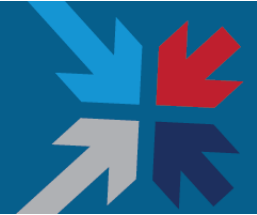


## NHIN Direct Implementation Group Meeting

April 27, 2010



# Agenda



» Quick Summary of Last Meeting & Reminders

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» “What is new about NHIN Direct” Diagram

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» WG Updates

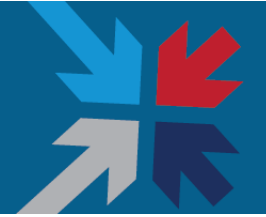
- » User Story Review
  - » Content Packaging
  - » Security & Trust
  - » Robust HIE Interoperability
  - » Individual Involvement
  - » Addressing
  - » Abstract Model
  - » Concrete Implementation
  - » Implementation Geographies
  - » New Workgroups
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» Calendar & Participation

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» Next Steps

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## Quick Summary of Last Meeting & Reminders

# Summary of Last Meeting



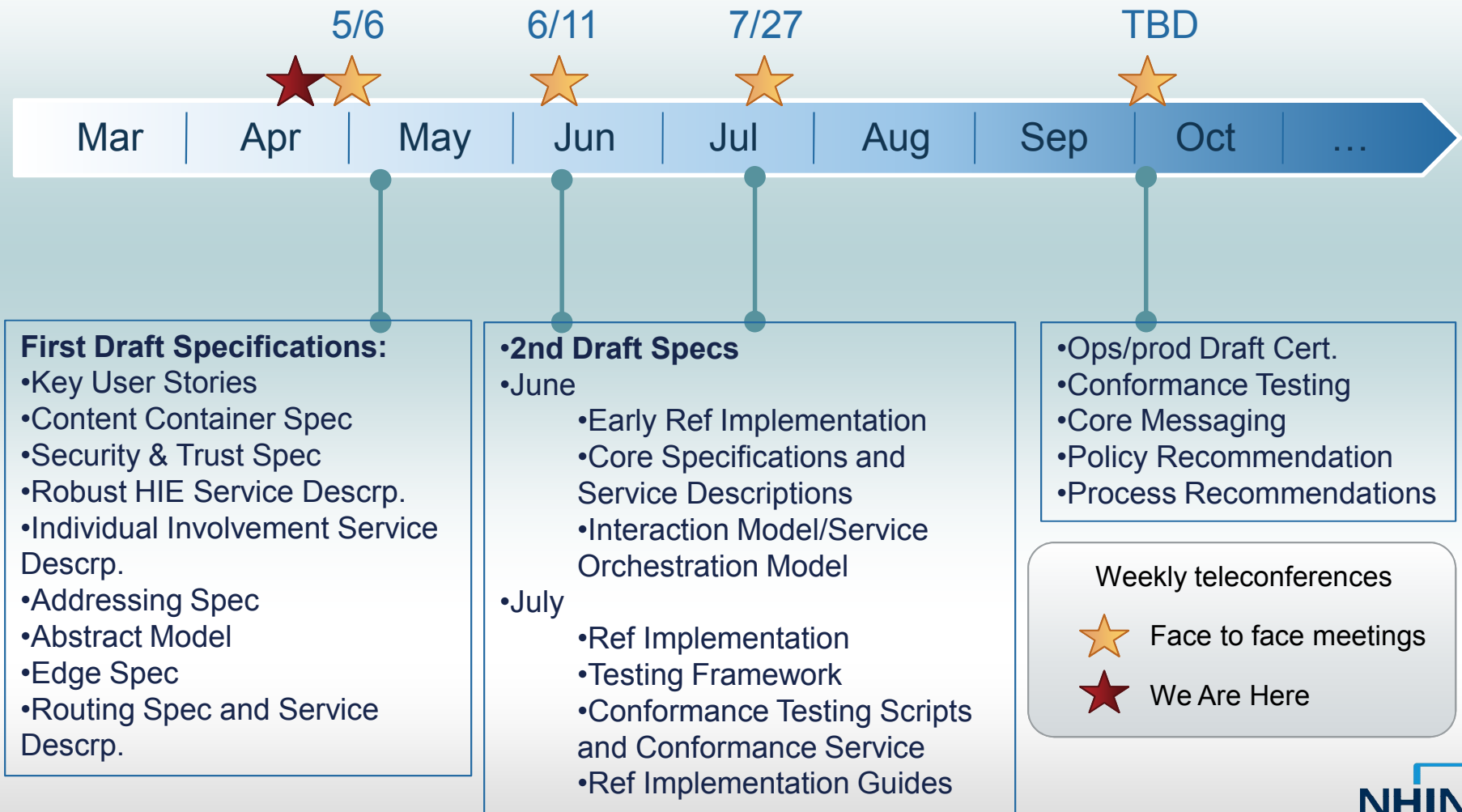
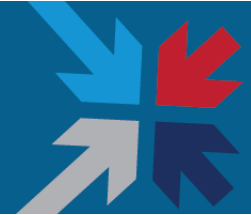
- » Each WG gave updates
- » Three new workgroups were announced:
  - Implementation Geographies WG
  - Documentation WG
  - Testing WG
- » IG Members had a discussion about sharing NHIN Direct Updates with the HIT Standards Committee and with the ONC Policy Team to ensure NHIN Direct technology doesn't come before the policy
- » IG set action items:
  - A representative from each organization was to vote on the Addressing Specification:  
<http://nhindirect.org/Addressing+Specification+Implementation+Group+Endorsements>
  - The Security and Trust WG was to define “trust assertion”

