



OHIT Whiteboarding Session 2

January 10, 2012

INTERSYSTEMS

Agenda

- ▶ Introduction and Purpose
- ▶ Review Use Case 1 & 2
- ▶ IHE Overview
- ▶ Review IHE Workflows for Use Case 1 & 2
- ▶ Questions/Comments



Use Case 1: Emergency Room

- ▶ Patient arrives at the ER.
- ▶ Patient is identified in the Master Patient Index (MPI).
- ▶ The patient identifier is automatically sent to the Record Locator Service (RLS) .
- ▶ The RLS returns all discovered patient records to
 - The ER's EMR (when an interface exists to that EMR) or
 - To a special Web-based secure viewer supplied by InterSystems Corporation.
- ▶ The ER staff then act on the information provided to serve the patient.



Use Case 2: Specialist Referral

- ▶ Provider decides to refer a patient to a specialist.
- ▶ Provider picks the specialist for the referral.
- ▶ Provider schedules the referral with the patient.
- ▶ Provider optionally sends data from provider's EMR to the specialist using the ILHIE.
 - Referral data is integrated into the specialist's EMR.
- ▶ Patient arrives at the specialist.
- ▶ Specialist may optionally request more data on the patient via the RLS
 - Data is returned to the specialist via specialist's EMR or InterSystems secure viewer.
- ▶ Specialist serves the patient.
- ▶ Specialist sends a summary of the encounter back to the referring provider.

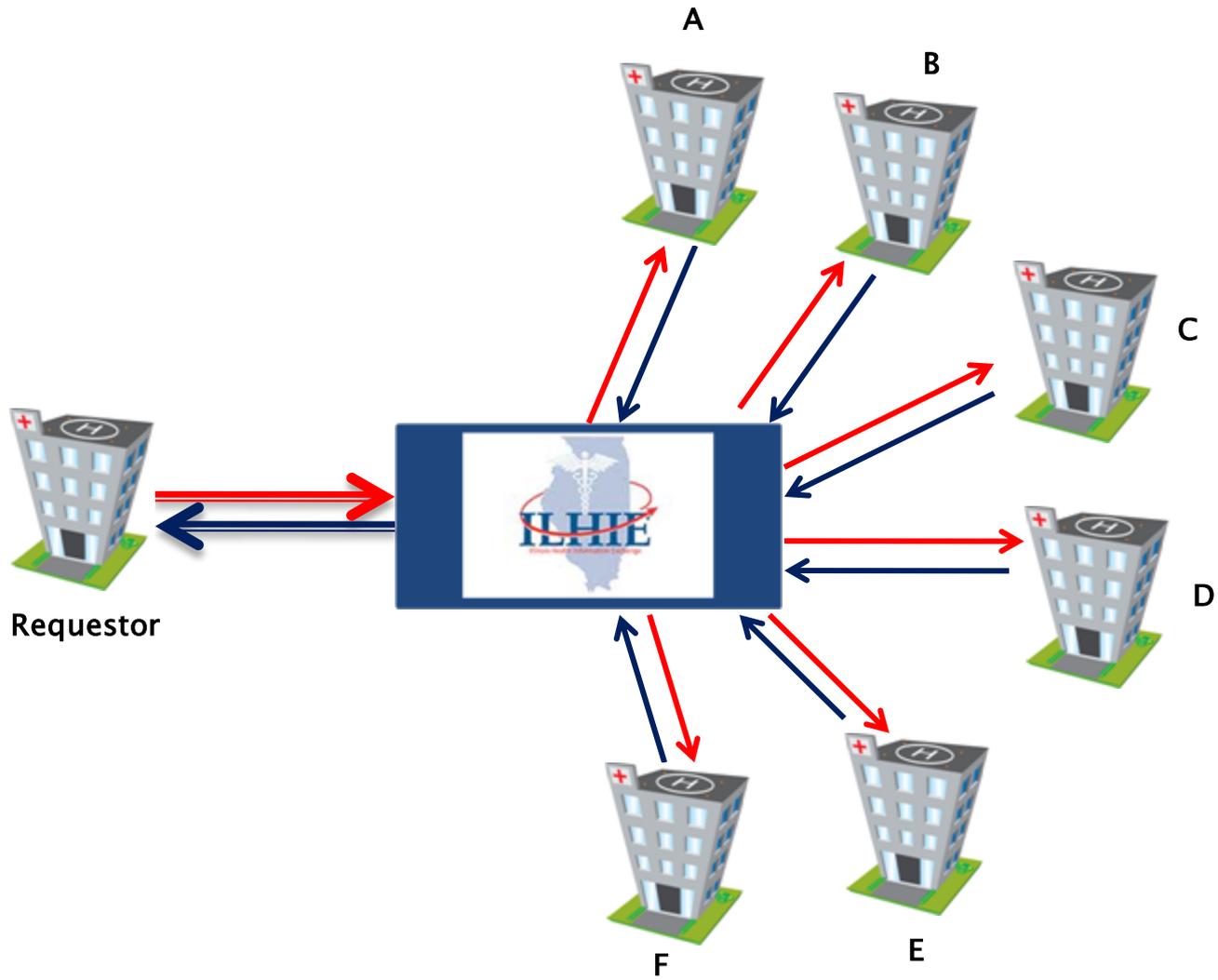


Why IHE?

