

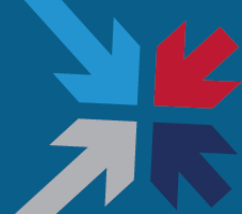


NHIN Direct Project Implementation Group Meeting

August 31, 2010



Agenda





» Reminders

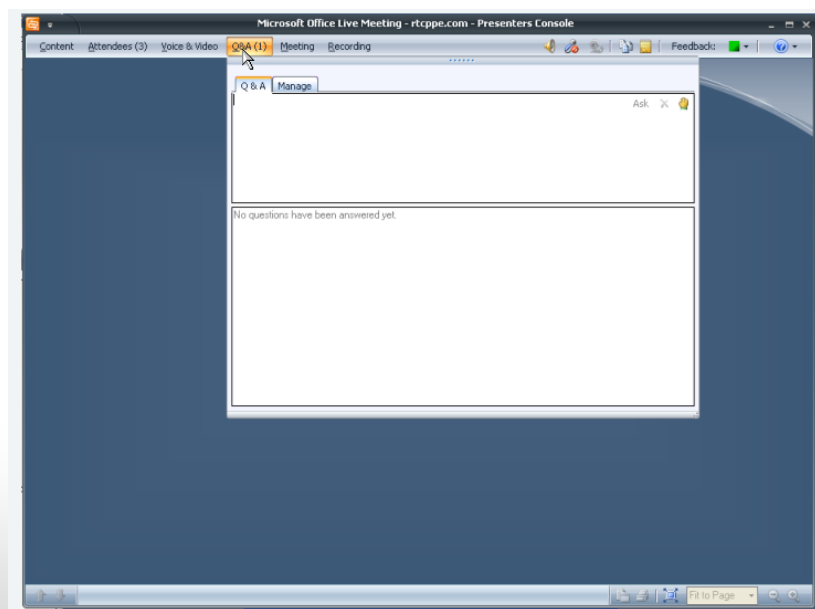
» Workgroup Updates

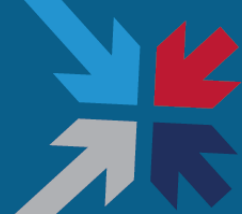
» Calendar & Participation

Review of Participation



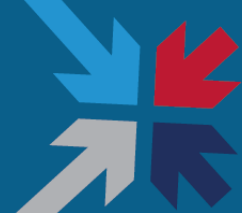
- » Use the Q&A text box function in the web conference to ask a question, or to signal an intent to speak
- » **To type a question**, please type questions into the Q&A text box and click 
- » **To vocalize a question**, please use the “raise your hand” function found in the upper right hand corner: 



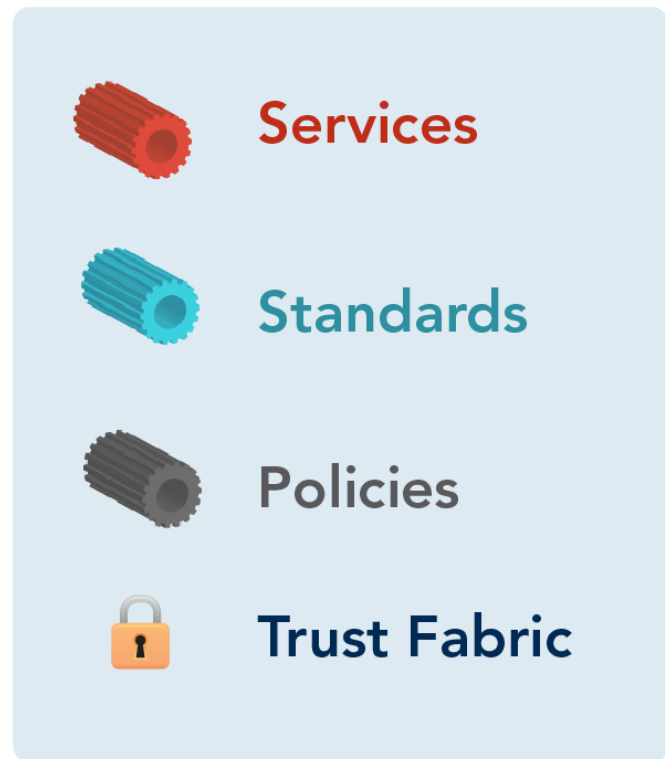


Reminders

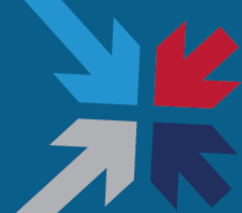
What is the NHIN Direct Project?



