Data Exchange Framework

Technical Advisory Committee (TAC) Meeting #3D: Event Notification Architecture

Thursday, September 18, 2025

12:00 PM – 1:00 PM PT

Members are strongly encouraged to **enable their video** to foster increased interaction and discussion.

CalHHS

The Vision for Data Exchange in California

Every Californian, no matter where they live, should be able to walk into a doctor's office, a county social services agency, or an emergency room and be assured that their health and social services providers can access the information they need to provide safe, effective, whole-person care—while keeping their data private and secure.

California's Data Exchange Framework (DxF) will help achieve this vision and improve care for all Californians by enabling statewide, secure data exchange between health and social services providers.

Agenda

12:00 PM
Welcome & Roll Call

12:05 PM
What We Heard Last Meeting

12:20 PM
Characteristics of Event Notification Architecture

12:50 PM
Public Comment

12:55 PM
Next Steps and Closing Remarks

Public Comment Opportunities

Public comment will be taken during the meeting at the approximate time listed on the agenda and limited to the total amount of time allocated for public comment.

Members of the public may also use the Zoom's Q&A feature to ask questions or make comments during the meeting, or can email their questions or comments to dxf@HCAI.ca.gov.

Event Notification Architecture TAC Members

Members are strongly encouraged to **enable their video** to foster increased interaction and discussion.

Name	Organization
Rim Cothren (Chair)	Data Exchange Framework
Cindy Bero	Manatt Health Strategies
Danielle Friend	Electronic Health Record Association (EHRA)
David McCann	United Ways of California 211 DXF Collaborative
Demetrio Cardenas	Via Care
Dr. Brian Thomas	Alameda County
Eric Jahn	Bitfocus
Eric Nielson	California Welfare Director's Association (CWDA)
Gregg Smith McCurdy	Hill Physicians Medical Group
Irene Lintag Alvarez	Aliados Health
Joe Sullivan	Emergency Service Medical Authority (EMSA)
John Roszkowiak	CenCal Health

Name	Organization
Julie Silas	Homebase
Ken Riomales	California Mental Health Services Authority (CalMHSA)
Mani Nair	Blue Shield of California
Marta Galan	California Department of Social Services (CDSS)
Michael Marchant	Sutter Health
Ray Duncan	Cedars-Sinai Health System
Robin Roberts	Point Click Care
Tamara Hennessy-Burt	California Department of Public Health (CDPH)
Tim Polsinelli	Manifest Medex
Uma Chandavarkar, MD, MHA	California Department of Healthcare Services (DHCS)
Vishaun Lekraj	Kaiser Permanente

Event Notification Architecture TAC Series Objective

The objective of this meeting series is to **develop recommendations for an architecture for statewide event notification under the DxF**.

What We Heard Last Meeting

- Requests for Notifications should include **more information than the individuals' identities**; information about the requesting organization, its participation in a program, its relationship to each individual, and the purpose for use should be included.
- **Matching of Events to Requests is a heavy burden**; the architecture must consider where that burden lies.
- The architecture should **minimize the PII/PHI that is shared upstream** of the Event.
- An **Event may initiate more information exchange**; a Notification should include the minimum information necessary for a Recipient to initiate that additional exchange.
- DxF should **establish the minimum information that mut be included in a Notification**; potentially different minimums for different types of Recipient organizations.
- The architecture should **minimize the number of places and number of times** to which Recipients need to send Requests and Sources need to send Events.
- No clear preference for node organization emerged: some preferred **geographical/county organization**, some preferred **organization by use case**.
- Architecture should be responsive to market demands and should **support differences in use case maturity**.

Event Notification Architecture Characteristics

- The architecture includes **multiple Nodes**
- Each Node is an **intermediary that must have five capabilities**:
  1. receive Requests for Notifications from Recipients,
  2. receive Events in real time from Sources,
  3. communicate with other Nodes about a received Event in real time,
  4. match Events to Requests in real time, and
  5. send Notifications to Recipients in real time.
- Each Node **must identify the health and/or social service segment(s) it serves**
  - E.g., medical/clinical, social services, justice-involved
  - Any Node may serve one, more than one, or all segments.
- Each Node **will coordinate with all other Nodes serving that segment**
- Each Node may elect to serve Participants **locally, regionally, or statewide**, but must still coordinate with all other Nodes serving that segment statewide

