eHealth Exchange™

All Participant Call

Pat Russell

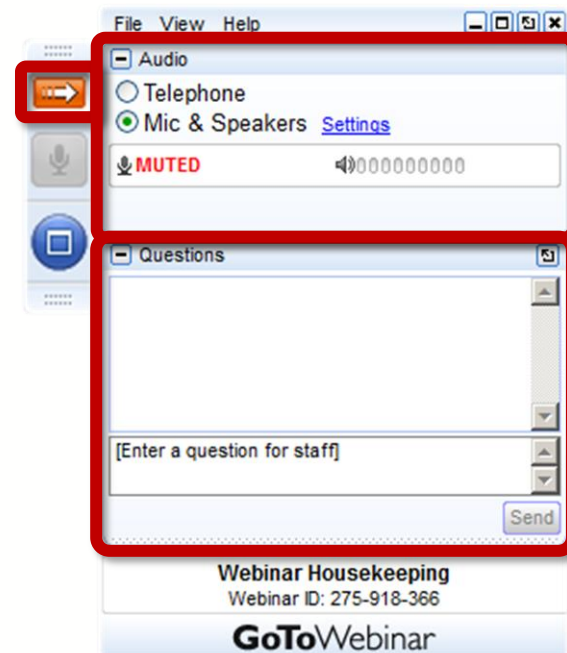Jay Johnstone

Mike Yackanich

Jay Nakashima

Debbie Condrey

Didi Davis

Mark Rogers

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@ehealthexchange.org or 703.864.4062

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Today's Topics

Agenda	
1. New Team Member	Pat Russell
2. New Participants	Pat Russell
3. FDA Pilot Announcement	Mike McCune
4. FHIR Roadmap Highlights	Mike McCune
5. Content Validation	Didi Davis
6. FHIR R4 and Directory Update	Debbie Condrey
7. eCR Update	Jay Johnstone
8. Certificate Authority Transition Update	Debbie Condrey
9. Hub Certificate Update	Mike Yackanich
10. Virtual Annual Meeting	Pat Russell
11. Contacts	Pat Russell
12. Q&A	Everyone

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New eHealth Exchange Team Member

Introduction – Mark Rogers – Program Manager Implementations

Mark Rogers, Program Manager Implementations

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New Participants

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Congratulations to our newest Participants!