A project to create the set of **standards** and **services** that with a **policy** framework enable simple, directed, routed, scalable transport over the Internet to be used for secure and meaningful exchange between known participants in support of meaningful use

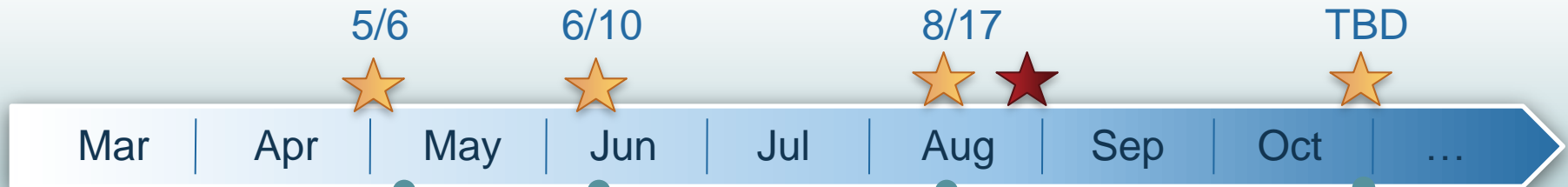
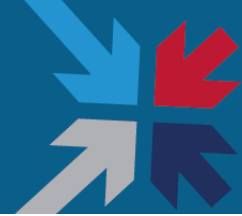


Review of Workgroups



- » **Security & Trust WG:** Provide alternatives and highlight issues relating to security and trust enablement via technology (e.g., certificates and signatures)
- » **Implementation Geographies WG:** Provide a powerful demonstration of cross-state, cross organizational continuity of care
- » **Reference Implementation WG:** Create a solid open-source reference implementation and associated libraries implementing the NHIN Direct specifications.
- » **Documentation and Testing WG:** Create effective documentation and testing guidance for implementers including: Specification documentation, Implementation guides, and Conformance testing guides.
 - In addition, the Documentation and Testing Workgroup will create overviews for general consumption and work with the [Reference Implementation Workgroup](#) to create a testing service corresponding to the conformance testing guides.
- » **Communications WG:** The goal of the Communication workgroup is to provide clarity about what NHIN Direct is and how it fits into the health information and transformation ecosystem.
 - Key audiences include State HIEs, RECs, HIOs, health systems, providers, and the larger general health community and media.

Review of Timeline



- First Draft Specifications:**
- Key User Stories
 - Content Container Spec
 - Security & Trust Spec
 - Comprehensive HIE Service Descrp.
 - Individual Involvement Service Descrp.
 - Addressing Spec
 - Abstract Model
 - Edge Spec
 - Deliverable: HISP-HISP & Source/Destination-HISP Service Description