# Review of WGs

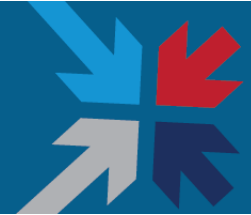


- » **User Story Review WG:** Provide consistent, vetted set of user stories available on the Wiki
- » **Concrete Implementation WG:** Recommend a high level concrete implementation or set of concrete implementations mapping to the abstract model and meeting all Must User Stories
- » **Content Packaging WG:** Define a few workable alternatives, with pros/cons, for content packaging
- » **Security & Trust WG:** Provide alternatives and highlight issues relating to security and trust enablement via technology (e.g., certificates and signatures)
- » **Robust HIE Interoperability WG:** Define how to mix and match direct transactions and robust HIE/NHIN specifications and services (patient discovery and information access) capabilities at scale
- » **Individual Involvement WG:** Clarify technology issues and policy implications for individual involvement in direct transport
- » **Addressing WG:** Define an implementation neutral mechanism for addressing that enables provider/individual identification and enabling organization routing
- » **Abstract Model Review WG:** Review and finalize a formal abstract model that all WGs can use to define common vocabulary

# Review of Timeline



# Review of Deliverables for May 6<sup>th</sup> Face-to-Face



## Deliverables In Progress:

- » **Key User Stories:** The User Story WG will provide a consistent, vetted set of User Stories
- » **Content Container Specifications:** The Content Packaging WG will define a few workable alternatives for content packaging so that patient data of mixed types can be packaged and sent
- » **Security & Trust Specifications:** The Security & Trust WG will provide alternatives and issue relating to security and trust enablement via technology
- » **Robust HIE Service Description:** The Robust HIE WG will provide a Service Description of how to mix and match direct transactions and robust HIE/NHIN specifications and services capabilities at scale
- » **Individual Involvement Service Description:** The Individual Involvement WG will provide a Service Description of how individuals can participate in NHIN Direct Project Services
- » **Addressing Specification:** The Addressing WG will provide a Specification on to effective addressing methods -- what is the health “email” address
- » **Abstract Model:** The Abstract Model WG will provide a Diagram and Specification of an Abstract Model that all WGs can use to determine core architectural components, assumptions and terminology

