

# eHealth Exchange<sup>TM</sup>

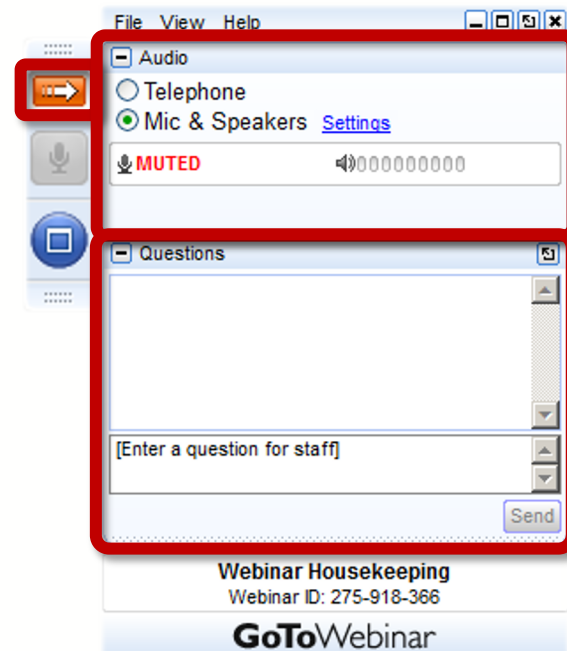
## All Participant Call

Kati Odom-Bell

Didi Davis

Jay Nakashima

# How Do I Participate?



## Your Participation

Open and close your control panel

Join audio:

- Choose "Mic & Speakers" to use VoIP
- Choose "Telephone" and dial using the information provided

Submit questions and comments via the Questions panel

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

Problems or Questions? Contact Dawn Van Dyke  
[dvandyke@sequoiaproject.org](mailto:dvandyke@sequoiaproject.org) or 703.864.4062

# Today's Topics

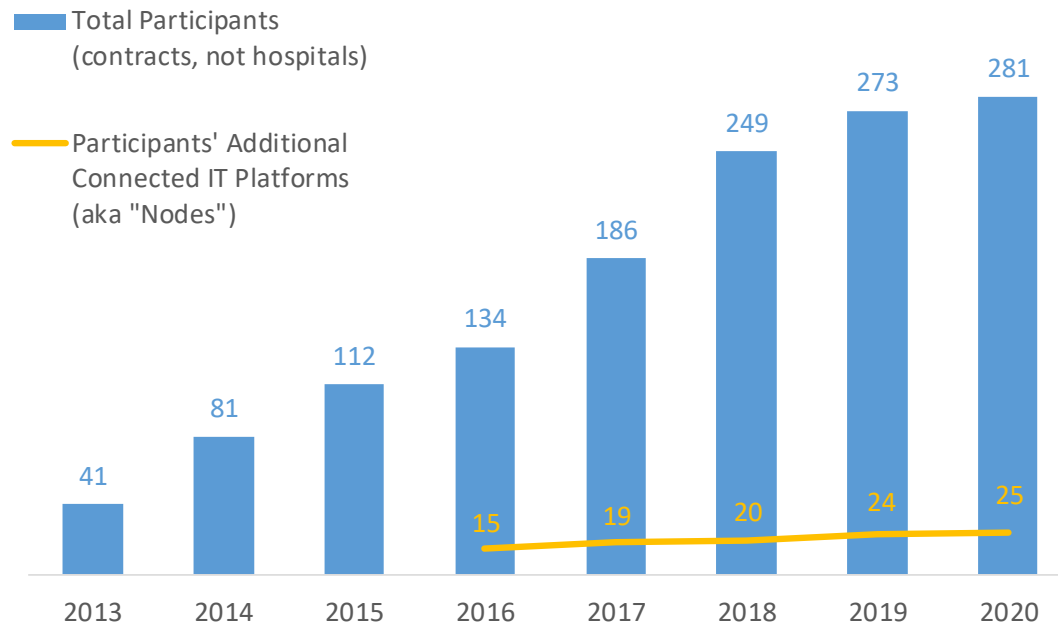
1. New Participants	Kati Odom-Bell
2. Electronic Case Reporting (eCr)	Jay Nakashima
3. Content Validation Reminders	Didi Davis
4. How to Engage	Jay Nakashima
5. Questions & Answers	Everyone



# New Participants

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# Congratulations to our newest Participant!