- El Rio Santa Cruz Neighborhood Health Center, Inc, Epic

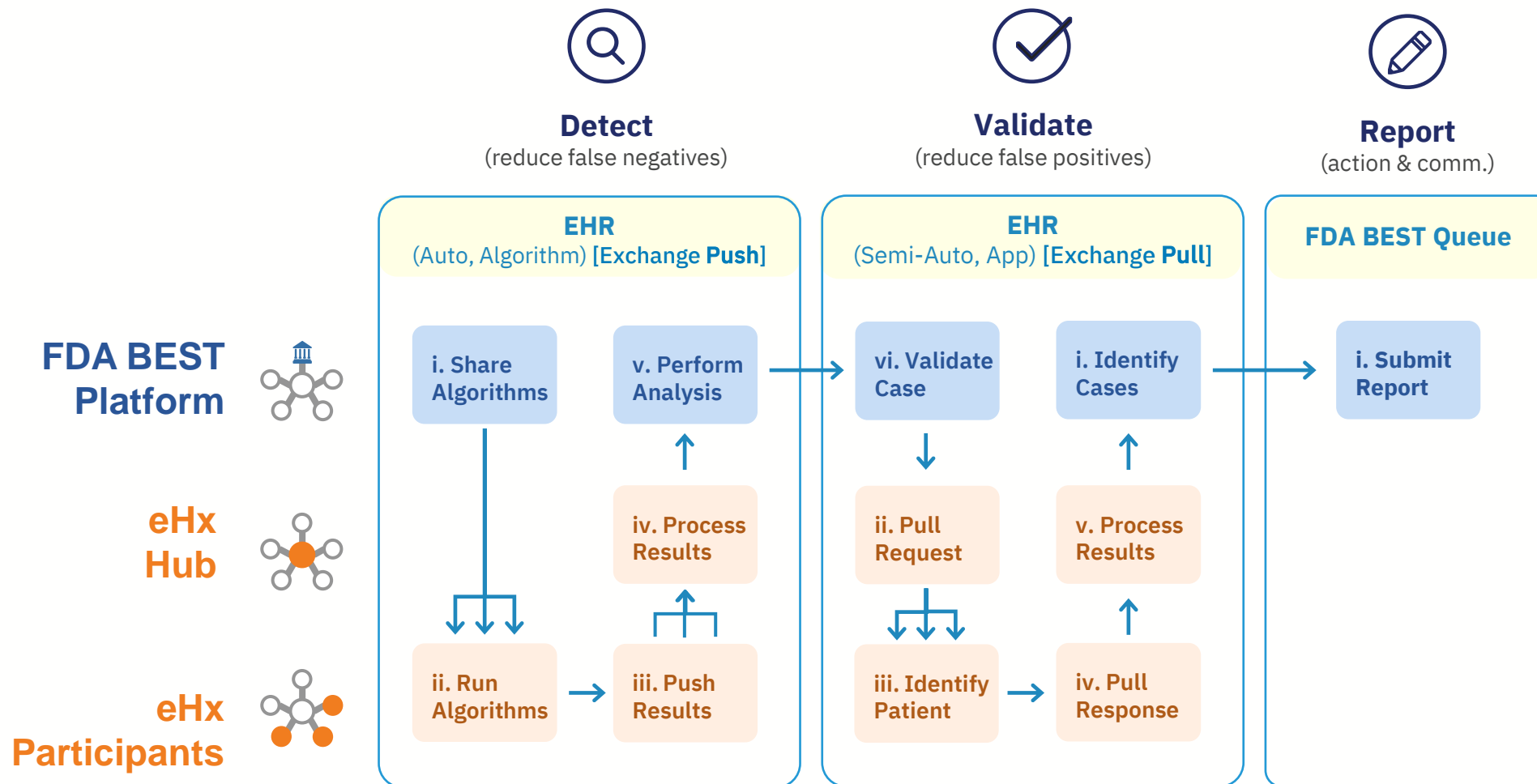**Committed to Improving Patient Care via Data Exchange**

FDA Pilot Announcement
eHx Participant Survey

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FDA will present details on its vaccine safety pilot at the eHealth Exchange annual meeting

What?	**To discuss FDA's upcoming pilot for vaccine adverse event surveillance via eHx**
When?	eHx annual meeting Thursday December 16th from 1:00 PM to 3:00 PM ET
Who?	FDA leaders and supporting IBM technical team members
How?	Using HL7 FHIR to push detected cases and pull cases for validation of vaccine adverse events

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FDA pilot will focus on vaccine adverse event case detection, validation, and reporting

Detect
(reduce false negatives)

Validate
(reduce false positives)

Report
(action & comm.)

FDA BEST Platform

eHx Hub

eHx Participants

Detect — EHR (Auto, Algorithm) [Exchange Push]

- i. Share Algorithms
- v. Perform Analysis
- iv. Process Results
- ii. Run Algorithms
- iii. Push Results

Validate — EHR (Semi-Auto, App) [Exchange Pull]

- vi. Validate Case
- i. Identify Cases
- ii. Pull Request
- v. Process Results
- iii. Identify Patient
- iv. Pull Response

Report — FDA BEST Queue

- i. Submit Report

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In addition to presenting at the annual meeting, FDA will be sharing a survey with prospective pilot participants

1. Who is your EHR vendor?

2. Does your gateway provide access to a FHIR R4 endpoint?

3. Do you utilize the CDC's eCR app for infectious disease reporting (https://www.cdc.gov/ecr/index.html)?

4. Do you participate in the SSA's Health IT program for disability claim adjudication through the eHealthExchange (https://www.ssa.gov/hit/)?