- ▶ **Integrating the Healthcare Enterprise (IHE)**
 - It promotes open standards such as HITSP (<http://wiki.hitsp.org/docs/C32/C32-1.html>), HL7v3 and Web Technologies
 - IHE refines interface specifications using these established standards
 - IHE is an international effort to enable health information exchange
 - IHE is integrating all of a patient's clinical information (i.e. full patient summary)
- ▶ **IHE Technical Framework – IT Infrastructure**
 - http://www.ihe.net/Technical_Framework/index.cfm



ILHIE



IHE Workflow I – Building ILHIE MPI

▶ Goal

To build patient MPI and maintain patient MPIIDs in ILHIE IHE Community

▶ IHE Integration Profile Transactions

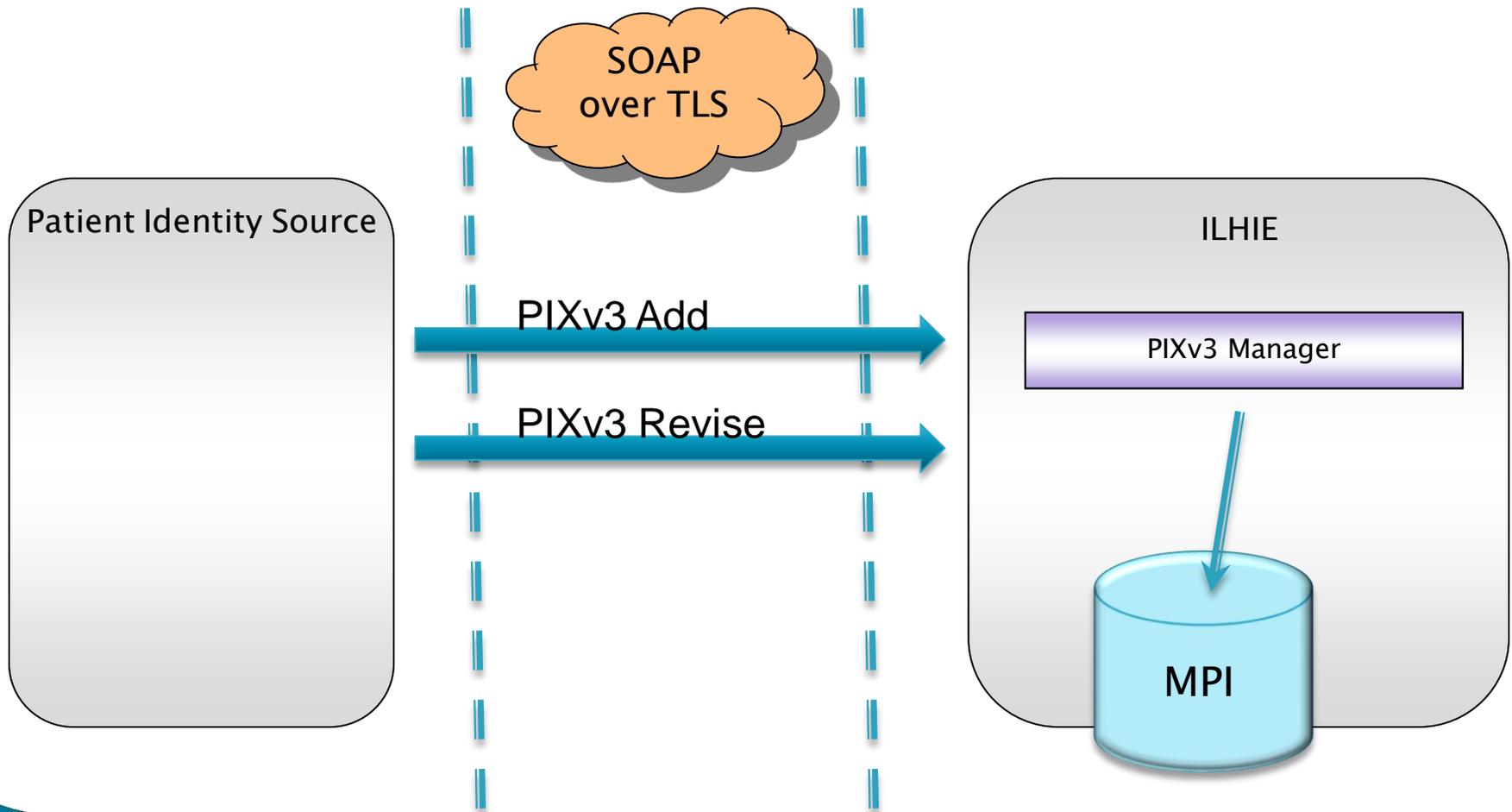
- PIXv3 Patient Add
- PIXv3 Patient Revise

▶ Triggering Events

- New patient registration at Patient Identity Source
- Patient demographic update at Patient Identity Source



Workflow I – Building ILHIE MPI



Workflow II – Getting OnDemand Consolidated C32 from ILHIE

▶ Goal

For partner to identify a patient in ILHIE by ILHIE MPIID and then get patient consolidated C32 by BTG (Emergency Room Use Case)

