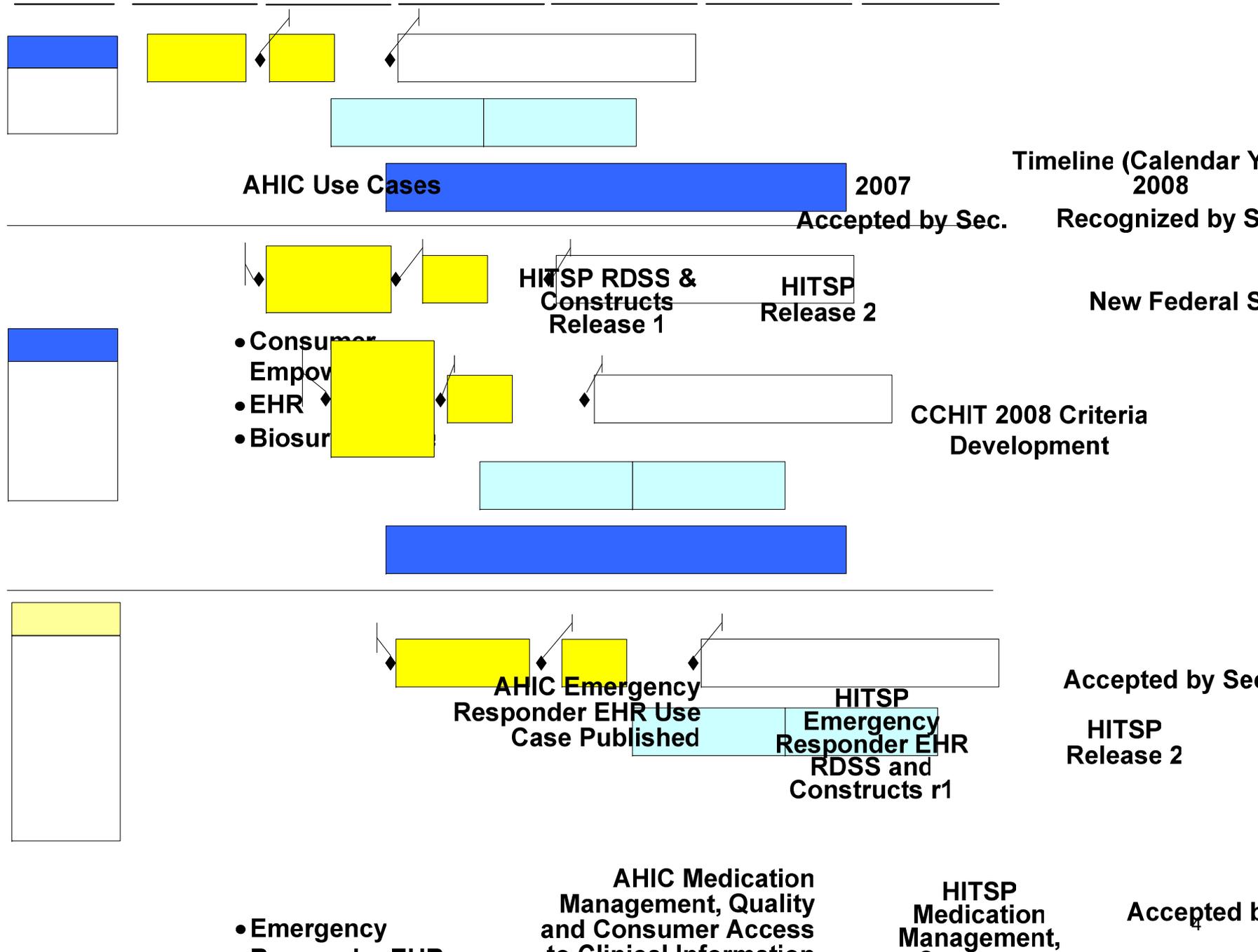
- ▶ Round #1
  - Interoperability standards recognized by Secretary – January 2008
  - Exceptions: lab message guide and HAVE standard, plan to recognize in June, 2008
  