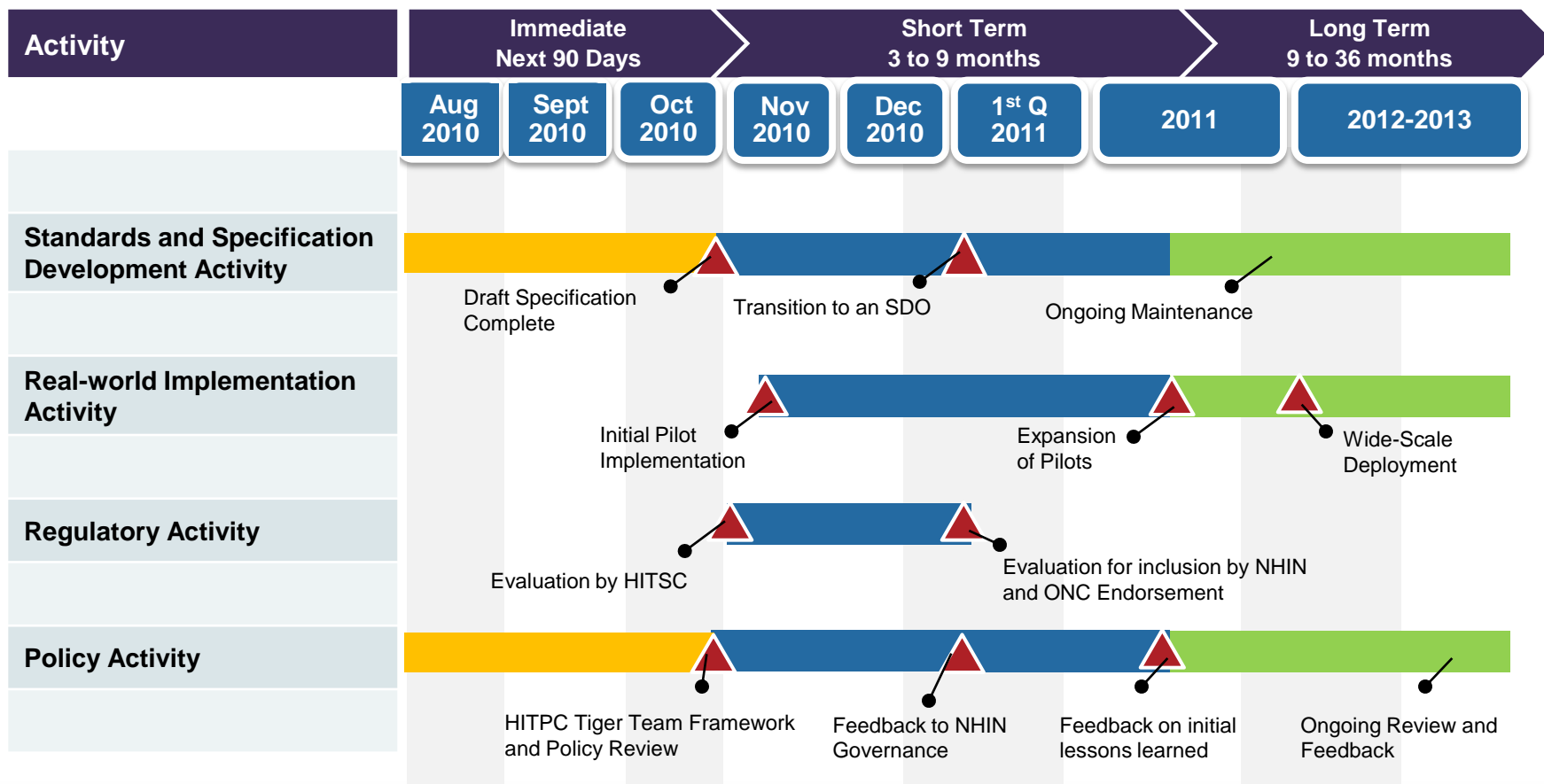
- 2nd Draft Specs**
- June
 - Early Ref Implementation
 - Core Specifications and Service Descriptions
 - Interaction Model/Service Orchestration Model
 - July
 - Ref Implementation
 - Testing Framework
 - Conformance Testing Scripts and Conformance Service
 - Ref Implementation Guides

- Ops/prod Draft Cert.
- Conformance Testing
- Core Messaging
- Policy Recommendation
- Process Recommendations

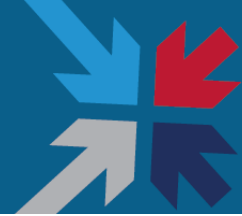
Weekly teleconferences

- ★ Face to face meetings
- ★ We Are Here

NHIN Direct High-Level Project Plan

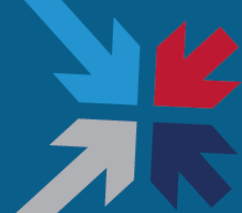


Immediate Initiatives	Short Term Initiatives	Long Term Initiatives
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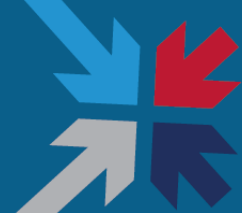
Workgroup Updates

Implementation Geographies Workgroup



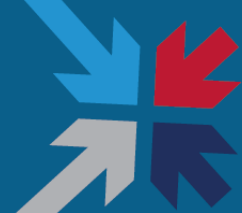
- » Purpose is to plan for early implementations demonstrating real-world information exchange following existing care delivery patterns
- » Leader: Paul Tuten
- » Updates from 8/25 Meeting:
 - Received official update from the CSharp Reference Implementation Team
 - The pilot projects are working on more detailed planning and discussing specific issues as they arise
 - The following cross-walks are being populated:
 - Pilots x User Stories
 - Pilots x Meaningful Use Criteria
 - Pilots x IT Vendors
 - Team lead Paul Tuten has requested that pilot projects contribute to the [Resource and Collaboration Matrix](#)