▶ IHE Integration Profile Transactions

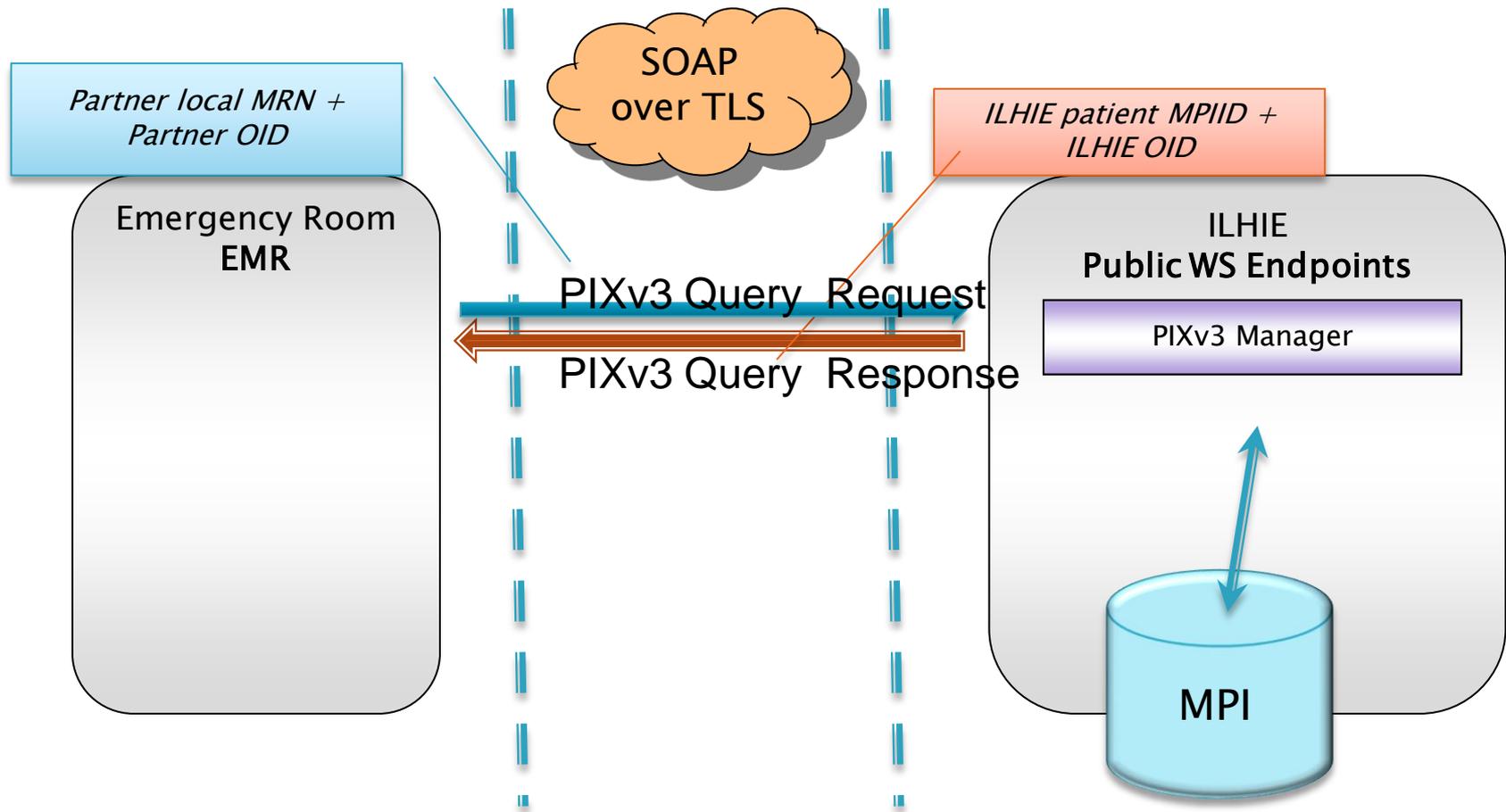
- PIXv3 Query
- XDSb RegistryStoredQuery
- XDSb RetrieveDocumentSet

