RSNA Image Share Validation Testing
How Do I Participate Today?

Open and close your control panel

Join audio:
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*Note:* Today’s presentation is being recorded and will be provided within 48 hrs

Problems or Questions? Contact Dawn Van Dyke
dvandyke@sequoiaproject.org or 703.864.4062
Meet Today’s Presenters

Chris Carr, Director of Informatics
RSNA

Didi Davis, VP Informatics, Conformance, & Interoperability
The Sequoia Project
Core Validation Team

Steve Moore
Mallinckrodt

Chris Carr
RSNA

Didi Davis
The Sequoia Project

Matt Blackmon
The Sequoia Project
Overview

• Current Scope of Sequoia’s Efforts
• What is the RSNA Image Share Validation
• Why image sharing matters?
• Image Sharing Barriers
• Aligns with ONC Mission and Priorities
• Foundational Standards for Image Validation
• Who Should Participate?
• Benefits of Validation to Patients and Providers
• Marketability for Vendors & Timelines
• Validated Vendors
• How to get started?
The Sequoia Project’s Role

The Sequoia Project is a trusted, independent convener of industry and government

Works to address the challenges of secure, interoperable nationwide health information exchange (HIE).
Current Sequoia Project Initiatives

The **eHealth Exchange** is one of the largest public-private health information networks in America.

**Carequality** is a national-level interoperability framework and common agreement to link all health information networks.

**RSNA Image Share Validation Program** is an interoperability testing program to enable seamless sharing of medical images.

**PULSE** is a system which enables disaster healthcare volunteers to treat individuals displaced by disasters.
Value from the Largest Public-Private Health Information Network
## The Largest Public-Private Health Information Network

### eHealth Exchange Connects:

<table>
<thead>
<tr>
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<th>All 50 States</th>
<th>70,000 Medical Groups</th>
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<td><strong>All 50 States</strong></td>
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<td><strong>Four Federal Agencies</strong> (VA, SSA, DoD, CMS)</td>
<td>3,400+ Dialysis Centers</td>
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<td>75% of U.S. Hospitals</td>
<td>8,300 Pharmacies</td>
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<td><strong>Supporting more than 120 million patients</strong></td>
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<td><strong>59 Regional and State HIEs</strong></td>
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<table>
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<tr>
<th>Patient-Centric Exchange Use Cases</th>
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<tr>
<td><strong>Treatment / Care Coordination</strong></td>
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<td><strong>Social Security Disability Benefits Determination</strong></td>
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<td><strong>Immunization</strong></td>
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<td><strong>CMS End Stage Renal Disease Quality Reporting</strong></td>
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<td><strong>Life Insurance Applications</strong></td>
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<td><strong>Consumer Access to Health Information</strong></td>
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<td><strong>Image Share</strong></td>
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<td><strong>Encounter Alerts</strong></td>
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<td><strong>Prescription Drug Monitoring Program (PDMP)</strong></td>
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<td><strong>Syndromic Surveillance Reporting</strong></td>
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eHealth Exchange Image Share Use Case Aligns with RSNA Image Share Validation Program

- The Image Share Use Case can add great value to existing exchanges
- IHE Cross Community Access (XCA) is the foundation for the query use case widely implemented by eHealth Exchange Network Participants
- The eHealth Exchange Image Share Use Case references the RSNA Image Share Validation technical specifications
  - Cross Enterprise Document Sharing for Imaging (XDS-I) that can be leveraged within an enterprise
  - Cross Community Access for Imaging (XCA-I) across participants and networks
Not Your Ordinary Health Information Network

The longest-standing nationwide health information network supporting **diverse use cases**

The principle network enabling participants to connect directly with **federal agencies**

**Access to Carequality** implementer networks such as athenahealth, NextGen Healthcare, Surescripts, GE, & CommonWell

**Incubated by the federal government, the non-profit with a public mission enables health information sharing between and among private and public partners.**
An Interoperability Framework and Common Agreement

Accelerating seamless, interoperable health information exchange among health information networks

An initiative of the Sequoia Project
The Challenge

What if you had a cell phone plan that only allowed you to call others with the same carrier?

That’s the situation for most healthcare providers today when they join a health information network.
The Solution

Carequality creates a standardized, national-level interoperability framework and common agreement to **link** all health information networks

**Carequality** is creating a web of interconnected health information networks
Interoperability Framework in Practice
What is RSNA Image Share Validation

• The Image Share Validation Program provides a conformity assessment program that sets the standard for consistency in the marketplace.

• The Image Share Validation Program tests the compliance of vendor systems using quality standards determined most effective for accurate and efficient exchange of medical images.

