



# ONC Annual Meeting

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## Ensuring Interoperability with ONC Tools:

The Standards Implementation & Testing Environment  
The Edge Testing Tool

Presenters: Nagesh Bashyam (Dragon), Glenn Janzen, John Snyder



# The Problem: Exchanging Health Information

- You try to send information, but it's returned "undeliverable"
  - » What is the problem and who is at fault?
  - » Is the problem with your system or the other?
  - » How can you troubleshoot without the IT staff?
- **ONC offers several tools that can help!**
- **The Standards Implementation and Testing Environment**
  - » [www.healthit.gov/SITE](http://www.healthit.gov/SITE)
- **The Edge Testing Tool**
  - » [www.healthit.gov/ETT](http://www.healthit.gov/ETT)
- **One Click Scorecard**
  - » [www.healthit.gov/Scorecard](http://www.healthit.gov/Scorecard)



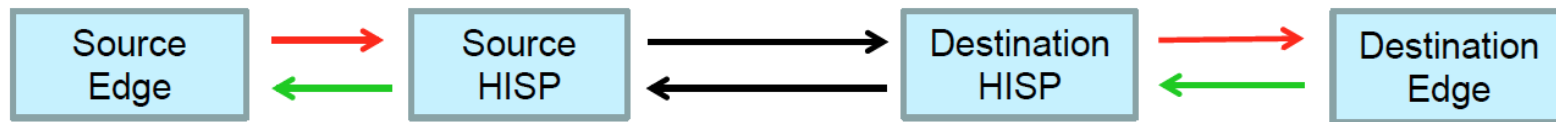
# Background & Terms

- **Direct Protocol**

- » E-Mail based transmissions that are encrypted and signed (secure channels)
- » Identify verification performed by service providers
- » End-to-end security using digital certificates

- **Edge**

- » The "Edge" of the network--the endpoint (your EHR is usually an Edge)



- **Health Information Service Provider (HISP)**

- » Establishes your trust arrangements, brokers your incoming-outgoing messages

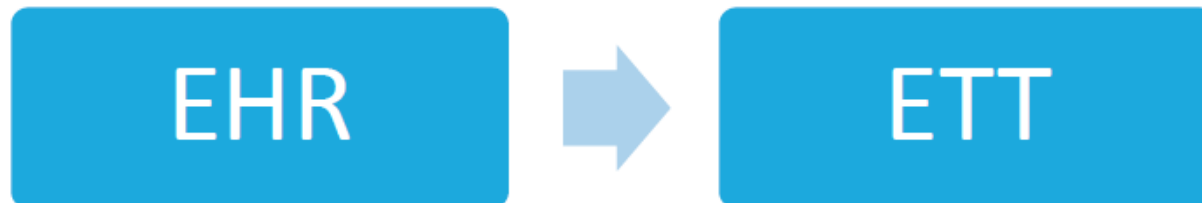
- **C-CDA (Consolidated Clinical Document Architecture)**

- » Structured Health Summary information in an XML format document

- [www.healthit.gov/SITE](http://www.healthit.gov/SITE)
- The **Standards Implementation & Testing Environment (SITE)** is a centralized collection of testing tools-resources designed to assist health IT developers-users.
- Resources and Tools for:
  - » Content: C-CDA
  - » Transport: Direct & XDR
  - » FHIR: Healthcare Interoperability Standard
- [www.healthit.gov/ETT](http://www.healthit.gov/ETT)
- The **Edge Testing Tool (ETT)** is a collection of testing utilities created to validate the requirements of the ONC 2014 and 2015 Edition Health IT Certification Program.
- Testing Components:
  - » Network Edge
  - » Health Information Service Provider Message Tracking
  - » Validates Content to the 2014 and 2015 Edition Criteria

# Send and Receive Problems

- **Your system sends a message, but it's not received!**
  - » Or the receiving system rejects the message
- **Providers are telling you that they cannot send to your system**
- **Troubleshooting Steps:**
  - » Send a message To ETT
  - » Validate Direct message formats in ETT
  - » Send a message To SITE (DirectTrust address)
  - » Use the C-CDA Validator & One Click Scorecard



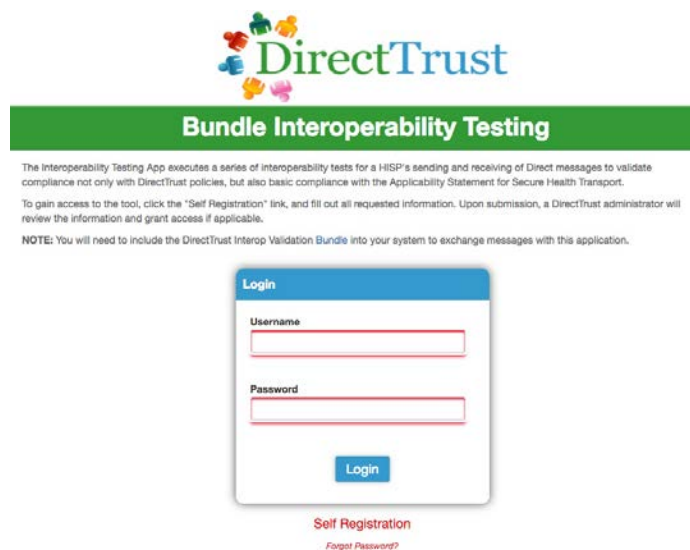
## How to Troubleshoot: Vital Signs

- If ETT receives your message then the basic infrastructure-format of your system is well--the problem is likely with the other system
- If you can send a Direct message to SITE then your system is well
- Validate your Direct message format in ETT
- You can do all of the same with XDR, SMTP, etc.
- Use the One Click Scorecard to check C-CDA
- Upload C-CDA's into the Scorecard for details
- **Takeaway 1: use ETT and SITE to verify your system's "vital signs"**
- **Takeaway 2: use the One Click Scorecard to confirm your clinical documents adhere to industry standards**



# DirectTrust Bundle Interoperability Testing Tool

- Self-service tool for testing above and beyond current ONC capabilities.
  - » Intended to check for best practices, detect common errors, and validate compliance with DirectTrust certificate and HISP policies.
  - » Required ongoing testing keeps DirectTrust HISPs current with the latest requirements resulting in a high bar of security, trust, and interoperability within the DirectTrust network.



- » <https://bundleinterop.directtrust.org/>



The Office of the National Coordinator for  
Health Information Technology



**Thank You for Attending!**

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[scorecard@direct.hhs.gov](mailto:scorecard@direct.hhs.gov)

[www.healthit.gov/Scorecard](http://www.healthit.gov/Scorecard)

**CONTACT INFORMATION:**

**John R. Snyder**

**HHS Office of the National Coordinator**

**202.260.0038**

**[john.snyder2@hhs.gov](mailto:john.snyder2@hhs.gov)**



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