▶ Triggering Events

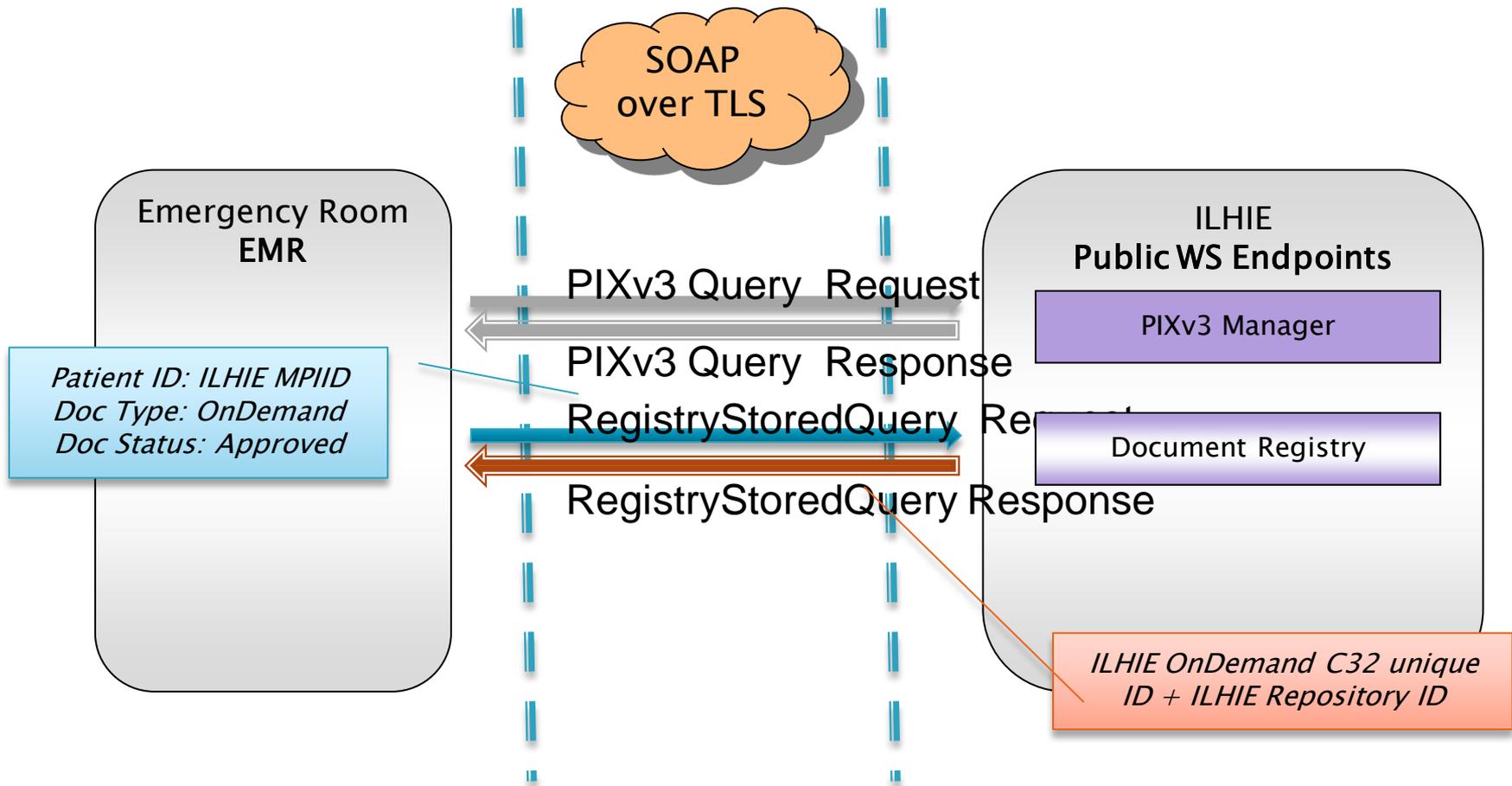
- Patient admitted to ER



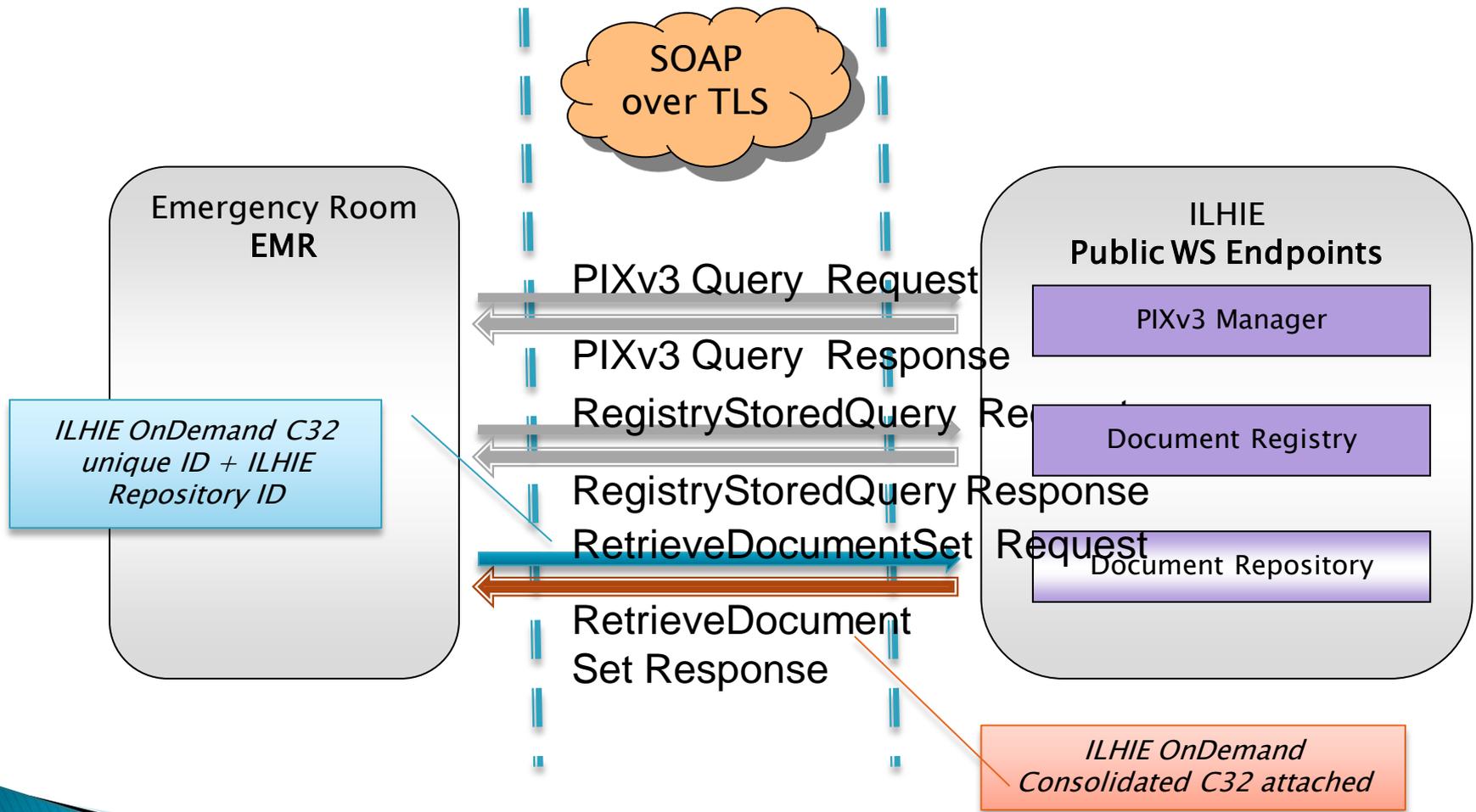
Workflow II – Getting OnDemand Consolidated C32 from ILHIE