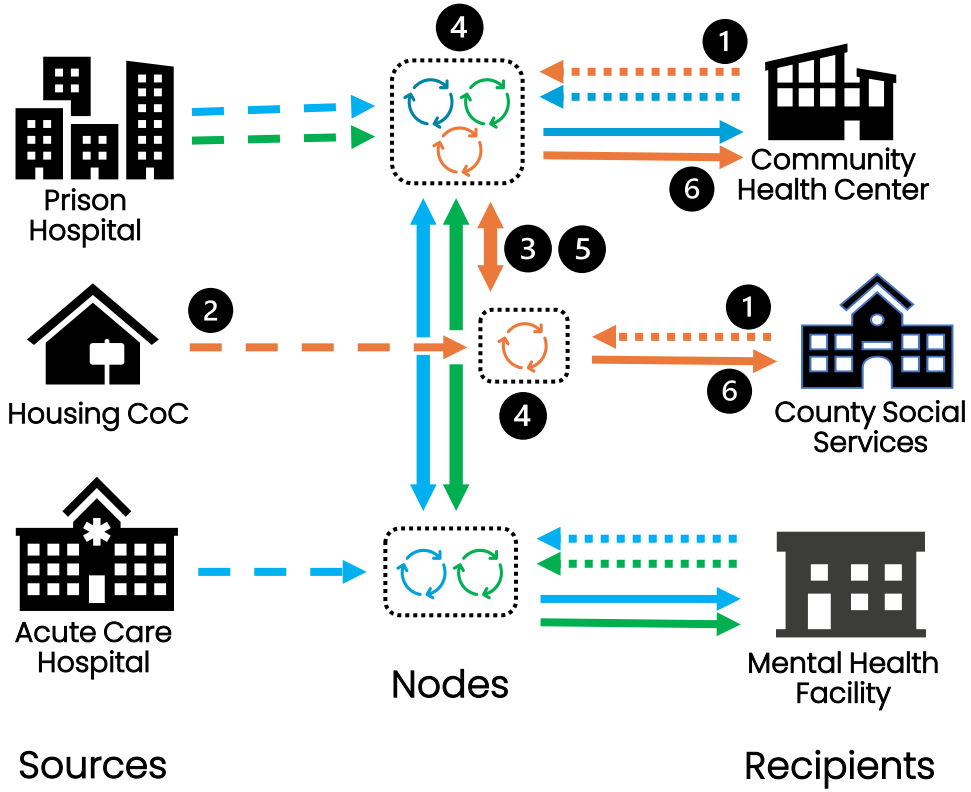
An architecture organized by health and social service segment can optimize support for each segment as its use cases and capabilities evolve.

Event Notification Architecture Characteristics

- **Recipients submit Requests for Notifications to the Node(s)** of their choice.
- Requests must communicate:
  - **Name of the Recipient** organization
  - **Type of the Recipient** organization
  - **Type of Events** for which to be notified
  - **Identifiers** for individuals for whom Request are being made
  - **Relationship** to the individual and **purpose for use** of the Notification
- Requests **must be updated** from time to time; without updates, requests will expire.
- **Sources send Events in real-time to the Node(s)** of their choice.
- Upon receiving an Event, the Node must **alert all other Nodes serving the same segment of the Event in real time**.
  - Alerts include **person attributes** for the individual in the Event to allow other Nodes to match against Requests.
- Each Node must **match the person attributes in real-time against Requests** received from its Recipients.
  - **Matches are communicated to the Node**, including the **requesting Recipient name, organization type, relationship to the individual, and purpose for use**.
- Upon receiving communication of a match, the **Node must share the Event with matching Nodes**, considering organization type, relationship, and purpose for use.

Quality of service (e.g., matching accuracy, timeliness, notification methods) offered by Node(s) will be experienced by the Recipient of Notifications.

Event Notification Architecture Characteristics



1. Recipients send Requests to a Node who serves their geography and segment(s), updating requests over time
2. Sources send Events to a Node that serves their geography and segment(s)
3. Nodes communicate person attributes of received Events with all Nodes in the segment
4. Nodes match the person attributes to individuals on Requests, returning organization name and type, relationship, and purpose for use for each match
5. Nodes send Events to Nodes with matches
6. Nodes send Notifications to Recipients who Requested Events for the matched individuals

DATA EXCHANGE FRAMEWORK

Public Comment

Next Steps

The DxF Team will:

- Post meeting materials and recording to the DxF webpage.
- Summarize TAC event notification architecture meeting series for HCAI.

Thank You!

Appendix

Key Terms in this Series

Term	Description
Event	A significant change in an individual's status—currently defined as an Admission or Discharge from a Hospital, Emergency Department, or Skilled Nursing Facility.
Event Service	The application or technology responsible for receiving Events from Sources and forwarding the Event to the appropriate Notification Service.
Node	An entity or technology that receives Events from Sources and/or sends Notifications to Recipients.
Notification	Communication of an Event sent to a Recipient for Individuals requested by the Recipient.
Notification Service	The application or technology responsible for communicating Events to Notification Recipients that have made a Request for Notifications.
Person Matching	The process by which an Event is matched to a Request for Notifications, such as a roster, to identify which Recipient(s) should receive Notifications.
Recipient	A DxF Participant who wishes to receive timely Event Notifications associated with the Individuals they serve.
Request for Notifications	A request submitted by a Recipient to a Notification Service requesting Notifications, such as a roster of individuals.
Source	The DxF Participant at which an Event occurs and who initiates the notification process - currently a Hospital, Emergency Department, or Skilled Nursing Facility.