5. Approximately how many patients do you serve annually (patients with at least 1 visit)?

6. What care settings do you operate (e.g., primary care, hospital facilities, urgent care clinics, specialty clinics, ambulatory care)?

7. What states do you serve?

8. Do you have a CQL (Clinical Quality Language) engine installed for CMS quality reporting?

9. Do you have an OMOP (Observational Medical Outcomes Partnership)-converted relational database?

10. What administrative approvals are necessary to participate in this pilot study (note: we have an FDA HIPAA waiver through the DURSA and an HHS IRB waiver)?

11. If participating in a pilot FHIR-based project with eHealth Exchange, what policy or administrative approvals would be required and with what anticipated timeline?

12. Are you interested in learning more about the pilot?

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FHIR Roadmap Highlights

2021 FHIR Inclusive Roadmap Highlights*

FHIR Directory

Upgrade from Argonaut Project FHIR STU 3 to FHIR R4 so EHRs and HIEs can better import participants' connectivity data

*Highlights only (not exhaustive list)
*Market disruptions may change these priorities

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FHIR Interoperability

Participants are and will continue to be at different stages in their ability to support FHIR-based data exchange. The eHealth Exchange approaches FHIR connectivity in multiple ways to enable connectivity with participants across stages

Some Participants support both FHIR Client (retrieve) and Server (provide) capabilities.

Some support FHIR Server functionality only, which includes the ability to accept FHIR writes but not consume data retrieved from a client-based request

Others may not have any FHIR support, but still want to be able to retrieve data that is made available by other Participants' FHIR Servers

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Solving FHIR's Challenges

Challenge	Solution
Establishing Connectivity	eHx implements a FHIR app with each participant and manages client identity so our participants don't have to. This allows for "hub and spoke"-style connectivity rather than point-to-point; saving our participants hundreds of implementation hours
Security and Authorization	eHx authenticates with participants using OAuth2 protocols that establish a trusted relationship and validate resource authorization per-client and transaction
Data Collection and Processing	eHx enables a multi-request framework which allows requestors to receive aggregate data collected from multiple FHIR resources across multiple responders.

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FHIR Approach - Meeting Participants Where They Are

Participants are and will continue to be at different stages in their ability to support FHIR-based data exchange. Therefore we are evaluating functionality that will support a variety of patterns.

- Some Participants may support both FHIR Client and Server capabilities.
- Some may support FHIR Server functionality and the ability to accept FHIR writes - but not be able to initiate FHIR requests.
- Others may not have any FHIR support, but would still want to be able to retrieve data that is made available by other Participants' FHIR Servers.

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Content Validation Update

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Participant Status – Content Testing Update

Out of 280 Participants required to pass Content Testing by May 1, 2021:

- **93% or 260** Participants are @ Content Validated Status as of October 6, 2021
  - Increase from 255 in October 2021
- Content validated logos being added in real time to Participant listing on eHealth Exchange website:
  - https://ehealthexchange.org/participants/ ✓ Content Validated
- **13** technologies leveraged
  - Audacious Inquiry, Cerner CEP, CONNECT, Diameter Health, Epic, Guardian, Health Catalyst, Intersystems, Lightbeam, Mirth, Nextgen, Orion, SSI, Zen Health
- 18 Waivers/Extensions Requested and Approved Remaining
  - Waiver Text was added to all approved Participants

NOTES:

Content testing waiver granted to 12/31/21

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Breakdown of Documents Tested by Meaningful Use Version & Standard

