

HIMSS 2012–IHE Interoperability Showcase:

Immunization Scenario

The 4-year-old patient and the parent visit the provider, who uses an EHR system.

The EHR queries the HIE #1 using IHE profiles.
The provider reviews the immunizations and the vaccine recommendation.

The provider administers vaccines and enters the records into his EHR.



1. Patient and Primary Care Provider #1

EHR sends a CDA document to the HIE #1, which updates the immunization registry (IIS) using HL7 Version 2.

An “on-demand” document is deposited. Later, the HIE queries the IIS to create the content.



2. Public Health and HIE #1

The child enters school in a neighboring state. The school nurse notices that, according to the vaccine schedule for that state, one shot is missing. The child visits a new provider.

The provider’s EHR repeats the process of Step 1 above, getting the up-to-date vaccines from the previous provider, and the up-to-date recommendation.



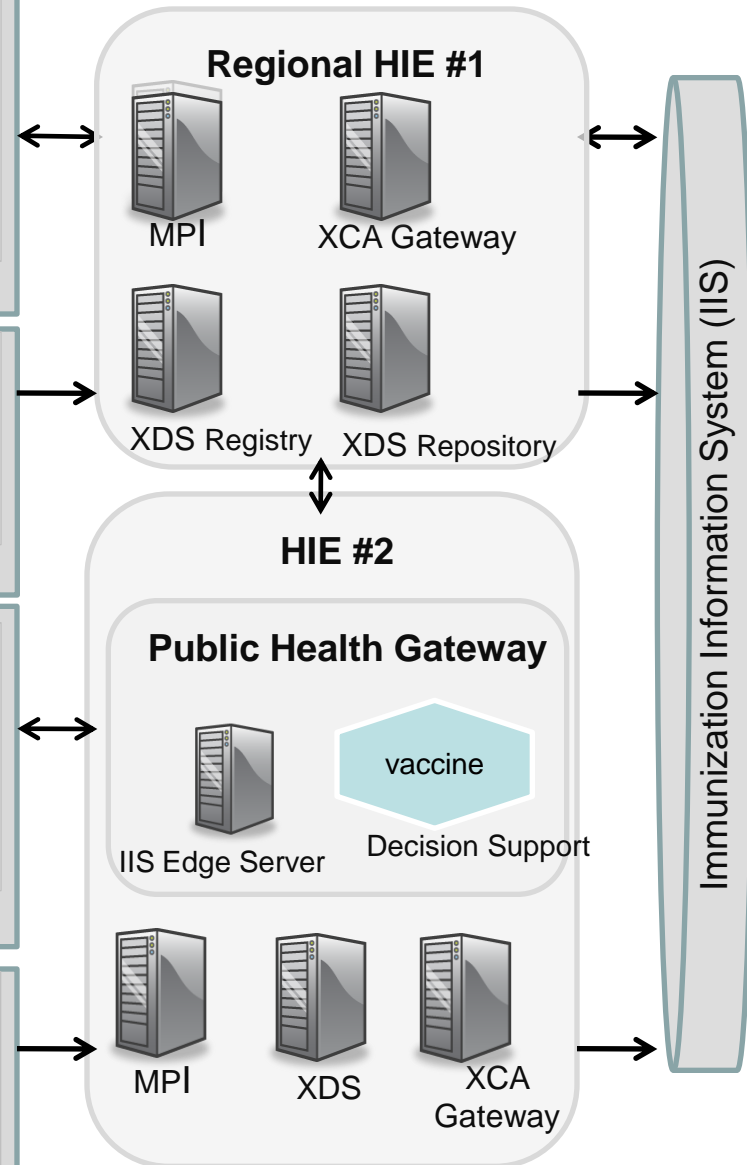
3. Patient and Primary Care Provider #2

EHR sends a CDA document to the HIE #2, which updates the immunization registry (IIS) using HL7 V2.

the Public Health Gateway creates a comprehensive Immunization Content Document with the care plan and deposits it in the XDS Repository for later retrieval.



2. Public Health and HIE #2



PHI 2011–IHE Interoperability Showcase:

Immunization Scenario

Participating Vendor Roles

Provider/EHR

- eCW

HIE #1

- Care Evolution

HIE #2

- Software Partners LLC (public health gateway, MPI)
- EMC (XCA)
- Hyland (XDS)

Public Health

Immunization Registry-Software Partners LLC

Acronyms

EHR - electronic health record

HIE - health information exchange

IC – Immunization Content

IHE - integrating the healthcare enterprise

IIS - immunization information system

PH - public health

PCP - primary care provider

PIX - patient identifier cross-reference

XDS - cross-enterprise document sharing

Immunizations administered at each step:

Step 1 - MMR Dose 2
DTP Dose 5
Polio Dose 4 (IPV)

Step 3 - Varicella Dose 2