## Deliverables Not Yet Started:

- » **Edge Specification:** The Concrete Implementation WG will provide a simple specification to allow EHR to send and receive content via enabling organization
- » **Routing Specification and Service Description:** The Concrete Implementation WG will provide a specification and service description to cover routing between enabling organizations with the verification of signature based headers and explicit certified white lists

# Review of Final Deliverables



## Specifications & service descriptions including

- » Formalized models
- » Core specifications and service descriptions
- » Conformance testing scripts and conformance service
- » Reference implementation guides for edge systems and routing systems (including sample code, testing and conformance documentation, legal and policy documentation, etc...)
  - Implementation guide for CONNECT users



## Process recommendations

- » Use of NHIN Direct as a model (positive or negative)
- » Formalized modeling process recommendations

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## Policy recommendations

- » Recommendations on Federal role, states, etc...
- » Policy recommendations for trust enablement

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## Marketing/awareness

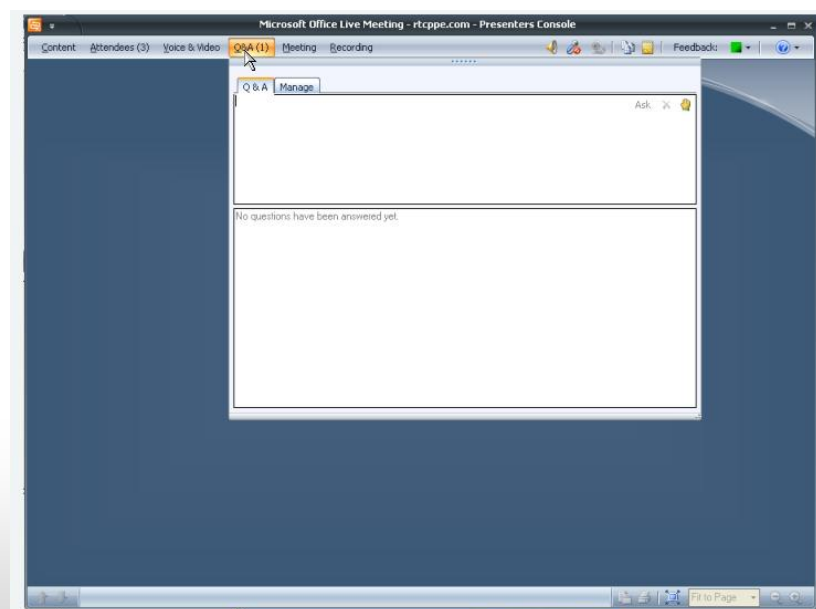
- » Core messaging
- » Placements in industry journals, key social media outlets, etc...

