The National Drive Toward Interoperability: How A “Recognized Certification Body” Uses Harmonized Health IT Standards

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Today’s Topics

• Mission and Goals
• Milestones
• Process for Development
• Acceptance of Certification
<table>
<thead>
<tr>
<th>Mission:</th>
<th>Goals:</th>
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</table>
| Accelerate the adoption of robust, interoperable health IT by creating an efficient, credible certification process. | • Reduce the risks of investing in health IT  
• Facilitate interoperability of health IT  
• Enhance availability of adoption incentives and regulatory relief  
• Protect the privacy of health information |
Strategic Role of Certification in the National Health IT Initiative

CCHIT: Certifying Standards Compliance of Health IT

- Standards Harmonization HITSP
- NHIN Prototype & Implementation Projects
- Privacy & Security Policies, Laws, Regulations

Governance and Consensus Process Engaging Public and Private Sector Stakeholders

Strategic Direction + Breakthrough Use Cases

Certification is a voluntary, market-based mechanism to accelerate the adoption of standards and interoperability

Office of the National Coordinator

American Health Information Community and AHIC Workgroups

Accelerated adoption of robust, interoperable, privacy-enhancing health IT

Certification of EHRs and HIEs

Harmonized Standards

Network Architecture

Privacy Policies
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept 2004</td>
<td>Founded by AHIMA, HIMSS, and NAHIT</td>
</tr>
<tr>
<td>Oct 2005</td>
<td>Awarded 3-year $7.5M HHS/ONC contract</td>
</tr>
<tr>
<td>May 2006</td>
<td>Ambulatory EHR certification launched</td>
</tr>
<tr>
<td>Oct 2006</td>
<td>Designated by HHS as a “Recognized Certification Body”</td>
</tr>
<tr>
<td>Jan 2007</td>
<td>Becomes independent, nonprofit organization</td>
</tr>
<tr>
<td>Aug 2007</td>
<td>Inpatient EHR certification launched</td>
</tr>
<tr>
<td>July/Aug 2008</td>
<td>Expansion programs launched: Child Health, Cardiovascular Medicine, Emergency Dept, Enterprise</td>
</tr>
</tbody>
</table>
How Are Certification Criteria Developed?
Foundations of Credibility

• Multi-stakeholder governance
• Openness and transparency
• Consensus-based decision processes
• Broad and diverse volunteer participation
• Multiple public input opportunities
• Stakeholder outreach and engagement

CCHIT’s most important asset is the trust of its stakeholders
Overview: Criteria Development Process

Inputs:
* Scope Guidance from Commission
* Roadmap (from previous year)
* Future Directions (from previous year)
* Environmental Scan:
  - Use Cases from AHIC
  - Standards from HITSP, SDOs
  - Market research
  - More

Overview:

A consensus-based process with broad support from health care stakeholders
<table>
<thead>
<tr>
<th>Criteria</th>
<th>CCHIT Number</th>
<th>CCHIT Name</th>
<th>Certification Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 Ambulatory Certification</td>
<td>IO-AM 09.13</td>
<td>Medication/ePrescribing</td>
<td>The system shall provide the ability to send a query to verify prescription drug insurance eligibility and apply response to formulary and benefit files to determine coverage.</td>
</tr>
<tr>
<td>Criteria</td>
<td></td>
<td></td>
<td><em>X12 270/271/CAQH/CORE Phase I Rules</em></td>
</tr>
<tr>
<td>08 Inpatient Certification</td>
<td>IO-AM 15.01</td>
<td>Administrative and Financial Data</td>
<td>The system shall provide the ability to query and receive electronic medical insurance eligibility information. (Interoperability Work Group will reconcile with 08 IO-AM 09.13 for 09)</td>
</tr>
<tr>
<td>Criteria</td>
<td></td>
<td></td>
<td><em>X12 270/271/CAQH/CORE Phase I Rules</em></td>
</tr>
<tr>
<td>08 Inpatient Certification</td>
<td>IO-IP 04.07</td>
<td>Discharge from Inpatient Care Setting or Transfer to other Facility – Medications and Allergies</td>
<td>The system shall provide the ability to send a query to verify prescription drug insurance eligibility and apply response to formulary and benefit files to determine coverage.</td>
</tr>
<tr>
<td>Criteria</td>
<td></td>
<td></td>
<td><em>X12 270/271/CAQH/CORE Phase I Rules</em></td>
</tr>
</tbody>
</table>
Where to Find Materials

Go to www.cchit.org

CCHIT Certified® 08 materials

The final materials for CCHIT Certified 08 Ambulatory EHR and its optional certifications, Inpatient EHR, Emergency Department EHR, and Enterprise EHR are now available for download. Organizations interested in submitting products for CCHIT Certified status should review these materials in preparation for the opening of the next certification period. Applications for CCHIT Certified Ambulatory EHR 08 are being accepted until July 14, 2008. Inpatient, Emergency Department, and Enterprise open on August 1, 2008.