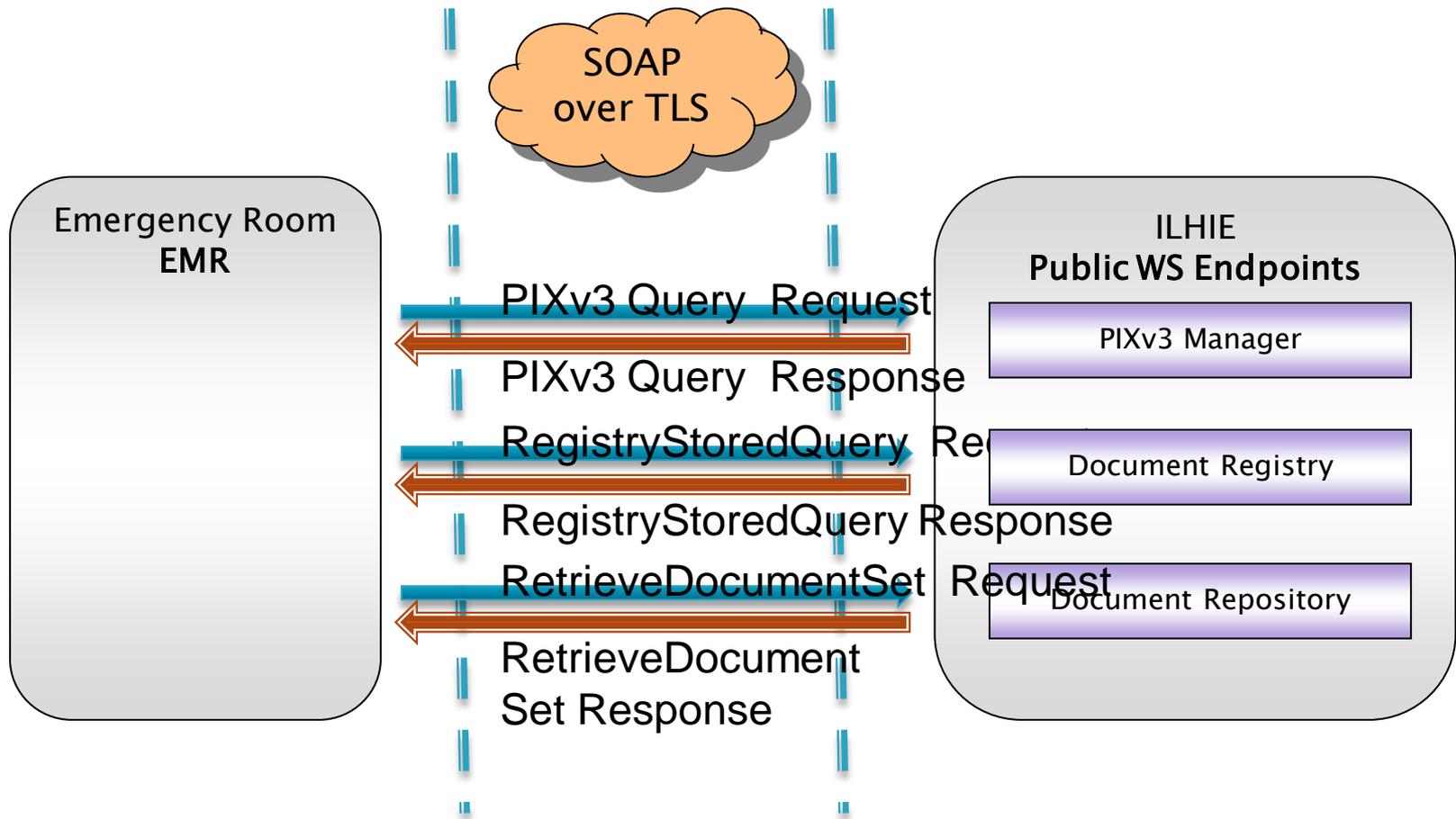
Workflow II – Getting OnDemand Consolidated C32 from ILHIE



Workflow II – Getting OnDemand Consolidated C32 from ILHIE



Workflow II – Getting OnDemand Consolidated C32 from ILHIE



Workflow III – ILHIE Requesting OnDemand C32 from Partner

▶ Goal

For ILHIE to request OnDemand patient C32s from partners. Partner C32s will then be consolidated to generate ILHIE's OnDemand C32

▶ IHE Integration Profile Transactions

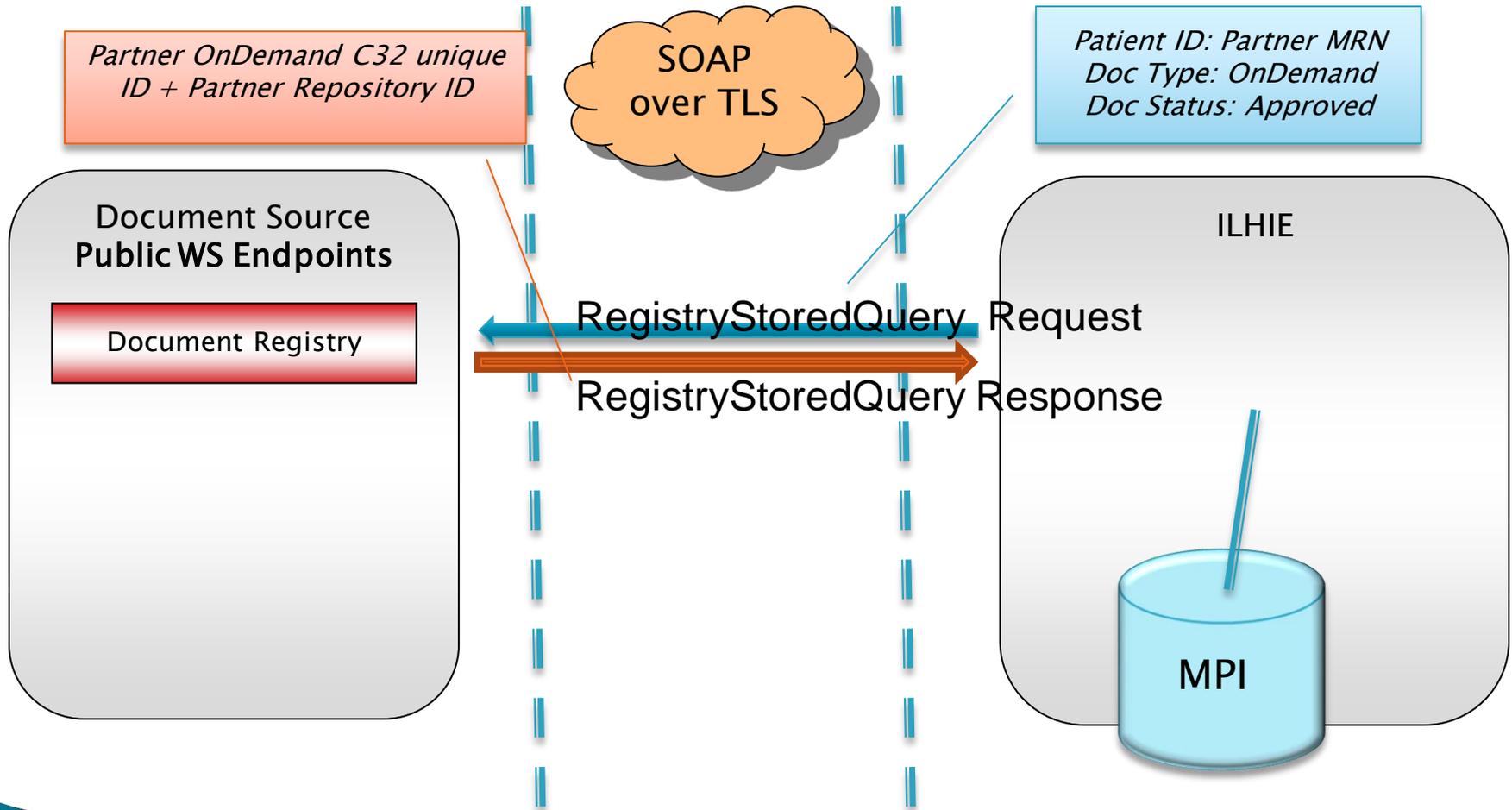
- XDSb RegistryStoredQuery
- XDSb RetrieveDocumentSet