Security and Trust Workgroup



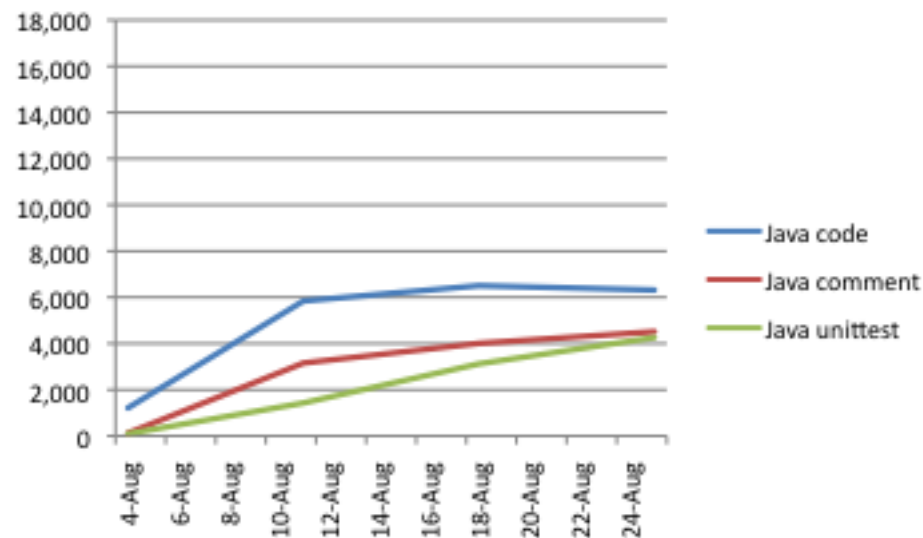
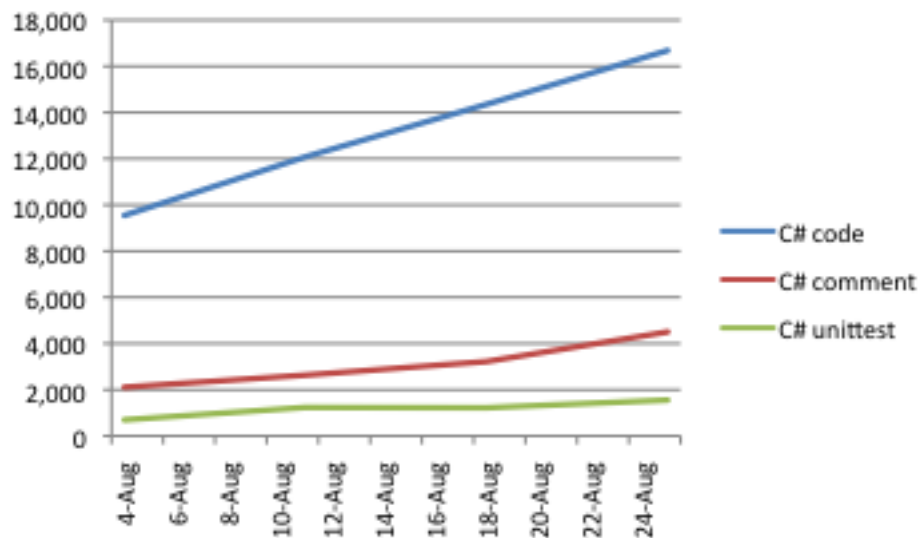
- » Purpose is to provide alternatives and highlight issues relating to security and trust enablement via technology (e.g., certificates and signatures)
- » Leader: Sean Nolan
- » Key Deliverable: Security & Trust Threat Assessment Model
- » Update from 8/26 Meeting:
 - The WG reached consensus on the certificate distribution issue:
 - Keep the current DNS mechanism for certificate distribution
 - Address LDAP in the specification and stress an exploratory approach
 - Ask each pilot to determine what approach best meets their needs
 - Resolve to achieve universality by next year
 - The WG initiated a final review of the following:
 - [Threat Model – SMTP with Full Service HISPs](#)
 - [Threat Model – Simple SMTP](#)
 - The WG will move to consensus this week for the threat models

