

# Data Exchange Framework

## 2024 Standards Committee Meeting #4

Thursday, November 21, 2024

12:00 PM – 1:00 PM PT



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



# The Vision for Data Exchange in California

Once implemented across California, the Data Exchange Framework (DxF) will create new connections and efficiencies between health and social services providers, improving whole-person care.

The DxF is California's first-ever statewide Data Sharing Agreement (DSA) that requires the secure and appropriate exchange of health and human services information to enable providers to work together and improve an individual's health and wellbeing.



# Agenda



**12:00 PM**  
Welcome



**12:05 PM**  
Discussion: What We Heard in Meeting #3



**12:15 PM**  
Discussion: Content Standards for Events



**12:25 PM**  
Discussion: Transport Standards for Notifications and Events



**12:50 PM**  
Public Comment



**12:55 PM**  
Next Steps

# 2024 Standards Committee Members

Name	Organization
Rim Cothren (Chair)	Center for Data Insights and Innovation
Ray Duncan	Cedars-Sinai Health System
Jonathon Feit	Beyond Lucid Technologies, Inc
Danielle Friend	EHRA
Evelyn Gallego	EMI Advisors
Dave Green	PointClickCare
John Helvey	SacValley MedShare
Sheljina Ibrahim Kutty	Elevance Health
Mani Nair	Blue Shield of California
Tim Polsinelli	Manifest MedEx
Ken Riomales	CalMHSA

# 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@chhs.ca.gov](mailto:DxF@chhs.ca.gov).

# What We Heard in Meeting #3



# What We Heard on October 28, 2024

- Notifications should include essential data points: who, what, where, when and why.
- Notifications must contain **Core Data** (e.g., patient identity, type of event, facility, and time). **Other Data** (e.g., diagnosis) must be shared if known.
- Facilities (or their intermediaries) must be capable of producing notifications that include both HL7 v2.5.1 ADT machine-readable and human-readable components.
- Notifications must contain contact information for a professional involved in the individual's care. The role of that professional may be selected at the discretion of the facility.
- Notifications should align with applicable privacy requirements.



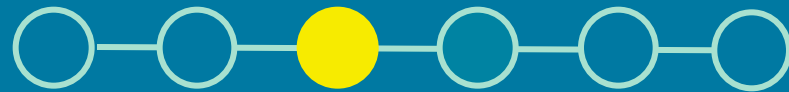
Does that sound right? What did we miss?

# Proposal for Notification Content

Core Data	Supports	HL7 v2.5.1	Human Readable
Date and time of notification		Required	Required
Organization/facility sending the notification		Required	Required
Date and time of event	When	Required	Required
Type of event	What	Required	Required
Facility ID and name where event occurred	Where	Required	Required
Identity of Individual (per DxF P&P)	Who	Required	Required
Other Data			
Admission date	When	If known	If known
Admission type	Why	If known	If known
Reason for admission	Why	If known	If known
Care professional's name	Who	If known	If known
Discharge disposition	Where	If known	If known
Discharge date	When	If known	If known
Diagnosis code and description	Why	If known	If known
Insurance company, type, group, and ID	Who	If known	If known



