Use Cases

The use cases outlined below are intended to provide additional context and frame the needs that the candidate standards must meet. The use cases here are summarized and excerpted from a discussion document of the HL7 v3 pan-Canadian Messaging Standards Implementation Guide (Volume 10 – Immunization).

The use cases identify different activities related to immunization events and access to an immunization record:

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UC-1 Record an Immunization Event

The purpose of this use case is to describe the activities involved in recording an immunization event.

Trigger: Immunization has been administered

- A healthcare provider administers a vaccine to a patient.
- The healthcare provider records the vaccination event in the local EMR System
- The EMR sends a request to add the immunization event details to the repository.
- The event is recorded in the repository and the message is acknowledged.

(The above flow represents a successful transaction, alternate flows exist.)

UC-2 Query an Immunization Repository

The purpose of this use case is to describe the activities involved in retrieving immunization records for a patient from a repository.

Trigger: Immunization information for a patient needs to be retrieved from an immunization repository.

- A user of an EMR (or other client system) requests detailed information about a patient's immunization history, potentially filtered by:
    - time-range of the immunization,
    - time-range the immunization was last updated, and/or
    - type of immunization.
- The EMR sends the query to the repository.
- The repository returns the requested list of past immunization events.

(The above flow represents a successful transaction, alternate flows exist.)

UC-3 Update an Immunization Record

The purpose of this use case is to describe the activities involved in updating an immunization event.

Trigger: A healthcare provider needs to add additional information related to an immunization event to a record.

- Healthcare provider wishes to update information related to a vaccination event:
    - additional information in the textual comment,
    - add/change the vaccine dose number, and/or
    - mark the immunization course as complete.
- The healthcare provider records the vaccination event in the local EMR System
- The EMR sends a request to update the immunization event details in the repository.
- The update is recorded in the repository and the message is acknowledged.

(The above flow represents a successful transaction, alternate flows exist.)

UC-4 Retract an Immunization Record

The purpose of this use case is to describe the activities involved in retracting an erroneous immunization event.

Trigger: A healthcare provider identifies an erroneous immunization record.

- Healthcare provider wishes to remove an erroneous immunization event from the patient's record.
- The erroneous information is removed (or flagged as removed) in the local EMR system.
- The EMR sends a request to remove the immunization event from the repository.
- The record is removed (or flagged as removed) in the repository and the message is acknowledged.

(The above flow represents a successful transaction, alternate flows exist.)