- 22,070 Documents Tested as of November 4, 2021
  - 82% Failing
  - 18% Passing
- Breakdown of Documents Tested by Validator Version
  - 57% or 12,534 tested against the Meaningful Use 2015 Edition/HL7 C-CDA R2.1
  - 12% or 2,709 tested against the Meaningful Use 2014 Edition/HL7 C-CDA R1.1
  - 26% or 5,803 tested against the Meaningful Use 2011 Edition/HL7 C-32
  - 5% or 1,024 tested against the CDA R2 validator

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Data Usability Work Group

Website, Meeting and Workgroup Logistics

- Register for the Workgroup
- Calendar Downloads
- Meeting Notes

https://sequoiaproject.org/interoperability-matters/data-usability-workgroup/

Future Workgroup Calendar Invites to be Pushed & Cadence of meetings changed to 1st & 3rd Thursday November/December

- Meetings for the remainder of 2021
  - November 18, 2021
  - December 2, 2021
  - December 16, 2021
  - Workgroup will go on hiatus for holidays and restart meetings the 2nd & 4th Thursday's starting January 13, 2022

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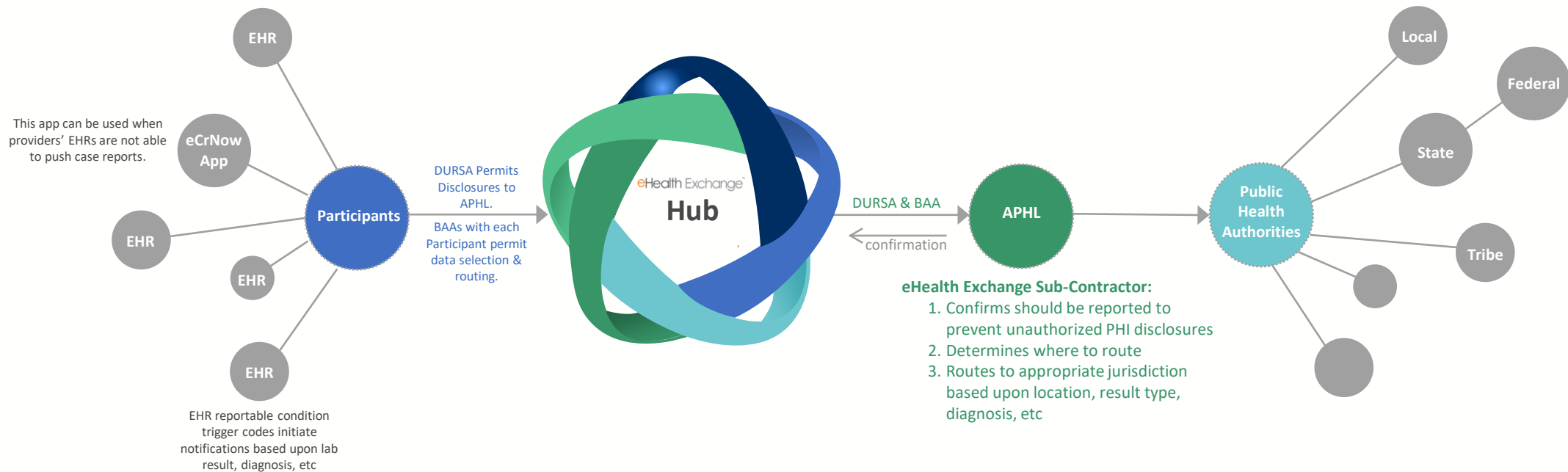
FHIR R4 and Directory Update

Transition to FHIR R4 and Directory Update

- The latest iteration of the FHIR R4 IGs is complete based on changes made in the past 2 months
- Updates to transforms to convert data from existing directories into FHIR R4 are complete. Lantana is expanding on these transforms
- The HAPI FHIR R4 server environment has been updated to accommodate backwards compatible endpoints for those not ready to implement R4. As part of this, Lantana is reverse engineering the transforms noted above to accommodate bi-directional conversion of data from existing directory format to FHIR R4
- We are finishing up work on HAPI, for validating data against the FHIR R4 IGs. We anticipate completing this effort by end of week
- We continue to work with the UI/UX vendor and Lantana on the eHX Participant Self-Service Portal (GUI)

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eCR Update

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Pushing Electronic Case Reports (eCr) is **Live**!