- ▶ Round #2
  - Security and privacy, three use cases – presented January 22 to AHIC recommendation to Secretary
  - Exception: Medication management use case standards to be available in March, 2008
  
- ▶ Round #3
  - Six draft use cases out for second round of public comment



# AHIC Priorities and Use Case Roadmap



# Overall Timeline



# Interoperability Standards

- ▶ Many “named standards” suggested
  - Round #1 – over 700
  - Round #2 – over 200
- ▶ HITSP harmonizes to minimum necessary “named standards”
  - Round #1: 30 targeted, 2 outstanding
  - Round #2: 20 initial with some overlap with round #1
- ▶ HITSP identifies “constructs” to specify “named standards” transactions and use as well as composite standards in implementation guidance
- ▶ Interoperability standards (named standards and constructs) are accepted, implementation tested, and then recognized



# HITSP Interoperability Specification 2007 Overview

- ▶ In 2007 HITSP developed Security & Privacy constructs
  - TN900 (v1.1) – Security and Privacy Technical Note
  - This Technical Note and the associated constructs were approved by the Panel in October 2007
- ▶ In 2007 HITSP also completed 3 new Interoperability Specifications and updated the existing IS03
  - IS04 (v1.1) - Emergency Responder Electronic Health Record
  - IS03 (v3.0) - Consumer Empowerment and Access to Clinical Information via Networks
  - IS05 (v1.0) - Consumer Empowerment and Access to Clinical Information via Media
  - IS06 (v1.0) - Quality
  - These Interoperability Specifications were approved by the Panel in December 2007



# HITSP Interoperability Specification 2007

## Overview

- ▶ These Interoperability Specifications include a suite of documents (including Transactions, Transaction Packages, and Components) that define selected standards and provide implementation level guidance to satisfy the requirements imposed by a given Use Case
- ▶ It is important to understand that the selected standards are defined within the context of the specific Use Case requirements and do not necessarily reflect selection in other contexts
- ▶ As used by HITSP, the term “standard” refers, but is not limited to Specifications, Implementation Guides, Code Sets, Terminologies, and Integration Profiles



# TN900 – Security and Privacy Technical Note

- ▶ Scope of work provides implementation guidance to address Security and Privacy Use Case requirements
  - Collect and Communicate Security Audit Trail
  - Consistent Time
  - Secured Communication Channel
  - Entity Identity Assertion
  - Access Control
  - Non-repudiation of Origin
  - Manage Consent Directives
  - Manage Sharing of Documents
  
- ▶ Provides an initial standards infrastructure that can be used to support different methodologies and approaches that are currently employed in different states
  
- ▶ Will continue to be reused for future Use Cases



# TN900 – Security and Privacy Technical Note

## ▶ Harmonization Results

- Originally 249 standards (including reference documents/guidelines) identified as candidates to meet the security requirements from the EHR-Lab, Consumer Empowerment and Biosurveillance 2006 Use Cases.
- Final selection:
  - ✦ 8 Composite Standards
  - ✦ 20 Base Standards
  - ✦ Includes some standards previously selected and incorporated into the 2006 Interoperability Specifications
- The HITSP Security and Privacy constructs are currently integrated into all of the 2007 Interoperability Specifications



# HITSP IS04 Emergency Responder Electronic Health Record (ER-EHR)

- ▶ Scope of work is the deployment of standardized, widely available and secure solutions for accessing and exchanging current and historical patient-specific health information in both small and large scale incidents
  
- ▶ Harmonization Results
  - Defines and enables the use of multiple documents throughout the patient encounter in the Emergency Department (ED)
  - Standardization must support three heretofore separate affinity domains connected through the ED space. Standards selected:
    - ✦ ED Encounter Summary using IHE EDES
    - ✦ Patient summaries using CCD
    - ✦ Encounter Summary Document using IHE XDS-MS
    - ✦ ED Triage Note using IHE XDS-MS
    - ✦ ED Nursing Note using IHE XDS-MS
    - ✦ ED Physician Note using IHE XDS-MS
    - ✦ Data exchange using HL7