1. Connected Care Health Services, CA

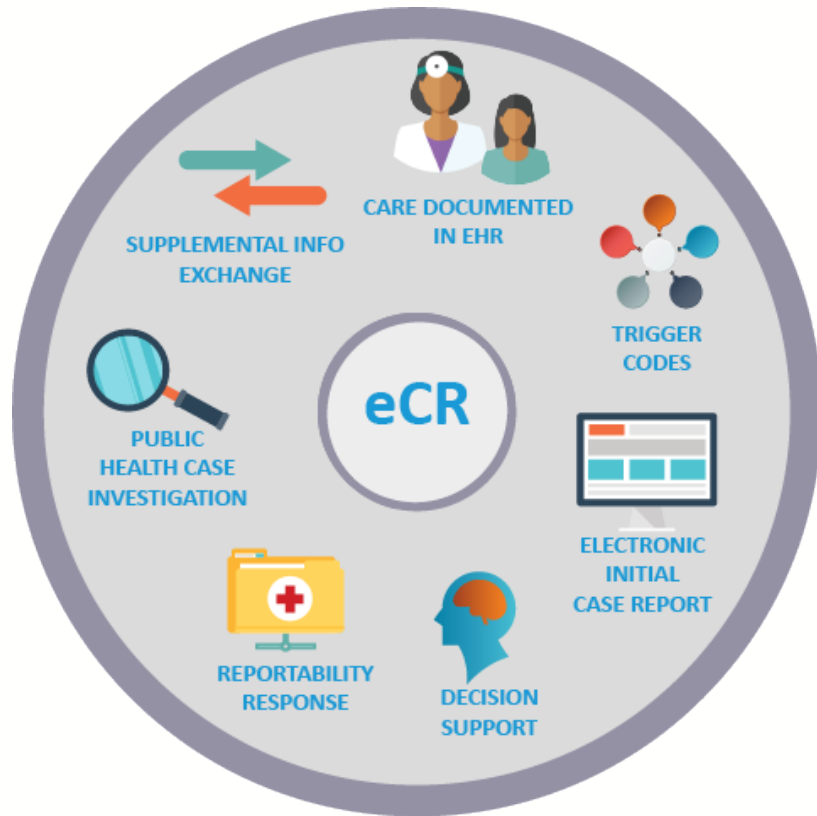
Committed to Improving Patient Care via Data Exchange



# Electronic Case Reporting (eCr)

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# What is Electronic Case Reporting (eCR)?