This app can be used when providers' EHRs are not able to push case reports.

EHR

eCrNow App

EHR

EHR

EHR

EHR reportable condition trigger codes initiate notifications based upon lab result, diagnosis, etc

Participants

DURSA Permits Disclosures to APHL.

BAAs with each Participant permit data selection & routing.

Hub
eHealth Exchange

DURSA & BAA

confirmation

APHL

eHealth Exchange Sub-Contractor:
1. Confirms should be reported to prevent unauthorized PHI disclosures
2. Determines where to route
3. Routes to appropriate jurisdiction based upon location, result type, diagnosis, etc

Public Health Authorities

Local

Federal

State

Tribe

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eCR is LIVE!

eCR is live at no additional cost to your organization. To onboard, follow these steps:

1. Confirm your gateway supports ITI-41 & ITI-80.

2. Confirm you have completed Hub Initiator Testing.

3. Notify administrator@ehealthexchange.org your organization wants to push electronic case reports to APHL (Association of Public Health Laboratories).

4. eHealth Exchange will provide an introduction to the AIMS team, as well as an onboarding checklist of about 7 questions.

5. The checklist will ask for your Push Notification Endpoints (aka RR endpoints) for both Val and PRD, as well as your IP addresses for both VAL and PRD.

6. eCR testing is required to be conducted in a VAL environment, so we will need to confirm that your validation certificate is installed and not expired.

7. APHL/AIMS will also provide some needed documentation on their side. Your organization will be asked to join a pre-scheduled cohort call to discuss progress, troubleshooting, and timelines.

8. Once testing is complete in VAL, the functionality will be activated in PRD on a scheduled "go-live" date.

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Certificate Authority Transition Update

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THE END IS HERE!

- **There will be NO ENTRUST Certificates issued even in an emergency situation. The deadline for transitioning certificates to one of the new CA vendors was November 1**

- We are working with several Participants who were unable to make this deadline. Either their trust stores/bundles were not updated or they had not yet responded to our request to begin the certificate transition process

- The HUB is transitioning fully to EMRDirect certificates around the middle of December, so it is imperative that all certs are transitioned otherwise you risk losing interoperability

- We will begin revoking active Entrust certs around mid-December

- If you are currently running an Entrust certificate, please reach out to techsupport@sequoiaproject.org to start the transition process ASAP!

- Direct Trust continues to provide outreach to individual Subscribers to ensure all Participants have their new certificates installed

- We are working on a lessons learned document for this process, so if you have any suggestions going forward, please contact us

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Hub Certificate Update

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Hub Certificate Update

- The Hub's migration from an **Entrust** to an **EMR Direct** end-entity certificate has been completed.
  - The VAL environment migration occurred in late October.
  - The PROD environment migration occurred on Tuesday 11/16 between noon and 2:30p ET.

- After the PROD migration, we determined that a handful of Participants were not configured correctly to accept an **EMR Direct** certificate. We identified and engaged with all of those Participants, and at this time almost all have resolved their configuration issues and are operational.

- The Hub will continue to *accept* **Entrust** certificates until Friday 12/9/2021.

- After Friday 12/9/2021 the Hub will **ONLY** accept connections that present either an **EMR Direct** or **MaxMD** certificate.

Certificate: An electronic document that uses a digital signature to bind a public key and an identity.

