

28 June 2006

Office of the National Coordinator for
Health Information Technology

Nationwide Health Information Network Forum

Session Number: 2.5

Session Name: System Qualities

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Statistics, Centers for Disease Control and Prevention**

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U.S. Department of Health and Human Services

Agenda

Introduction

- Process for the Breakout Discussion
- Description of Content Area

Discussion

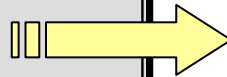
- Specific Areas of Variation or Need
- New Issues
- Architecture Differences
- Requirements Gaps
- Defining Minimal
- Questions to Consortia

Introduction - Session Process

- Please use microphones during discussions – sessions are being audio recorded
- Handouts
 - Functional Requirements .xls spreadsheet
 - Requirements Input Form
- Focus discussion on this functional category
- Not a review of individual requirements
- Requirements with policy implications will be noted and sent to appropriate process for discussion (e.g, HIT Policy Council, etc.)

Introduction - Session Overview

Session Number	Title
2.1	Data Content
2.2	Data Transactions
2.3	Data Transformation
2.4	Information Location and Data Storage
2.5	System Qualities
2.6	Security



Functional Categories to be discussed

System Qualities

Non-functional Requirements

- Accuracy
- Business Rules
- Performance
- Robustness
- Scalability

Introduction-

Entity Definitions Brief Review

Entity	Definition
Non-Functional Categories	Below is a proposed list of categories that include system qualities or “non-functional” requirements. As noted above, the expectation is that categories of non-functional requirements will only be designated where the property has a substantial impact on the architecture and capabilities of the Nationwide Health Information Network or a use case.
• Accuracy	A measure of the application service quality - from the customer’s perspective, the precision with which responses are provided to customer inquiries.
• Business Rules	Policy driven dynamic requirements that may change during the operation of the system, requiring that the system adapt to the change without major rework.
• Performance	A measure of the degree to which an entity satisfies its intended purpose.
• Robustness	A measure of the ability of system to adjust to unanticipated conditions (i.e., the ability of a system to adjust to unanticipated conditions without losing its endurance and level of quality).
• Scalability	A measure of the ability of system to adjust or extend to changing demands (user load, data load).

Discussion – Quick Review of Identified Issues

- What are the appropriate parameters for specifying response time requirements of the NHIN? Are they different for specific functions (e.g., pushing data vs pulling) or use cases (e.g., biosurveillance vs. lab reporting)?
- What are appropriate values for the parameters named above?
- What are the appropriate parameters for specifying response time requirements for administrative actions such as adding users or organizations to the NHIN and changing or invalidating authentication criteria?
- What are appropriate values for the parameters named above?
- What are the appropriate standards for availability of NHIN systems?
- What requirements, if any, should be established for availability of edge systems in the NHIN?
- What are the requirements for continuity of operation of NHIN functioning in the face of disasters? How readily would patient data be available in the different architectures if there is another event like Katrina? A pandemic?
- What requirements, if any, should be established for the continuity of operation of edge systems in the face of disasters?



Discussion – New Issues

What other issues are there that have not been identified?

Discussion – Specific Areas of Variation or Need

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- What are appropriate values for the parameters named above?

Discussion – Specific Areas of Variation or Need

- What are the appropriate parameters for specifying response time requirements for administrative actions such as adding users or organizations to the NHIN and changing or invalidating authentication criteria?
- What are appropriate values for the parameters named above?

Discussion – Specific Areas of Variation or Need

- What are the appropriate standards for availability of NHIN systems?

Discussion – Specific Areas of Variation or Need

- What requirements, if any, should be established for availability of edge systems in the NHIN?

Discussion – Specific Areas of Variation or Need

- What are the requirements for continuity of operation of NHIN functioning in the face of disasters? How readily would patient data be available in the different architectures if there is another event like Katrina? A pandemic?

Discussion – Specific Areas of Variation or Need

- What requirements, if any, should be established for the continuity of operation of edge systems in the face of disasters?

Discussion of New Issues Identified

- New Issues

Discussion - Architectural Differences

- Are there significant architectural differences?
- How many different architectural approaches are actually represented in this breakout area?
- What are they?

Discussion - Requirements Gaps

What are the areas where there are requirements gaps for this functional category?

Discussion – Defining Minimal

NCVHS needs to eventually refine the >1100 requirements to a “minimal”, but inclusive list. What is the best approach to having “minimal” requirements in this functional category?

Discussion - Questions to Consortia

What questions or issues would you like to ask of the consortia relative to this functional category?

Agenda Review

Wednesday, June 28 Afternoon

1:30- 3:00 pm	Entity Break Out Sessions
3:00- 3:15 pm	Break
3:15- 4:45 pm	Functional Category Breakout Sessions
4:45 pm	Adjourn

Thursday, June 29 Morning

8:00- 9:00 am	Use Case and NHIN Infrastructure Breakout Sessions
9:00- 9:15 am	Break
9:15- 10:15 am	Plenary Session- NHIN Consortia Architecture Response
10:15- 10:30 am	Break
10:30- 12:30 am	Closing Plenary Presentations to NCVHS and Public Comment

Documents for Reference

General



Functionality
Requirements XLS



NHIN Requirements
Approach

Session

Specific



Session 2.5 Specific

Please note: To access embedded documents, please press "esc" key to exit presentation mode