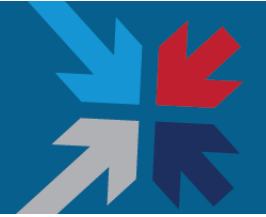


# Review of Participation



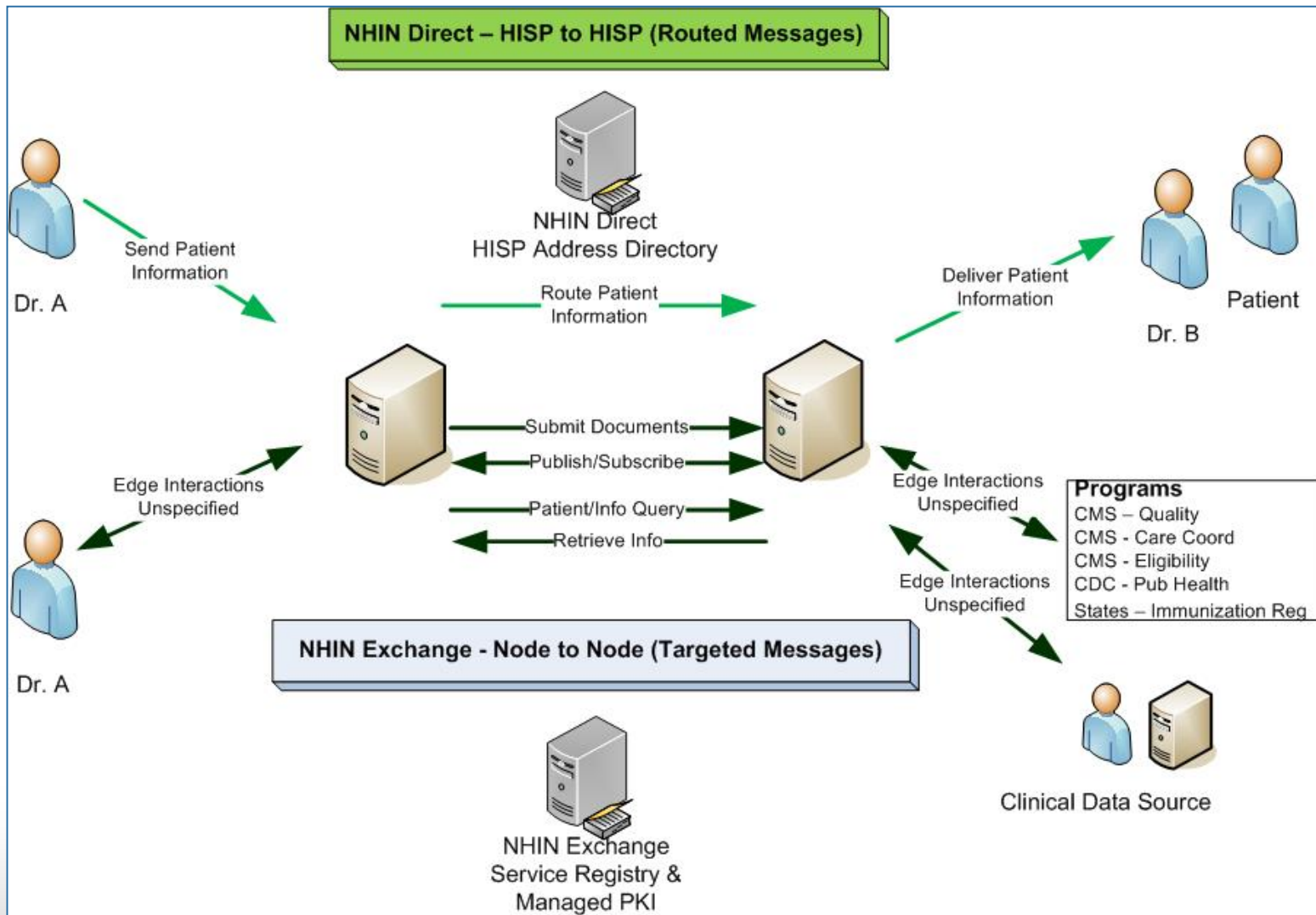
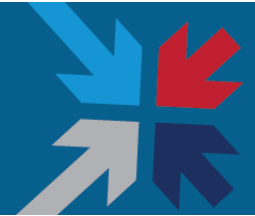
- » Use the Q&A text box function in the web conference to ask a question, or to signal an intent to speak
- » **To type a question**, please type questions into the Q&A text box and click 
- » **To vocalize a question**, please use the “raise your hand” function found in the upper right hand corner: 