Most requested links

- Prepare for Ambulatory certification
- Prepare for Inpatient certification
- Prepare for Emergency Department certification
- How to apply
- CCHIT Certified Ambulatory EHR 2007
How Inspection and Certification Work
Features of Inspection Process

• Rigorous, objective, and consistent testing
• 100% compliance required
• “Open book” model – all criteria and test scripts are published in advance for all vendors to use in preparation
• Panel of well-trained expert jurors free of financial conflicts
• Cost-efficient – uses web-conferencing and other virtual presence tools to avoid travel expense
• Robust retesting and appeal processes
## Product Attributes and Inspection Methods

<table>
<thead>
<tr>
<th></th>
<th>Functionality</th>
<th>Security and Privacy</th>
<th>Interoperability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Self-attestation</strong> (documentation review)</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Jury-observed demonstration</strong></td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td><strong>Technical testing</strong></td>
<td></td>
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</tbody>
</table>

= Current methods

= Future direction
Juror-Observed Virtual Demonstration

Vendor personnel follow Test Script to demonstrate system at the vendor facility

Web conferencing and concurrent audio conferencing

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Interoperability Testing: Project LAIKA

- An Open Source Health IT Interoperability Testing Framework
- Collaborative effort launched by CCHIT and the MITRE Corporation in 2007
- Collaboration partners include NIST, IHE, and others
- LAIKA is a platform designed for expansion
  - Currently can test standards-compliance of sending and receiving patient summary (CCD / C32)
  - Additional testing to be added: laboratory reporting, message transport mechanisms, more
Results and Impact of Certification to Date
Provider Acceptance

Professional society endorsements:
- AAFP
- AAP
- ACP
- ACC
- ACEP
- AMA
- MGMA
- Physician’s Foundations

Impact surveys:
- 72% of physicians believe published certification standards have an impact on EHR adoption\(^1\)
- 64% of CIOs are aware of certification; 55% of them plan to require it in their purchase decisions\(^2\)

\(^1\) MGH Institute for Health Policy, George Washington University and RTI, A National Survey of Health Record Keeping among Physicians & Group Practices in the United States, preliminary data report to AHIC, Jan 2008

\(^2\) Survey conducted by HIMSS Analytics, March 2008
Vendor Acceptance

- **Ambulatory**
  - 136 ambulatory products from 93 vendors since 06
  - Represents nearly 50% of estimated vendors in the market
  - Represents an estimated 75% of installed products

- **Inpatient**
  - 14 inpatient products from 11 vendors since 07
  - Represents 58% of estimated vendors in the market

- **Effect on product availability and competition**
  - Surveys show smaller offices and hospitals have choice
  - Certification has created a level playing field for a wide diversity of EHR developers, small and large, to compete
Certification Enables Health IT Adoption Initiatives

### Public Sector:

- **CMS EHR demo project**
  - 2400 physician practices
  - $150M in bonus payments
- **State eHealth initiatives**
  - EHR adoption incentives linked to CCHIT certification
- **Stark/AKA safe harbor for donation of certified EHRs**
  - Rollouts of hospital-donated EHRs for physicians announced

### Private Sector:

- **EHR adoption incentives announced by several health plans**
  - 9% of payers now offer EHR adoption incentives
- **Physician liability insurance**
  - 4 out of 22 insurers responding to PIAA survey offer premium discount for implementation of EHRs

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1. The eValue8 Cornerstone Report, National Business Coalition on Health, October 2007
Roadmap for the Future
# Expanding the Domains of Certification

<table>
<thead>
<tr>
<th>Domain</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
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</thead>
<tbody>
<tr>
<td><strong>Original 3-year HHS Contract</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Ambulatory EHR</td>
<td>Launched</td>
<td></td>
<td>Update</td>
<td></td>
<td></td>
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<tr>
<td>Inpatient EHR</td>
<td></td>
<td>Launched</td>
<td>Update</td>
<td></td>
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<tr>
<td>Network/HIE</td>
<td></td>
<td></td>
<td>Launch in Oct</td>
<td>Roll-out</td>
<td></td>
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<tr>
<td><strong>Expansion to Populations</strong></td>
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<td></td>
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<tr>
<td>Child Health</td>
<td></td>
<td>Began dev</td>
<td>Launch</td>
<td>Update</td>
<td></td>
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<tr>
<td>Behavioral Health</td>
<td></td>
<td></td>
<td>Begin dev</td>
<td>Launch planned</td>
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<tr>
<td><strong>Expansion to Additional Care Settings</strong></td>
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<tr>
<td>Emergency Dept</td>
<td></td>
<td>Began dev</td>
<td>Launch</td>
<td>Update</td>
<td></td>
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<tr>
<td>PHRs</td>
<td></td>
<td></td>
<td>Begin dev.</td>
<td>Launch planned</td>
<td></td>
</tr>
<tr>
<td>Long Term Care</td>
<td></td>
<td></td>
<td>Begin research</td>
<td>Begin dev</td>
<td>Launch TBD</td>
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<tr>
<td><strong>Expansion to Professional Specialties</strong></td>
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<tr>
<td>Cardiovascular</td>
<td></td>
<td>Began dev</td>
<td>Launch</td>
<td>Update</td>
<td></td>
</tr>
<tr>
<td>Other Specialties</td>
<td></td>
<td></td>
<td>Begin research</td>
<td>Dev TBD</td>
<td>Launches TBD</td>
</tr>
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Summing Up
Summary

• An independent nonprofit organization with a mission to accelerate adoption of robust, interoperable health IT

• Consensus-based process has attracted strong volunteer commitment, stakeholder engagement, and earned industry credibility

• Positive results – real-world impacts on EHR adoption, and on track for self-sustainability

• Future vision: continued growth and expansion

For more information, go to: www.cchit.org