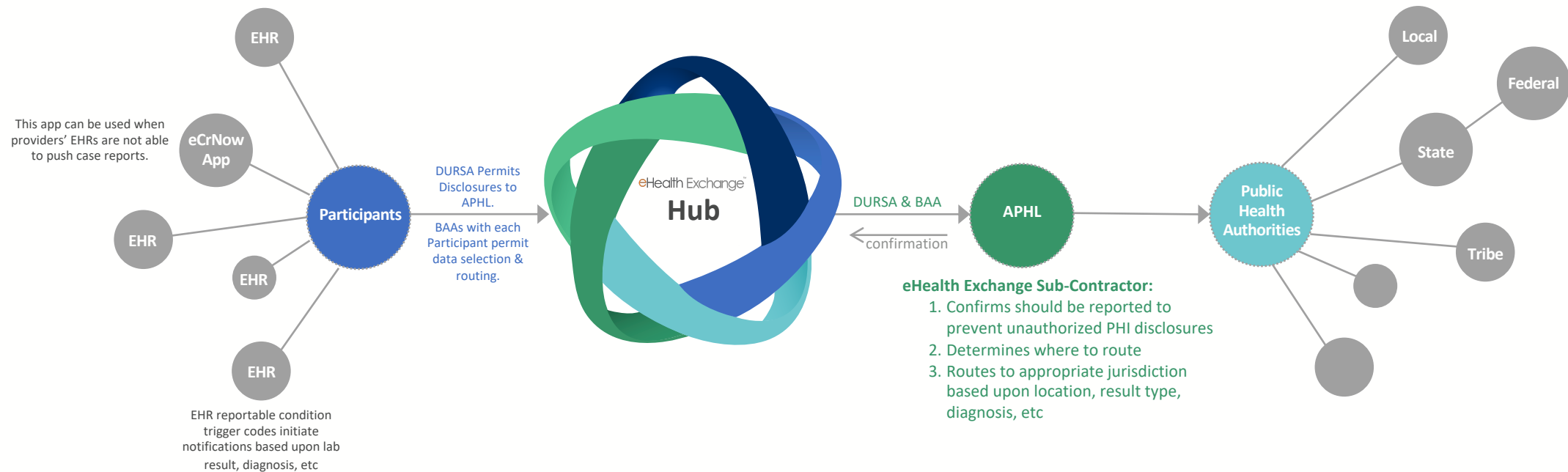


Electronic Case Reporting (eCr) refers to automated generation and transmission of case reports from EHRs to public health agencies for review and action.

## Case reporting is used for:

- Real-time monitoring of infectious disease outbreaks at the local, state and national levels
- Outbreak response including investigating possible cases, to help track exposures, origin of outbreak and controlling response activities
- Closed loop communication for the submission of and action needed by

# Pushing Electronic Case Reports (eCr)



## What data is pushed?

### CDA:

History of Present Illness  
Reason for Visit  
Date of Onset  
Diagnoses Date of Diagnosis Symptoms  
Laboratory Results  
Laboratory Order Code Placer Order Number  
Medications Administered  
Immunization Status  
Death Date

Patient's Travel History  
Travel History Start Date  
Travel History End Date  
Text Description of Travel  
Travel Location Code  
Travel Location Address

Hospital Unit  
Visit Date/Time  
Admission Date/Time  
Discharge Date  
Patient Class  
Patient ID Number  
Patient Name  
Parent/Guardian Name  
Patient or Parent/Guardian Phone  
Patient or Parent/Guardian Email  
Street Address  
Birth Date  
Patient Sex  
Race  
Ethnicity  
Preferred Language  
Occupation  
Pregnant

Date of the Report  
Report Submission Date/Time  
Sending Application  
Trigger Condition Codes  
HL7 Document ID  
SetID and Version Number  
Provider ID  
Provider Name  
Provider Phone  
Provider Fax  
Provider Email  
Provider Facility/Office Name  
Provider Facility/Office Name  
Provider Address  
Facility ID Number  
Facility Name  
Facility Type  
Facility Phone  
Facility Address  
Facility Fax



