The Interoperability Standards Advisory:
Engaging with Stakeholders to Advance Interoperability

Brett Andriesen
Program Analyst, HIT Infrastructure and Innovation Division
Office of Standards and Technology

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- A single, public list of the standards and implementation specifications that can best be used to address specific interoperability needs.

- Reflects the results of ongoing dialogue, debate, and consensus among industry stakeholders.

- Document known limitations, preconditions, and dependencies as well as other helpful information.

- Introduction

- Section I: Vocabulary/Code Set/Terminology

- Section II: Content and Structure

- Section III: Services

- Section IV: Models and Profiles

- Section V: Administrative *new*

  » Under each section, there are Subsections with various Interoperability Needs

  » Specific standards and implementation specifications support each Interoperability Need

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- Characteristics and other helpful information for each standard and implementation specification
  - » Standards Process Maturity
  - » Implementation Maturity
  - » Adoption Level
  - » Federally Required
  - » Cost
  - » Test Tools
  - » Limitations, Dependencies, Preconditions and Other Qualifying Information
  - » Applicable Value Set(s) and Starter Set(s) and Security Patterns
- Appendixes for "Sources for Privacy and Security Standards" and Educational / Informational Resources

Electronic Transmission of Reportable Lab Results to Public Health Agencies

Type	Standard Implementation/Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Federally required	Cost	Test Tool Availability
Standard	HL7 2.5.1 🖝	Final	Production	●●○○○	Yes 🖝	Free	No
Implementation Specification	HL7 Version 2.5.1: Implementation Guide: Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification Document for EHR Technology Certification 🖝	Final	Production	●●●●○ Rating: 4 out of 5	Yes 🖝	Free	Yes 🖝
Emerging Implementation Specification	HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public Health, Release 2 (US Realm), Draft Standard for Trial Use, Release 1.1 🖝	Balloted Draft	Pilot	Feedback Requested	No	Free	No

Limitations, Dependencies, and Preconditions for Consideration	Applicable Security Patterns for Consideration
• Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jursidictional variation or requirements. • The Emerging Implementation Specification: "HL7 Version 2.5.1 Implementation Guide: Electronic Laboratory Reporting to Public health, Release 2 (US REALM), Draft Standard for Trial Use, Release 1.1" listed above was in a Draft Standard for Trial use status, but was not renewed or balloted as normative. However, a recommendation was received to leave it listed here until there is wider adoption/experience with other listed specifications. • See HL7 V2 projects in the Interoperability Proving Ground.	• **Secure Communication** – create a secure channel for client-to-server and server-to-server communication. • **Secure Message Router** – securely route and enforce policy on inbound and outbound messages without interruption of delivery. • **Authentication Enforcer** – centralized authentication processes. • **Authorization Enforcer** – specifies access control policies. • **Credential Tokenizer** – encapsulate credentials as a security token for reuse (e.g., – SAML, Kerberos). • **Assertion Builder** – define processing logic for identity, authorization and attribute statements. • **User Role** – identifies the role asserted by the individual initiating the transaction. • **Purpose of Use** - Identifies the purpose for the transaction.

- Stakeholders who administer government and non-governmental procurements, testing, certification or grant programs to look first to the ISA to meet their interoperability needs.

- The ISA and their associated informative characteristics are also available to help more fully inform policy.

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What has changed?

- The web-based version of the ISA is updated frequently throughout the year, as new comments from stakeholders come in or as changes occur, with a call for comments in Fall timeframe.

- Specific SMEs have ownership of subsections of the ISA that are empowered to analyze public comments and make changes as necessary

- ONC will annually publish a static "Reference Edition" of the ISA that can be referenced in contracts, agreements, or as otherwise needed with certainty that the information will not change.

  » ONC is currently reviewing comments received in advance of 2018 Reference Edition publication.

Various Changes to the ISA in 2017

- ## Functionality
    - » Advanced search and filter of ISA contents (various characteristics)
    - » Subscribe to alerts for when changes are made to the ISA
    - » Capture more information about experiences with the standards
    - » Ability to "suggest" new Interoperability Needs for addition
    - » Mobile-optimized site navigation
    - » Print-friendly features at page/full ISA level
    - » Revision history available at page level.

- ## Content
    - » Better addressing interoperability needs for Consumer/Patient Access
    - » Addition of Administrative Standards
    - » Continued growth expansion of interoperability needs
    - » Improve upon how privacy and security is addressed

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- www.healthIT.gov/ISA

- Christina Caraballo, MBA, Director of Healthcare Transformation, Get Real Health

- Lorraine Doo, Senior Policy Advisor, National Standards Group, Office of Enterprise Information, Centers for Medicare and Medicaid Services (CMS)

- Mari Greenberger, MPPA, Director of Informatics, HIMSS

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Find the ISA at:
https://www.healthit.gov/ISA

Brett Andriesen
Brett.Andriesen@hhs.gov

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