# HITSP IS04 Emergency Responder Electronic Health Record (ER-EHR)

## ▶ Harmonization Results – Summary Document

- Worked across the HITSP Technical Committees to develop an expanded Summary Document (HITSP\C32) with new additional content modules from the base standard (CCD)
  - Medication History
  - Allergies
  - Encounters
  - Problems and Conditions
  - Immunizations
  - Key Laboratory Test Results
- Removed most content module requirements so that the Interoperability Specification may specify optionality
- This promotes reuse of the Summary Document across current and future Interoperability Specifications



# IS03 (updated) - Consumer Empowerment

- ▶ Scope of work is the support of consumer interactions with healthcare systems via networks
  - Consumer establishes an account to host a patient registration summary & clinical information (including medication history, allergies, encounters, problems & conditions, immunizations, and discrete lab results)
  - Consumer provides registration summary and self-entered/externally sourced clinical information during visit with Healthcare Providers
  - Support is provided for authorized Healthcare Provider review of a patient's clinical information
  - Support is provided for electronic distribution of clinical information and lab results by Healthcare Provider to patient



# IS03 (updated) - Consumer Empowerment

- ▶ Key Requirements/Functionality Enabled by the IS
  - Reconciling identifiers for the same consumer/patient and querying other organizations for data for that individual
  - Accessing, viewing, and sharing registration summaries and clinical information
  
- ▶ Harmonization Results
  - Utilization of singular medical summary content (HL7 CCD) and support for uniform patient registration information (CAQH CORE)
  - Equivalent lab result content as deployed for other clinical scenarios (Care Delivery, Biosurveillance, etc)
  - Uniform clinical content for both network and media-based exchange
  - Security and privacy (S&P) requirements satisfied by HITSP S&P constructs and uniformly applied across clinical scenarios



# IS05 - Consumer Empowerment

- ▶ Scope of work and harmonization results is essentially the same as the updated IS03, except...
  - IS05 introduces the use of portable media (CD-R or USB key) as the exchange mechanism. These are widespread, highly interoperable file systems
  - Patient identification reconciliation and most Security and Privacy requirements accomplished via human-to-human interaction
- ▶ Both the 2006 Consumer Empowerment Use Case and the 2007 Consumer Access Use Case are supported by the updated IS03 and the new IS05 – but distinguished by mode of exchange



# IS06 - Quality

- ▶ Scope of work enables interoperable, electronic quality (eQuality) monitoring by providing implementers with a set of standards and workflows
  - Supports both electronic (automated) and manual data collection processes
  - Supports the initial set of quality measures selected by the Health Information Technology Expert Panel (HITEP)
  - Introduces patient-level quality measures in both messaging and document formats
- ▶ Harmonization Results
  - Data capture standards (IHE Retrieve Form For Data Capture, IHE Query for Existing Data (QED), IHE XDS)
  - Message-based and document-based approaches
  - Communications options (Traditional HL7, Media IHE XDM, Reliable Messaging IHE XDR)



# IS06 - Quality

- ▶ Harmonization Results (continued)
  - Aligned with new IHE Quality TC, leveraging approaches defined in 2007
  - Anticipate leveraging ongoing work in HL7 and IHE Quality
  - Need for structured measures to be defined using the selected vocabularies
  - Need to be able to express logic of the measure
  - Need for on-going alignment of NQF Expert Panel timelines with IS requirements specification timeline



# AHIC Update – January 22, 2008

- ▶ HITSP requested that the AHIC recommend this work to the HHS Secretary for his acceptance / recognition
  - TN900 (v1.1) – Security and Privacy Technical Note
  - IS04 (v1.1) - Emergency Responder Electronic Health Record
  - IS03 (v3.0) - Consumer Empowerment and Access to Clinical Information via Networks
  - IS05 (v1.0) - Consumer Empowerment and Access to Clinical Information via Media
  - IS06 (v1.0) – Quality
  
- ▶ AHIC unanimously recommended that the Interoperability Specifications be accepted by the HHS Secretary