▶ Triggering Events

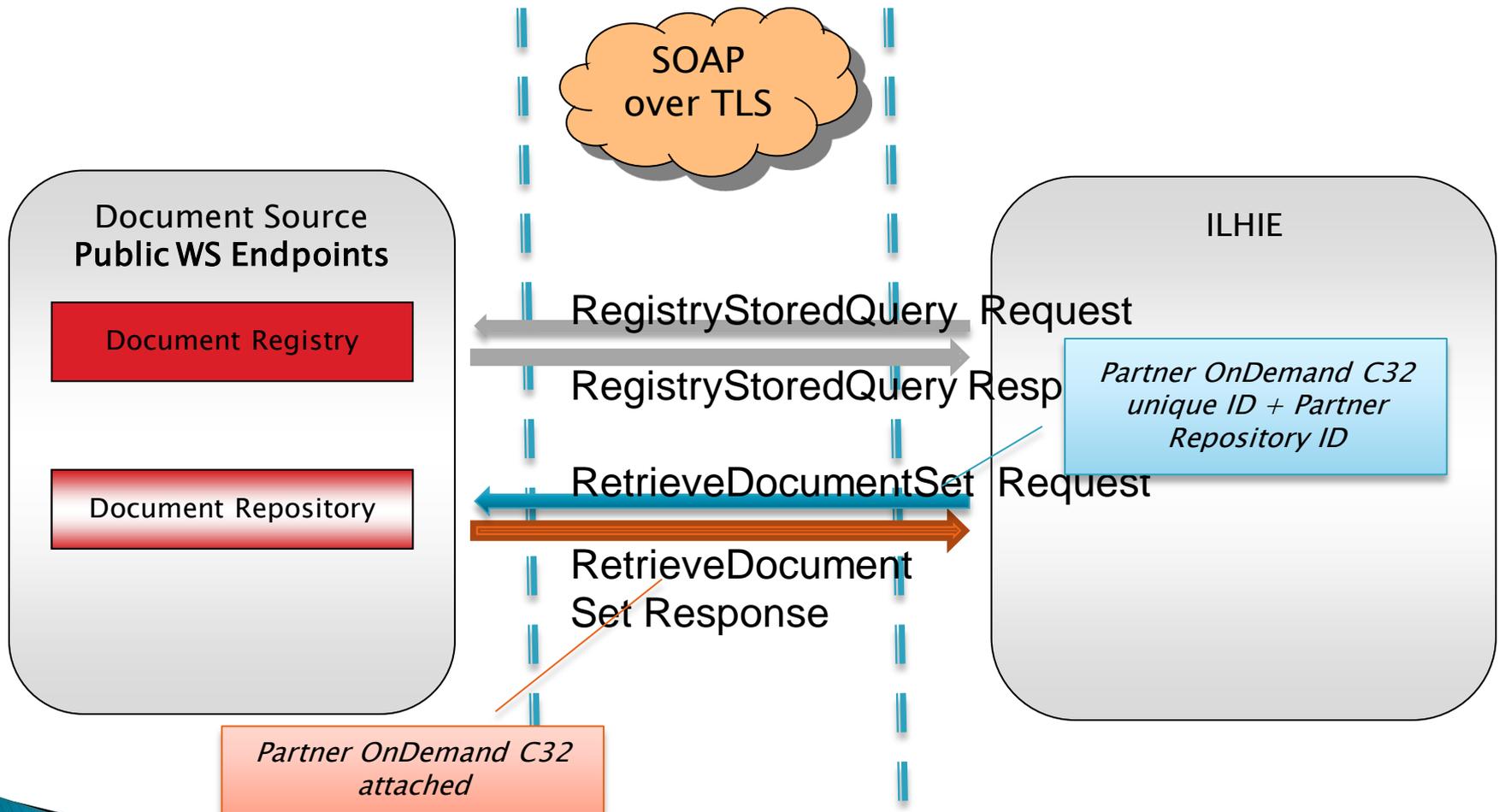
- ILHIE consolidated OnDemand C32 being requested