• The RSNA Image Share Validation Program benefits patients and providers with improved efficiency, reduced costs, enhanced quality of care, and standards-based interoperability to spur innovation.
Why Image Sharing Matters

• Enables Patient Access/Workflows
• Benefit of historical exam during interpretation
• Concerns about cost of imaging over-utilization
  – Redundant exams ordered when recent exams are not accessible
• Radiation exposure – reduce unnecessary patient risk due to redundant exams
• Quality
  – Better, more efficient care through easy availability of imaging examinations
Image Sharing Barriers

- Governance and Exchange Policies
- Security and privacy concerns
- Providers may be reluctant to share patient information
- Vendors may desire to control proprietary networks
- Lack of agreement regarding standards
Aligns With ONC Mission and Priorities

ONC is now implementing several provisions of the bipartisan 21st Century Cures Act, signed into law in December 2016.

Steve Posnack, MS, M.H.S
Director of Standards & Technology - ONC
"2017 ONC Activities and Future Perspectives”
HL7’S 31ST ANNUAL PLENARY & WORKING GROUP MEETING
Foundational Standards for Image Sharing and Validation

- Ontologies - RadLex, SNOMED-CT
- DICOM medical imaging standards
- HL7 messaging
- IHE - Integrating the Healthcare Enterprise
  - Radiology Technical Framework
  - Organizes the existing standards into practical, efficient workflows
- Future releases: DICOM Web and HL7 FHIR

https://www.healthit.gov/isa/
RSNA Image Share Validation Program

• Fills a national Standards Gap
  – Product conformity assessment testing
• IHE profiles provide specifications for testing
• Modular Standards/Specifications/Test Cases
  – Cross-Enterprise Document Sharing for Imaging (XDS-I)
    • Document Source and Document Consumer
    • Registry and Repository
  – Cross-Community Access for Imaging (XCA-I)
    • Initiating Gateway
    • Responding Gateway
  – RSNA Image Share PHR

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RSNA Image Share

Letting patients take control of their medical images

- Pilot project funded by contract with NIH/NIBIB
- Designed to promote image sharing in support of patient-focused care
- Network encompassed 20+ care sites across the US
- Architecture based on IHE standards (XDS-I, PIX/PDQ)
- Patient access provided by participating PHR vendors
- Over 35,000 patients were given access to their imaging studies and reports
- Project concluded in March 2018
RSNA/IHE Image Share Architecture
Who Should Participate:

- Providers of **imaging systems** such as Reporting Systems, RIS, PACS and VNAs that wish to enable those systems to connect to networks for sharing images with providers and patients.
- Providers of **health information exchange systems** that wish to enhance their systems to exchange medical images and reports.
Benefits of Validation to Patients and Providers

• Improved efficiency
• Reduced costs and uncertainty
• Standards-based interoperability to spur innovation
• Reduce radiation exposure
• Stop duplicative procedures
• International IHE Conformity Assessment program

• Enhanced quality of care!
Marketability for Vendors

• The RSNA Image Share Validation seal will assure customers that your systems support convenient, standards-based image exchange.
• RSNA will promote the program to purchasers of imaging and information systems, and encourage them to select systems that have undergone validation testing.
• Sequoia will market at HIMSS global and national conferences.
• Third-party verification of foundational set of interoperability standards (IHE profiles) for secure exchange of patient information across enterprises.
• Improved patient outcomes through better and more consistent product quality.
Marketing Timeline

- **June 21, 2018: 2018 Enhanced** Image Share Validation Program Launch
- **October 24 - 26, 2018:** eHealth Exchange, Sequoia & Carequality, Annual Member Meetings
- **October 31, 2018:** 2018 RSNA Marketing deadline for test completion
- **January 11, 2019:** HIMSS19 Marketing deadline for test completion
Participants Awarded Validation Seals

http://sequoiaproject.org/rsna/validated-products/
Participant Fees

- $20,000 for the first testing bundle
- $2,000 for each additional testing bundle
- Maximum of $26,000 per participant for each testing cycle
- The validation mark will remain current for two years
- **Early bird 20% discount applied to testing fees for sign-up before September 28, 2018**
Getting Started

The Image Share Validation program will test the compliance of vendors’ systems using quality standards determined most effective for accurate and efficient exchange of medical images.

Download the RSNA Image Share Validation Documents:
• Application
• Testing Agreement

Pay the Testing Fees and gain access to the tools to test at your convenience
Opportunities Abound for Interoperable Exchange

• Leverage the growing connectivity footprint in the US and expand to include image exchange

• Inform development of PHR profile that will be deployed nationwide and reflect requirements for image exchange

• Be part of growing movement to broaden connectivity to support care management and population health
Questions and Answers

testing@sequoiaproject.org
http://sequoiaproject.org/rsna