CalHHS Data Exchange Framework
2024 Standards Committee Recommendations

Date(s): October 18, 2024 – December 2, 2024

Topic: Content and Transport Standards for Events and Notifications

Attendance

Facilitators: Rim Cothren

Committee Members (in attendance): Ray Duncan, Jonathon Feit, Danielle Friend, Evelyn Gallego, Dave Green, John Helvey, Sheljina Ibrahim Kutty, Mani Nair, Tim Polsinelli, Ken Riomales

The following recommendations were summarized by the Facilitator as the consensus of Committee Members and do not represent HCAI's analysis or actions concerning these recommendations.

1. **Notifications must include machine-readable and human-readable components.**

   Given that many Participants may not have a system of record capable of ingesting machine-readable transactions, the Committee recommends notifications include:

   - A machine-readable component that may be added to the Individual's record and that can be consumed as structured data, and

   - A human-readable component that can be viewed by the receiving Participant if their system cannot consume machine-readable content.

2. **Notifications must include essential event information about an event that answers the basic questions of who, where, what, why, and when.**

   A list of the recommended required event information that must be included in a notification is included at the end of this document. Receiving Participants can follow up with a Request for Information if/when more information concerning the event is necessary or desired.

3. **Use HL7 v2.5.1 ADT messages as the minimum content standard for machine-readable notifications.**

   - A01 (admission), A03 (discharge) and A04 (registration) messages should be required to inform Participants of admissions and discharges to a hospital, ED, or SNF.

     The Committee noted that A04 (registration) messages are often used by EDs rather than A01 (admission) messages.

   - A02 (transfer), A08 (update), and A12/A13 (cancel) messages should be optional and sent only if desired by the Participant requesting notifications.

     Some Committee members believed that A08 (update) messages should be recommended (rather than simply optional) in any subsequent policy statement if sent only when desired by the Participant requesting notifications.

4. **Use HTTPS or VPN as the minimum for securing transport for machine-readable notifications.**

   Hospitals, EDs, SNFs, and intermediaries participating in notifications must, at a minimum, support HTTPS or VPN transport for sending machine-readable notifications to the recipient. Sending facilities and their intermediaries may use other transport methods if agreed to by the recipient.

   The Committee did not recommend requiring any technical transport standard, allowing industry to select among common standards.

5. **Human-readable notifications must contain all of the essential event information.**

   The essential event information about an event must be available as human-readable text. See the list of the recommended required event information at the end of this document for what must be included in a human-readable notification.

6. **Human-readable notifications must be made available to recipients via real-time electronic means without requiring the recipient to adopt custom technologies.**

While no single standard is recommended, human-readable notifications must be offered in real-time via secure solutions that do not require the recipient to adopt custom technologies. Examples might include: attachments to DIRECT messages, portal-based access with accompanying SMS or email alerts to the notification's arrival, etc.

7. **Use HL7 v2.5.1 ADT messages as the minimum standard for the events hospitals, EDs, and SNFs send to intermediaries.**

   - A01 (admission), A03 (discharge) and A04 (registration) messages should be required.

   - A02 (transfer), A08(update), and A12/A13 (cancel) messages should be optional if desired by the intermediary.
     Some Committee members believed that A08 (update) messages should be recommended (rather than simply optional) in any subsequent policy statement if sent only when desired by the intermediary.

8. **Use HTTPS or VPN as the minimum mechanisms for securing transport for the events hospitals, emergency departments, and SNFs send to intermediaries.**
   Hospitals, EDs, and SNFs must support sending HL7 v2.5.1 ADT messages to intermediaries via HTTPS or VPN. Intermediaries participating in notifications must support receiving HL7 v2.5.1 ADT messages via HTTPS or VPN. Parties may use other transport methods if agreed to by both parties.
   The Committee did not recommend requiring any technical transport standard, allowing industry to select among common standards.

Recommended Minimum Event Information

Element	Required	What?	When?	Who?	Where?	Why?
Date and time of message	X					
Organization/facility sending the message	X					
Date and time of event	X		X			
Type of event	X	X				
Facility ID and name where event occurred	X				X	
Identity of subject of event (per DxF P&P)	X			X		
Admission date	If known		X			
Admission type	If known					X
Reason for admission	If known					X
Care professional's name	If known			X		
Discharge disposition	If known	X				
Discharge date	If known		X			
Diagnosis code and description	If known					X
Insurance company, type, group, and ID	If known			X		