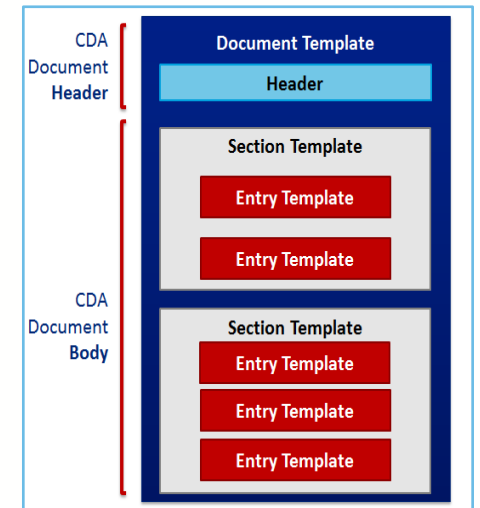
# Content Testing Program

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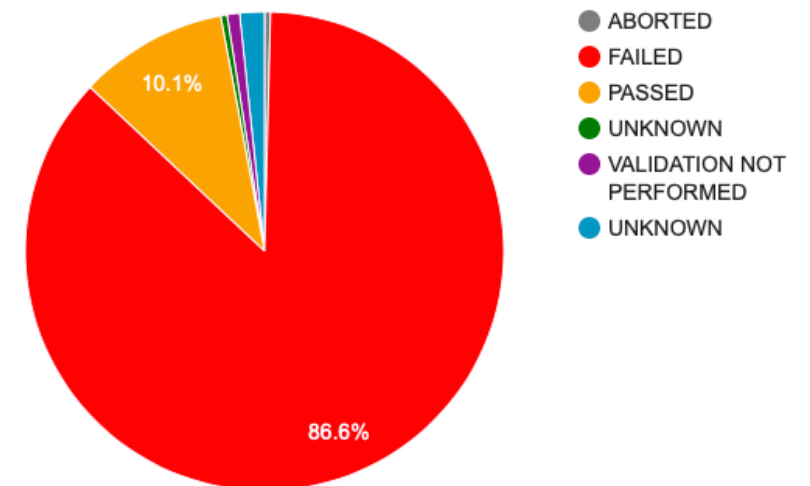
# Content Testing Program Background & History

1. 06/2015 Testing Workgroup approved by the eHealth Exchange Coordinating Committee (CC)
2. 07/2016 Content Testing Pilot Completed
3. 01/2017 Requirements Effective
  - MU 2011 Edition (HL7 CCD/C32)
  - MU 2014 Edition (HL7 C-CDA R1.1) + Companion Guide
  - MU 2015 Edition (HL7 C-CDA R2.1) + Companion Guide
4. 02/2018 Sequoia Interoperability Testing Platform Launched/Available – Content
5. 10/2019 All Existing and New Participants MUST Complete Initial Testing
6. April 30, 2021 All Participants have 18 months to remediate Reported Errors
  - Participants unable to remediate all errors and conformance issues should submit a remediation plan and/or a conformance waiver request to the eHealth Exchange for Coordinating Committee consideration within 16 months 2021/02



## Content Testing Status

- **10%** of Eligible Participants organizations have **Passed**
  - <https://ehealthexchange.org/participants/>  **Content Validated**
- **90%** have Submitted and **Failed** for various reasons, the most common are:
  - Vocabulary issues such as incorrect code system reference or incorrect value from value set referenced in the Value Set Authority Center (VSAC)
  - Required fields missing such as Street Address or other required CCDS data classes – US Realm Header Requirements
- >12,000 Documents Tested with >70% tested against HL7 C-CDA R2.1 Standards
- Sequoia working with Vendors and their Customers to coordinate remediation



# Industry-wide Content Pain Points



## Optionality:

More than one way to do things and inconsistent implementations across vendors



## Terminology:

Inconsistent terminology usage



## Specification Ambiguity



## Complexity:

The C-CDA standard is difficult to understand and consume and is lacking in clearly documented examples

## Process to Report Questions, Issue, Defects

- Email one question/issue/defect per email to [testing@sequoiaproject.org](mailto:testing@sequoiaproject.org)
  - Provide as much information as possible including:
    - Screenshots
    - Testing Permanent Link with Issue
    - Reference details for specification questions/issues

### Validate CDA documents

Information

File Name

DemoCCD 20161105.xml

OID :

1.3.6.1.4.1.12559.11.28.1444

Schematron :

N/A (Version N/A)

Schematron Validation ...

N/A

Validation Date :

9/28/17 12:25:53 AM (CEST GMT+0200)

Model Based Validator :

HL7 - C-CDA R2.1 - Meaningful Use Stage 3 (Version N/A)

Model Based Validation...