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Virtual Annual Meeting

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Virtual Annual Meeting

Virtual Annual eHealth Exchange Meeting

December 16, 2021
1:00 pm – 3:00 pm ET

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Contacts

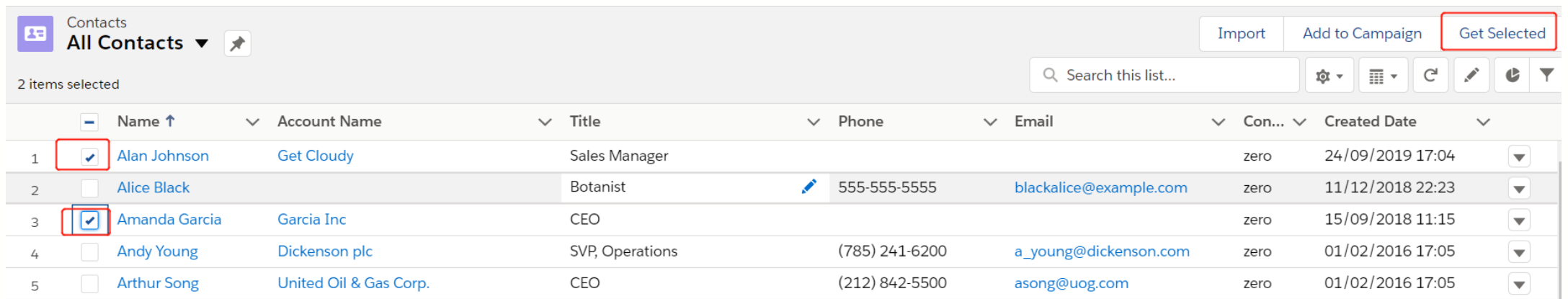Changing and New Contacts

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Contacts for Your Organization

We want to ensure that we are reaching the right people with our communication.

We find out that resources are no longer working in the organization and we send a contact list template to someone in the organization to get an updated contact list.

- If you have had recent or past changes and are unsure if we have an updated list: email administrator@ehealthexchange.org requesting the Contact List Template to complete and return

- The template asks, name, title, phone number, email address and what type of emails the resource should receive

- This will assist eHealth Exchange and each Participant in knowing that the communication we send is received appropriately.

		Name ↑	Account Name	Title	Phone	Email	Con...	Created Date
1	✔	Alan Johnson	Get Cloudy	Sales Manager			zero	24/09/2019 17:04
2		Alice Black		Botanist	555-555-5555	blackalice@example.com	zero	11/12/2018 22:23
3	✔	Amanda Garcia	Garcia Inc	CEO			zero	15/09/2018 11:15
4		Andy Young	Dickenson plc	SVP, Operations	(785) 241-6200	a_young@dickenson.com	zero	01/02/2016 17:05
5		Arthur Song	United Oil & Gas Corp.	CEO	(212) 842-5500	asong@uog.com	zero	01/02/2016 17:05

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Please Engage!

We'd love to hear from you

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Technical Work Group

Thursdays 4-5 ET.

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]

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How might I obtain additional information?

How	When	Where
Visit eHealth Exchange Website	Any time	https://ehealthexchange.org
Monthly Participant Web Meetings	Typically the 3rd Thursday of Each Month at 1 pm ET	https://ehealthexchange.org/events
Weekly Technical Workgroup	Thursdays 4-5 ET	https://ehealthexchange.org/events
Email	Any time if you have a specific question	administrator@ehealthexchange.org
Annual Meeting	December16, 2021 1-3 pm ET	https://ehealthexchange.org/events

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How might I obtain assistance?

How	Who	Where
Certificates	Direct Trust Support	support@directtrust.zohodesk.com
Hub and Hub Dashboard Assistance	Hub Service Desk	servicedesk@hub.ehealthexchange.org
Directory Assistance, setup, changes	Tech Support	techsupport@sequioaproject.org
Testing Questions	Testing Team	testing@ehealthexchange.org
Questions about DURSA/OPP's	Administrator	administrator@ehealthexchange.org

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Questions & Answers

Please e-mail questions or concerns to
administrator@ehealthexchange.org

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