Reference Implementation Workgroup



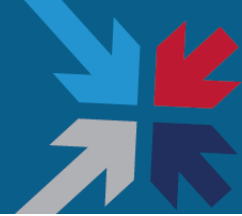
- » Purpose is to create a solid open-source reference implementation and associated libraries implementing the NHIN Direct specifications
- » Leader: Brian Behlendorf
- » Update from 8/31 Meeting:
 - CSharp Implementation
 - Status: Progress on Caching Side and Config UI; conducted BugScrub
 - Remaining work: XD* Side, Chain Builder, Unit Testing, Documentation
 - Initiated conversation with Geographies WG
 - Java Implementation
 - Status: Progress made on agent and gateway pieces
 - Remaining work: Config UI, XD* Side, Unit Testing, Documentation
 - Road Ahead
 - Key Milestone: Reach feature-ready state for implementation geographies
 - **September 21st & 22nd: F2F Code-a-thon: Rochester, Minnesota**
 - Possibility of conducting a feature-ready F2F in October

Lines of Code

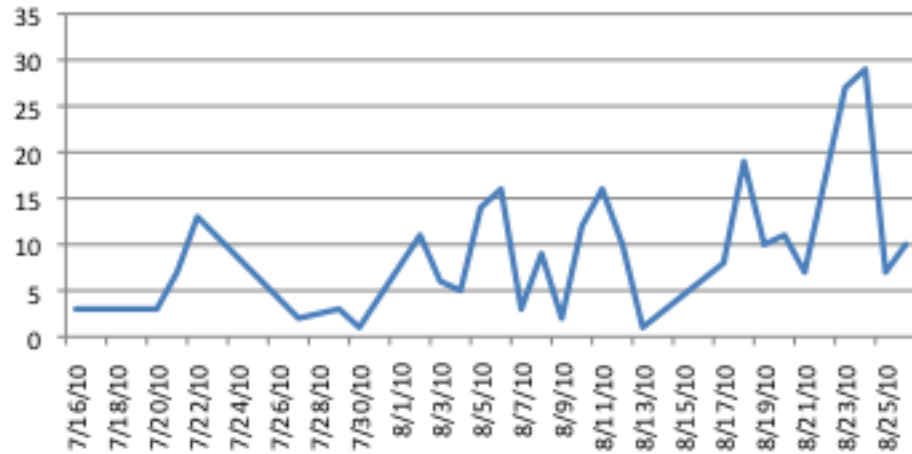


- » Rapid and consistent growth on the C# side
 - C# team had to write much more code (DNS, MIME) than Java team due to better libraries on the Java side
 - Unit test and API documentation lagging behind
- » Java team has excellent progress on engineering quality (unit tests, documentation)

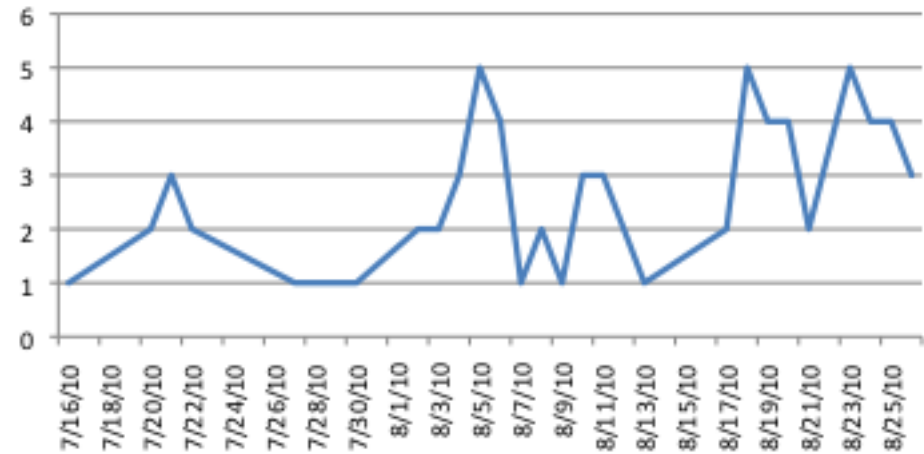
Commits and Authors



Daily Checkins



Unique Committers



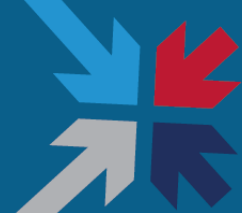
- » Project is generally healthy, with number of checkins and committers increasing over time
- » Still reliant on a few key individuals