FAILED

Permanent link :

<https://gazellecontent.sequoiaproject.org/EVSCClient/detailedResult.seam?type=CDA&oid=1.3.6.1.4.1.12559.11.28.1444>

Data Visibility :

Private - Owned By SequoiaTest / SEQUOIA

Make this result public

share this result

Validate again

Perform another validation

# Defects Listing Sample – Issues reported since March 30

## KNOWN ISSUES - HL7 C-CDA R2.1

- **CONF: 1098-31579** - This Error should show as a Warning. **This has been reported to HL7 as an Errata** ([http://www.hl7.org/dstucomments/showdetail\\_comment.cfm?commentid=1856](http://www.hl7.org/dstucomments/showdetail_comment.cfm?commentid=1856)). **It appears that VSAC, which is our authoritative source of truth for the testing tooling related to value sets does not contain ALL the UCUM codes.** This effectively brings the valueSet validation to a SHOULD (since it's only a fraction of all valid UCUM for current and near-future). We'll be working with HL7 to help improve the valueSet for the UCUM codes, even though the binding was turned down to a warning.
- **CONF:1198-32928** is not a conformance reference in the HL7 C-CDA 2.1 specification and **should be labeled CONF:81-32928**
- **CONF:1198-5372 languageCode** and **CONF:1198-5407 languageCommunication Code** **should allow region extension** (e.g. en-US is firing an inappropriate error, including type-region is allowed). An errata has been opened with HL7 to address the IP issues with the value set. [http://www.hl7.org/dstucomments/showdetail\\_comment.cfm?commentid=1946](http://www.hl7.org/dstucomments/showdetail_comment.cfm?commentid=1946) The ISO-639-1 alpha 2 code in lower case for the language, optionally followed by a hyphen and the ISO-3166-1 alpha 2 code for the region in upper case; e.g. "en" for English, or "en-US" for American English versus "en-EN" for England English.

## KNOWN ISSUES - HL7 C-CDA R1.1 - Please NOTE that this specification is no longer being maintained by HL7 with regards to Errata processing.

- Any Schematron related Errata found [here](#) will likely show as an error that cannot be remediated within the tooling for the foreseeable future as Sequoia depends on HL7 to maintain the Schematron. There are 8 issues logged that are Schematron related.

<https://gazellecontent.sequoiaproject.org/EVSCClient/home.seam>



# Please Engage!

We'd love to hear from you

eHealth Exchange™

# Technical Work Group

## Typical Topics:

1. Technical Specification Creation
  - a. Push notifications
  - b. Populating directory with hospital locations
  - c. Broadcast query
  - d. FHIR Directory
  - e. Consumer access
  - f. Carequality harmonization
  - g. Controlled Unclassified Information (CUI) Marking
2. Testing
3. Hub Updates
4. Capacity planning [Final Thursday each month]

## Please Attend:

- <https://zoom.us/j/5128970748>
- Meeting ID: 512 897 0748
- One tap mobile: +16699006833,,5128970748#
- Thursdays at 4-5pm ET, 4/2/2020 through 8/31/2020

## How might I obtain additional information?

How	When	Where
1. Visit eHealth Exchange Web Site	Any time	<a href="https://ehealthexchange.org">https://ehealthexchange.org</a>
2. Monthly Participant Web Meetings	Typically, the 3rd Thursday of Each Month at 1 pm ET	<a href="https://ehealthexchange.org/events">https://ehealthexchange.org/events</a>
3. Weekly Technical Workgroup	Thursdays 4-5 ET (April through August+)	<a href="https://ehealthexchange.org/events">https://ehealthexchange.org/events</a>
3. Email	Any time if you have a specific question	<a href="mailto:administrator@ehealthexchange.org">administrator@ehealthexchange.org</a>

# Questions & Answers

Please e-mail questions or concerns to  
[administrator@ehealthexchange.org](mailto:administrator@ehealthexchange.org)