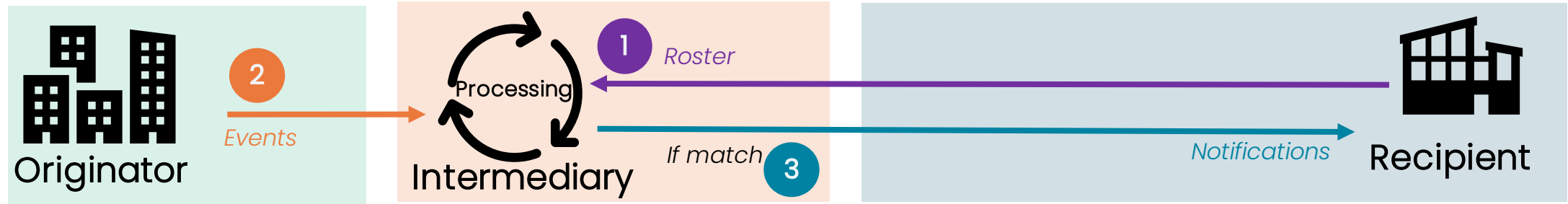
# Content Standards for



# Aligning on Terminology

- **Recipient:** An organization seeking to receive Notifications of Events for Individuals with whom they have a relationship.
- **Roster:** Developed by a Recipient, a list of Individuals for whom the Recipient would like to receive Notifications. The Roster may be updated from time to time.
- **Originator:** The Originator is the source of Events that Recipients request to be notified of. Events will often occur at an Originator's facilities.
- **Event:** An encounter, transition, or other change in status that significantly impacts an Individual's health, or the transaction automatically generated by an EHR or other system upon such a change in status.
- **Intermediary:** An organization that receives Events from an Originator, matches Event to Individuals on Recipient Rosters and, sends Notification(s) to Recipient(s) in real-time.
- **Notification:** The transaction sent to the Recipient(s), making them aware of the Event.

# Basic Event Notification Data Flow



For today's discussion, we are considering the technical content standard(s) for step **2**, communication of an Event from the Originator to an Intermediary selected by the Originator to match the Event to Rosters and communicate Notifications to requesting DxF Participants.

# For Discussion: Content Standard for Events



- Should DxF specify a minimum technical standard or leave the specification up to each intermediary?

*If a standard should be specified:*

- Is the minimum standard an HL7 v2.5.1 ADT?
- Does it include data elements specified for notifications?  
Are additional elements required?
- Does it include A01, A03, A12, and A13 (admission, discharge, and cancellations) or other message types?

# Transport Standards for Notifications and Events



# Considerations for Notification Transport

- Must allow for machine-readable HL7 v2 ADT messages and human-readable notifications.
- Must consider varying levels of sophistication and the differing HIPAA status of recipients.
  - Not all recipients may be able to receive and process HL7 messages.
  - Not all recipients may be able to obtain a DirectTrust-accredited address.
- Must be implemented by:
  - Facilities that have chosen to use their own technology, and
  - Intermediaries that provide notifications on behalf of facilities.
- Potential mechanisms for HL7 messages:
  - Point-to-point connection via HTTPS or VPN
  - Attachment to a Direct secure message
- Potential mechanisms for human-readable content:
  - Portal with an SMS or email alert to check for new events
  - Body of a Direct secure message

There may be many more choices. What is the minimum standard required for all facilities and intermediaries?

# For Discussion: Transport Standard for Notifications



- Should all facilities using their own technology and intermediaries be required to transmit HL7 v2.5.1 ADT messages via HTTPS or VPN?
- Should all facilities using their own technology and intermediaries be required to establish a portal for human readable content with SMS or email messages alerting participants to check for new events?

# Considerations for Event Transport

- Consider aligning this transport requirement for events with the machine-readable requirement for notifications.
- Must accommodate machine-readable HL7 v2 ADT messages as well as human-readable notifications
- Must be implemented by:
  - Facilities that send events to an intermediary that provides notifications on their behalf, and
  - Intermediaries who receive these events to provide notifications on behalf of facilities.
- Potential mechanisms for HL7 messages:
  - Point-to-point connection via HTTPS or VPN



# For Discussion: Transport Standard for Events



- Should DxF specify a minimum technical standard or leave the specification up to each intermediary?

*If a standard should be specified:*

- Should all facilities using an intermediary and all intermediaries be required to be able to send/receive an HL7 v2.5.1 ADT message via HTTPS or VPN?

# Public Comment



# Public Comment

- Members of the public must “raise their hand” and Zoom facilitators will unmute each member of the public for them to share comments.
- The Chair will call on individuals in the order in which their hands were raised.
- Individuals will be recognized for up to two minutes and are asked to state their name and organizational affiliation at the start of their remarks.

## Logged into Zoom

If you logged on via [Zoom interface](#)

Press “Raise Hand” in the “Reactions” button on the screen

If selected to share your comment, you will receive a request to “unmute;” please ensure you accept before speaking

## Phone Only

If you logged on via [phone-only](#)

Press “\*9” on your phone to “raise your hand”

Listen for your phone number to be called by the moderator

If selected to share your comment, please ensure you are “unmuted” on your phone by pressing “\*6”

# Next Steps



# Upcoming Meetings

Standards Committee	Date
Meeting #5	Monday, December 2, 2024, 12:00 PM – 1:00 PM PT
Meeting #6 ( <i>if necessary</i> )	Thursday, December 19, 2024, 12:00 PM – 1:00 PM PT

Note: Additional Committee meetings may be scheduled, if required.  
Meeting information will be posted to the CDII DxF web page once confirmed.