Update patient demographic record workflow

Overview
Description: This transaction allows the Point-of-Service (PoS) systems to update a patient record in the client registry. The following sequence diagram show the steps involved.

Sponsor: Shaun Grannis (in collaboration with the Client Registry community)
Status: In Progress

Referenced Standards and APIs:
- ADT^A08 - IHE ITI-8 Transactions

Assumptions and prerequisites
- The Point-of-Service system is a trusted application known by the HIE and it is registered with the interoperability layer to be able to send and receive data securely (Common message security workflow).
- The Patient to be updated is assumed to already exist in the Client Registry.

Actors
- PoS - The point of care system that captures patient identifiers, is responsible for sending the identifiers to the HIE.
- IL - Mediates the transactions between the PoS system and the Client Registry.
- CR - Manages patient demographics and identifier details.

Notice
The official version of the OHIE workflows can be found in the OpenHIE Architecture Specification.
## Technical details

<table>
<thead>
<tr>
<th>Ref</th>
<th>Interaction</th>
<th>Endpoint</th>
<th>Data</th>
<th>Transaction Specification</th>
</tr>
</thead>
</table>
| 1   | Update patient               | IL       | The format of the message is specified by the ITI-8 IHE PIX v2 transaction and takes the form of an HL7v2.3.1 A08 message. The message may include both identifiers and demographic attributes for the patient to be updated. | PIF ITI-8
transaction
ADT^A08
Patient Identity Feed IHE ITI-8 Transactions |
| 2   | Update patient               | CR       | The message from the Point-of-Service system is passed directly through to the CR by the IL. | PIF ITI-8
transaction
ADT^A08
Patient Identity Feed IHE ITI-8 Transactions |
| 3   | Acknowledge patient updated  | IL       | The response message is an HL7 ACK. See ITI TF-2x: C.2.3, "Acknowledgment Modes" for definition and discussion of the ACK message. | PIF ITI-8
transactions HL7 ACK
Patient Identity Feed IHE ITI-8 Transactions |
| 4   | Acknowledge patient updated  | PoS      | The message from the CR is passed directly through to the PoS by the IL. | PIF ITI-8
transactions HL7 ACK
Patient Identity Feed IHE ITI-8 Transactions |