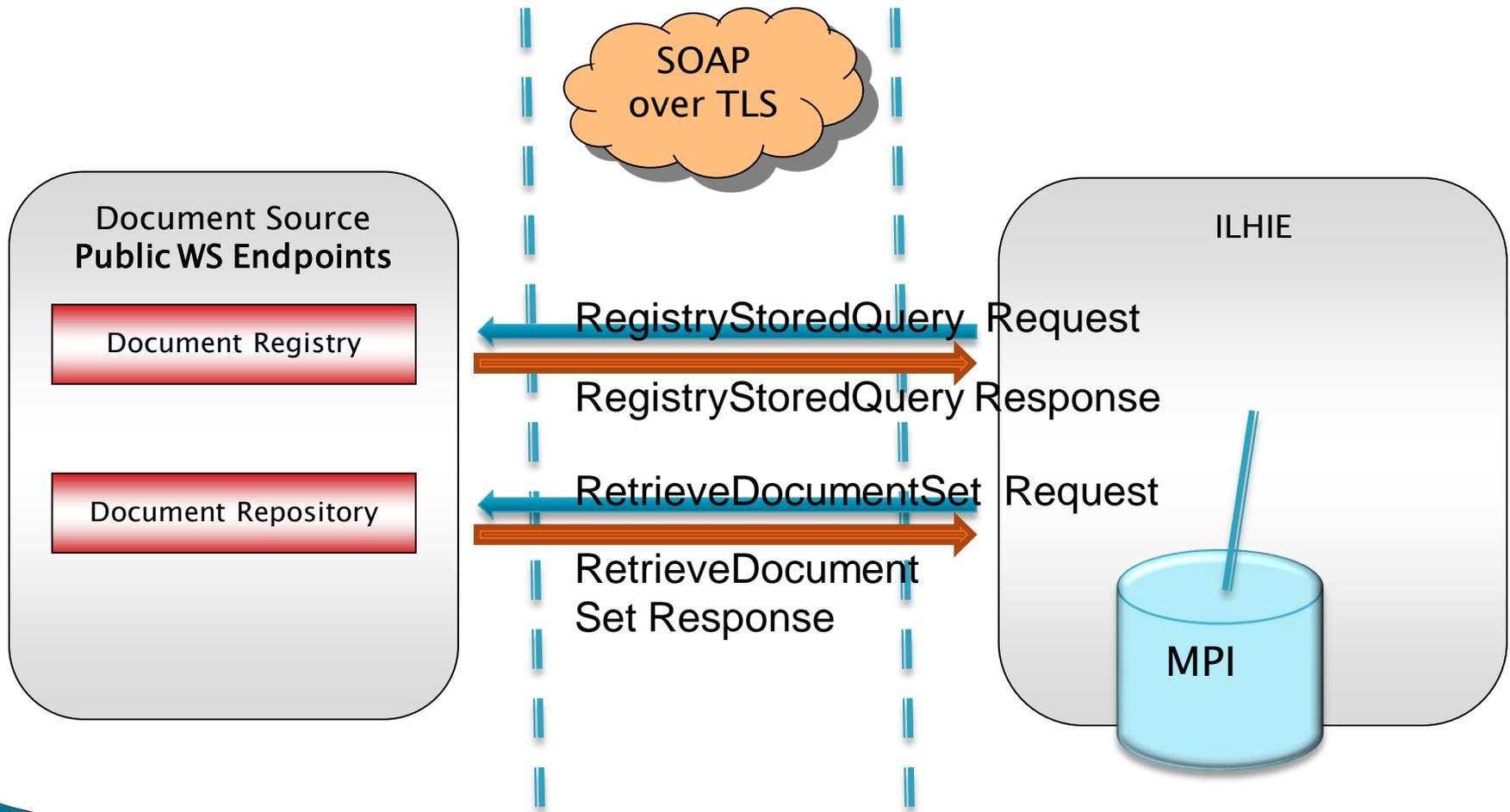
Workflow III - ILHIE Requesting OnDemand C32 from Partner



Workflow III - ILHIE Requesting OnDemand C32 from Partner



Workflow III - ILHIE Requesting OnDemand C32 from Partner



Workflow IV – Building ILHIE Provider Directory

▶ Goal

To build Provider Information Directory in ILHIE IHE Community

▶ IHE Integration Profile Transactions

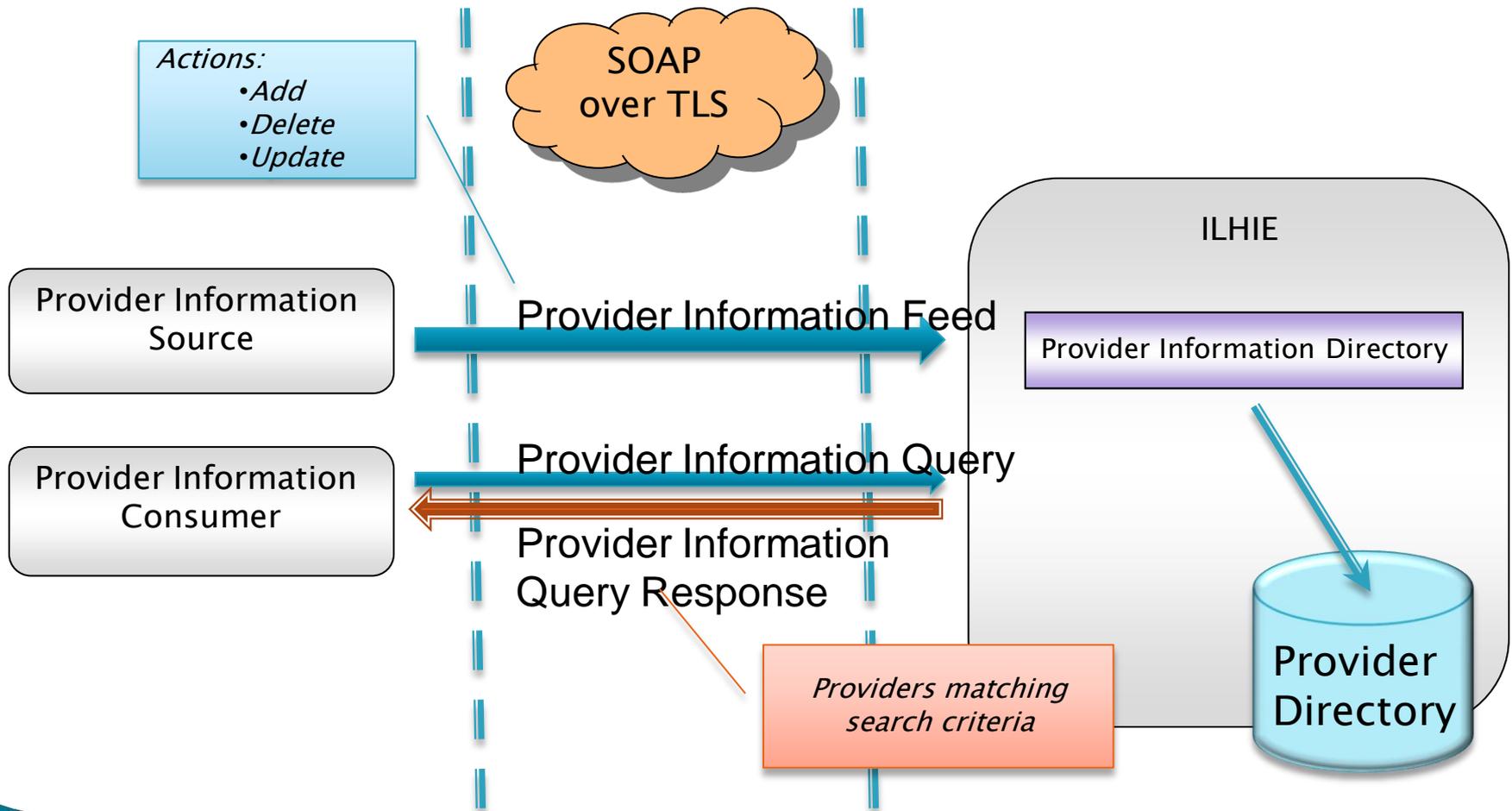
- HPD Provider Information Feed
- HPD Provider Information Query