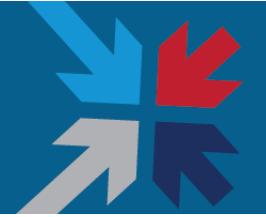




## What is new about NHIN Direct Diagram

# What is new about the NHIN Direct Project?



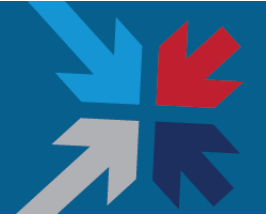


## Updates from the User Story WG

# User Story Review Workgroup



- » *Purpose is to provide consistent, vetted set of user stories available on the Wiki*
- » Key May 6<sup>th</sup> Deliverable: Key User Stories
- » Leader: Peter DeVault
- » Last week the WG:
  - Updated Immunization User Story and do full call for consensus by next meeting
  - Got MU Matrix into the Wiki
  - Removed the Provider sends and receives data with minimal HIT technology Story
  - Ensured that language used in the rest of the stories referring to EHR is consistent and reflecting ISO, ARRA & IFR definitions
  - Changed design principal #9 will be modified to be consistent with those definitions
- » This week the WG will:
  - Vote on consensus for User Stories: [User Story Workgroup Endorsement](#)
  - Create a Long Term Care Story and a Quality Reporting Registry
  - Update the stories that are links that are not complete & stories without links about Public Health and Quality Reporting
  - Make clear when there are dual criteria for hospitals/providers that are reflected in the mapping and the story

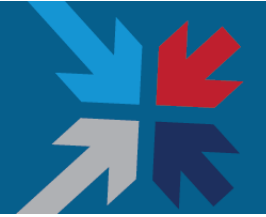


## Updates from the Content Packaging WG

# Content Packaging Workgroup



- » *Purpose is to define a few workable alternatives, with pros/cons, for content packaging*
- » Key May 6<sup>th</sup> Deliverable: Content Container Specifications
- » Leader: David McCallie
- » Last week the WG:
  - Provided post on the wiki further thoughts on an alternative, super simple content packaging formula that meets use case of presupposition
  - Provided post on applicability of ZIP on Wiki
  - Provided Post about MIME on Wiki
- » This week the WG will:
  - Write a Requirements Document for Content Packaging Specification
  - Provide a “layering” discussion on the Wiki



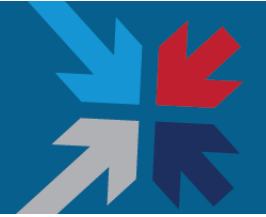
## Updates from the Security and Trust WG



# Security & Trust Workgroup



- » *Purpose is to provide alternatives and highlight issues relating to security and trust enablement via technology (e.g., certificates and signatures)*
- » Key May 6<sup>th</sup> Deliverable: Security & Trust Spec
- » Leader: Jonathan Gershater
- » Last week the WG:
  - Investigated use of government ASTM Use Cases
  - Provided information about the Kantara initiative on the Wiki
  - Write this idea of “chain of trust” on the Wiki
- » This week the WG will:
  - Create a definitive statement on trust enablement for NHIN Direct for Workgroup consensus and Implementation Group consensus by the 5/6 meeting. Statement should cover the level of trust, the handling of different roles, etc...

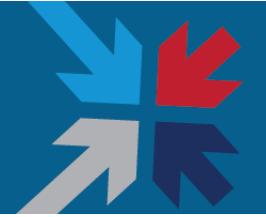


## Updates from the Robust HIE Interoperability WG

# Robust HIE Workgroup



- » *Purpose is to define how to mix and match direct transactions and robust HIE/NHIN specifications and services (patient discovery and information access) capabilities at scale*
- » Key May 6<sup>th</sup> Deliverable: Robust HIE Service Description
- » Leader: Vassil Peytchev
- » Last Week the WG:
  - Explored the assumption that NHIN Direct uses current NHIN specifications, using the current IHE Implementation proposal as a starting point
  - Explored the assumption that NHIN Direct uses either the REST or SMTP implementation proposals. How would that fit with or conflict with the current NHIN?
- » This week the WG will:
  - Provide one page comparison guidance principles of NHIN with design principals of NHIN Direct
  - Express dependency to S&T workgroup -- post to their page and make a comment and request that it becomes part of their discussion