Functional Status



Area	C#	Java
Core SMTP Agent	Code complete, partially unit tested, Early end-to-end testing	Code complete, unit tested, Early end-to-end testing
Local Certificate Resolution	File, DB code complete	File code complete
DNS Certificate Resolution	Code complete, partially unit tested, early end-to-end testing	Code complete, partially unit tested, partial end-to-end testing
LDAP-based Certificate Resolution		In progress for private certs and trust anchors
Agent configuration	XML complete, DB and web UI in progress	XML complete, DB and web UI not started
XDM packaging	In progress?	Alpha code
XDD (XDR with minimal metadata)	Waiting on specification	Waiting on specification
Client API	N/A	N/A

Documentation and Testing Workgroup

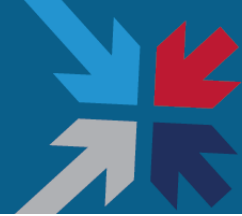


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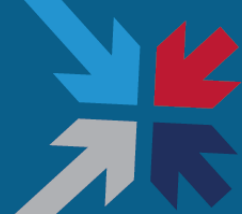
- » Do you have a documentation need? Let us know! (Be pushy.)

- » Call for Consensus! Golly!
<http://nhindirect.org/NHIN+Direct+Overview+Call+for+Consensus>

- » This coming week:
 - S/MIME Specification
 - XDD ← laying the groundwork

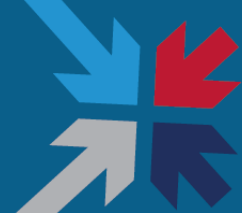


- » Purpose is to provide clarity about what NHIN Direct is and how it fits into the health information and transformation ecosystem. Key audiences include State HIEs, RECs, HIOs, health systems, providers, and the larger general health community and media.
- » Leader: Rich Elmore
- » Priority Deliverables drafted
 - Key Messages for:
 - States / HIEs
 - Health Systems / Individual Providers
 - HIT Vendors
 - What is NHIN Direct?
- » See Communications Priorities on the wiki
 - <http://nhindirect.org/Communication+Priorities>



Calendar & Participation

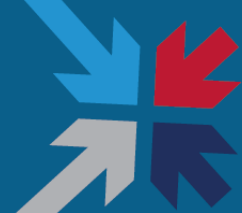
New WG Schedule



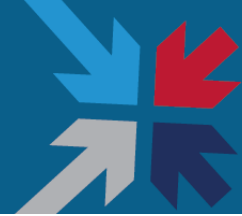
- » WGs adhere to the schedule below, meeting via teleconference on a weekly basis

WG	Meeting Time
Reference Implementation/Open Source WG	Tuesdays 12 pm-1pm EST
Implementation Geographies WG	Wednesdays 12 pm-1pm EST
Documentation and Testing WG	Wednesdays 2 pm- 3pm EST
Security & Trust WG	Thursdays 2pm-3pm EST
Communications WG	Tuesdays, 1 pm-2 pm EST

Close to 200 Implementation Group Participants



- » Alere
- » Allscripts
- » American Academy of Family Physicians
- » Argonne National Laboratory
- » Atlas Development
- » Axolotl
- » CareSpark/MobileMD/Serendipity Health
- » Cautious Patient
- » Cerner
- » Clinical Groupware Collaborative
- » CSC
- » eClinicalWorks
- » EHR Doctors
- » Emdeon
- » FEI
- » GE
- » Google
- » Greenway Medical Technologies
- » Harris Corporation,
- » High Pine Associates
- » HLN Consulting
- » ICA,
- » Inpriva
- » Intel
- » Kryptiq
- » LabCorp
- » Massachusetts eHealth Collaborative
- » MedAllies
- » Medical University of SC,
- » Medicity
- » MedNet
- » MedPlus/Quest Diagnostics
- » Microsoft
- » Mirth Corporation
- » MOSS
- » Nationwide Health Information Technology
- » NIH NCI
- » NIST
- » NYC Dept. of Health and Mental Hygiene's PCIP
- » Oregon HIE Planning Team
- » Redwood MedNet
- » RelayHealth
- » Secure Exchange Solutions
- » Siemens
- » South Carolina SDE
- » SureScripts
- » Techsant Technologies
- » TN State HIE
- » VA
- » VisionShare



Q&A