▶ Triggering Events

- New provider entry added at Provider Information Source
- Existing provider entry updated at Provider Information Source
- Existing provider entry became inactive at Provider Information Source



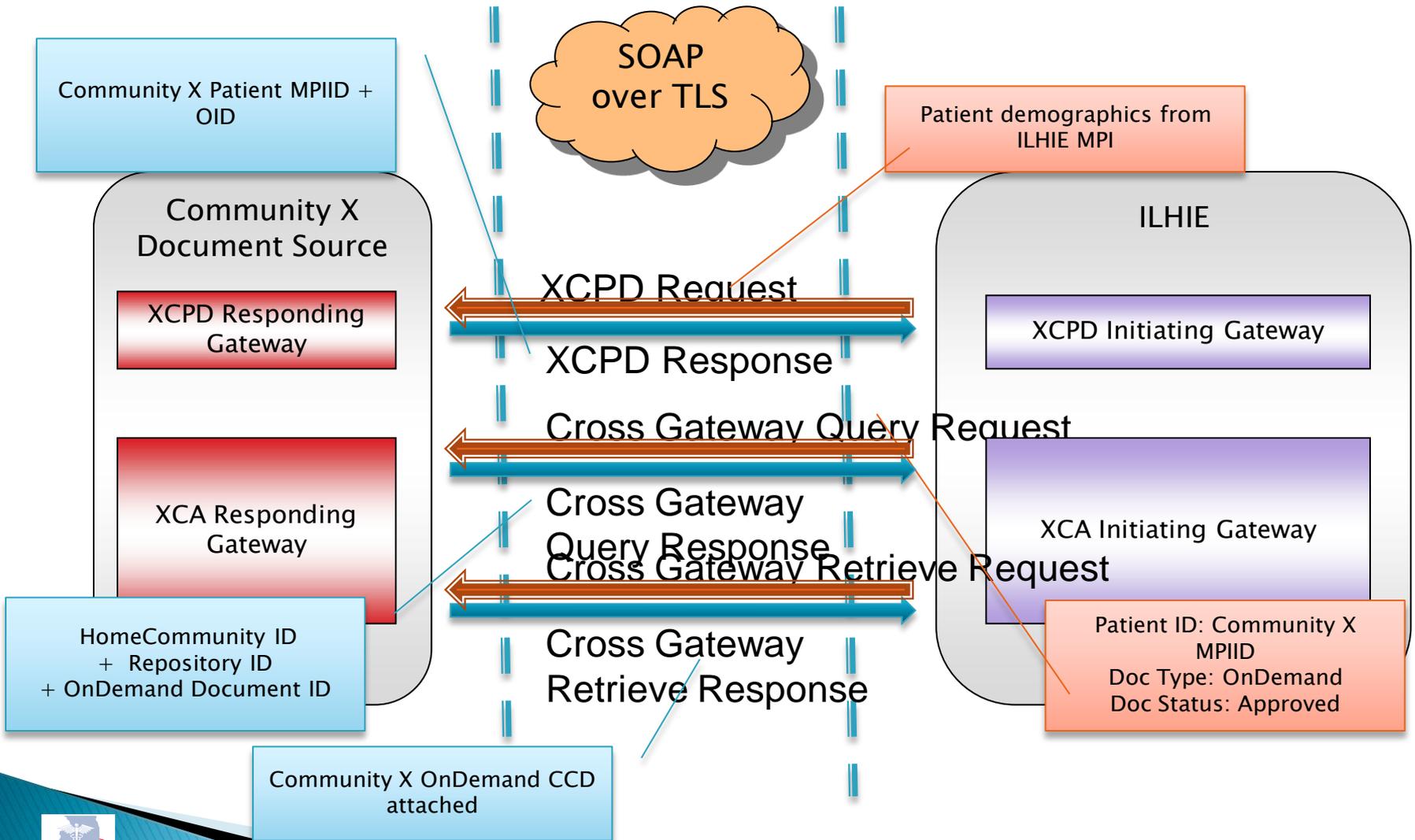
Workflow IV – Building ILHIE Provider Directory



Questions/Comments



Appendix A: XCA Workflow



Appendix B: Initial Use Cases

- ▶ Emergency Room
- ▶ Specialist Referral
- ▶ Quality Reporting
- ▶ Public Health Reporting



Use Case 3: Quality Reporting

- ▶ Provider sends quality report to HFS via ILHIE.
- ▶ ILHIE passes the report to the HFS PIP service.
- ▶ HFS PIP service determines whether or not the quality report satisfies meaningful use.
- ▶ HFS PIP service determines when to issue an incentive payment and notifies the Comptroller's office to issue payment.
- ▶ Comptroller's office sends an incentive payment to the provider.



Use Case 4: Public Health Reporting

- ▶ Provider performs an immunization or determines a patient has a reportable condition.
- ▶ Provider send the immunization or reportable condition data to the Public Health Node (PHN) via ILHIE.
- ▶ ILHIE passes the data on to the PHN.
- ▶ The PHN places the data into any relevant repositories.
- ▶ The PHN sends appropriate messages to local health agencies, CDC and/or other authorized organizations via ILHIE.

