Update patient demographic record workflow

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

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.

Update Patient Demographic Record

![Sequence diagram of the Update patient demographic record workflow](websequencediagrams.com)
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.

The message from the Point-of-Service system is passed directly through to the CR by the 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.

The message from the CR is passed directly through to the PoS by the IL.