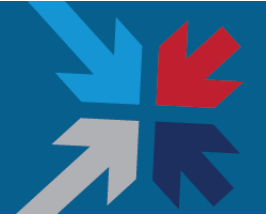


## Updates from the Addressing WG

# Addressing Workgroup



- » *Purpose is to define an implementation neutral mechanism for addressing that enables provider/individual identification and enabling organization routing*
- » Key May 6<sup>th</sup> Deliverable: Addressing Spec
- » Leader: Wes Rishel
- » Last week the WG:
  - Amended Health Domain Name sentence.
  - Ensured REST/IHE and SMTP concrete implementation Straw Cases to use health information exchange mapping
  - Ensured that the Health Endpoint Name is responsible for routing the end the transaction is received to the endpoint
  - Inserted Version Number
  - Workgroup voted for consensus
- » Next week the WG will:
  - All WG Members will vote on “Implementation Group Endorsements”
  - Arien/Karen will write in a revised wording for the text under Health Domain Name

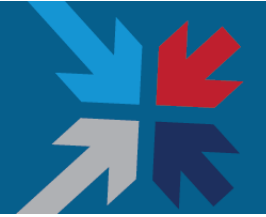


## Updates from the Individual Involvement WG

# Individual Involvement Workgroup



- » *Purpose is to clarify technology issues and policy implications for individual involvement in direct transport*
- » Key May 6<sup>th</sup> Deliverable: Individual Involvement Service Description
- » Leader: Richard Elmore
- » Last Week the WG:
  - Summarized for consensus to be able to pass on for the packaging group: given the workflow conditions, there would be cover letter but should also be able to annotate specific files as well
  - Wrote up a description of the asymmetric trust problem to pass onto the Security & Trust to figure out an elegant solution
- » Next week the WG will:
  - Describe business problem in technology neutral terms



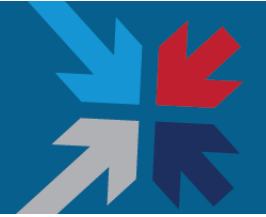
## Updates from the Abstract Model Review WG



# Abstract Model Workgroup



- » *Purpose is to review and finalize a formal abstract model that all WGs can use to define common vocabulary*
- » Key May 6<sup>th</sup> Deliverable: Abstract Model
- » Leader: Brett Peterson
- » Last week the WG:
  - Discussed comments from the Implementation Group Call for Consensus on Abstract Model version 1.1
    - Changed HISP-to-Destination language to not imply polling as the only allowed model
    - Removed the term “onboarding” from the HISP definition
  - Discussed the two example diagrams found at <http://nhindirect.org/Abstract+Model+Examples>
- » This week the WG will:
  - Have another round of discussion of the two examples, especially the BPMN diagram.
  - Ideally come to consensus that the current version of the Abstract Model provides enough high-level guidance for the 5/6/2010 face-to-face meeting



## Concrete Implementation WG

# Concrete Implementation Workgroup

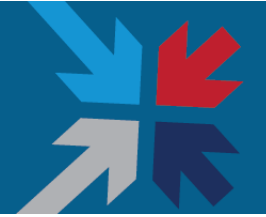


- » *Purpose is to recommend one+ high level concrete implementation mapping to the abstract model for further development and use in the pilots.*
- » Key May 6th Deliverable: Edge and Routing Specification
- » Leaders: Sean Nolan & Brian Behlendorf
- » Last week the WG:
  - Reached out to get a representative from AASP and SSA
  - Got a statement from the Robust HIE WG
  - Read the three concrete implementations
  - Caught up on Addressing Specification, Content Packaging Specification & Abstract Model
  - Had a conversation about rough consensus working code

# Concrete Implementation Workgroup

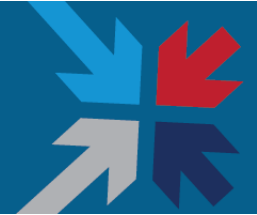


- » Now, the WG is currently organizing teams to push each proposal to the next stage:
  - » A software “map” describing the pieces required by each actor in the stories, and the existing software that can be used/built upon/modified.
  - » Description of the end-user UI for each actor, or running code that demonstrates this.
  - » A committed set of volunteers with the time and expertise to write the code and test tools usable for pilots, led by an identified organizer.
- » This is where the “running code” part from the Design Principles comes into play – from here forward, discussions of “simplicity” or “that should work” and the like should get backed by code or pseudo-code that implements the position being taken.
- » May 6th in-person meeting: a public review of the proposals on deck, and a last-call for further work. May 18: final recommendation.
- » **We'd like to see each Implementation Group participant sign up to at least one development team by the end of this week.**



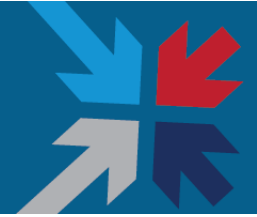
## Implementation Geographies WG

# Implementation Geographies Workgroup

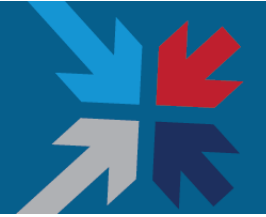


- » *Purpose is to provide a powerful demonstration of cross-state, cross organizational continuity of care*

# Future WGs



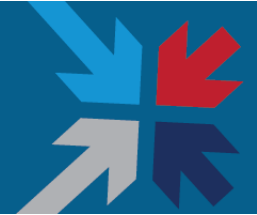
- » Testing WG
- » Documentation WG



## Calendar & Participation



# WG Schedule



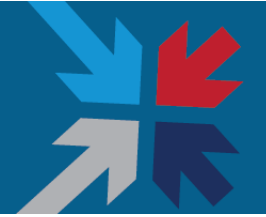
- » WGs adhere to the below schedule, meeting via teleconference on a weekly basis

WG	Meeting Time
User Story Review WG	Mondays 11am-12pm EST
Content Packaging WG	Wednesdays 1pm-2pm EST
Security & Trust WG	Thursdays 2pm-3pm EST
Robust HIE Interoperability WG	Tuesdays 2pm-3pm EST
Individual Involvement WG	Thursdays 1pm-2pm EST
Implementation Geographies WG	Fridays 2pm-3pm EST
Addressing WG	Wednesdays 3:30pm-4:30pm EST
Abstract Model Review WG	Wednesdays 11am-12pm EST
Concrete Implementation WG	Tuesdays 12pm-1pm EST

# Over 150 Implementation Group Participants



- » **PHR**
  - Microsoft (HV/Amalga)
- » **EHR**
  - Allscripts
  - Cerner
  - eClinicalWorks
  - Epic
  - GE
  - McKesson (through RelayHealth)
- » **HIE Technology**
  - RelayHealth (also PHR)
  - Axolotl
  - Mirth
  - VisionShare
  - GE
  - MedAllies
  - CSC
  - Medicity
  - Kryptiq
  - IBM/Open Health Tools
  - Secure Exchange Solutions
  - Informatics Corporation of America
  - Microsoft (HV/Amalga)
  - Oracle Health Sciences
  - Carespark/Anakam
  - Carespark/Mobile MD
- » **HIT Association**
  - Clinical Groupware Collaborative
- » **Medical Associations**
  - American Academy of Family Physicians
- » **State/Regional HIO**
  - CA (Jonah and David Lansky)
  - CA (Redwood MedNet)
  - TN (CareSpark)
  - MA (NEHEN-CSC)
  - MAeHC
  - NY (HIXNY)
  - NY (Hudson Valley) (through MedAllies)
  - HITOC (Oregon Health Information Technology Oversight Council)
  - RIQI (Rhode Island Quality Institute)
  - Carespark
  - HealthBridge
- » **IDN**
  - Kaiser
  - BIDMC/CareGroup
- » **Consulting**
  - Gartner
  - Carespark/CGI Federal
  - Carespark/Serendipity Health
  - HLN Consulting
- » **National Network**
  - SureScripts
  - Medplus/Quest
- » **Federal**
  - Veteran's Administration
  - Social Security Administration
  - National Institutes of Health



## Next Steps