



# HIMSS 2011-IHE Interoperability Showcase

## Public Health-Immunization Registry Updating and Utilization Scenario




**1. Patient and Primary Care Provider**

The 4-year-old patient and the parent visit the provider, who uses an EHR system.  
The EHR queries the HIE using IHE's PIX and XDS profiles.  
The provider reviews the immunizations and the vaccine recommendation.  
The provider administers vaccines and enters the records into his EHR.



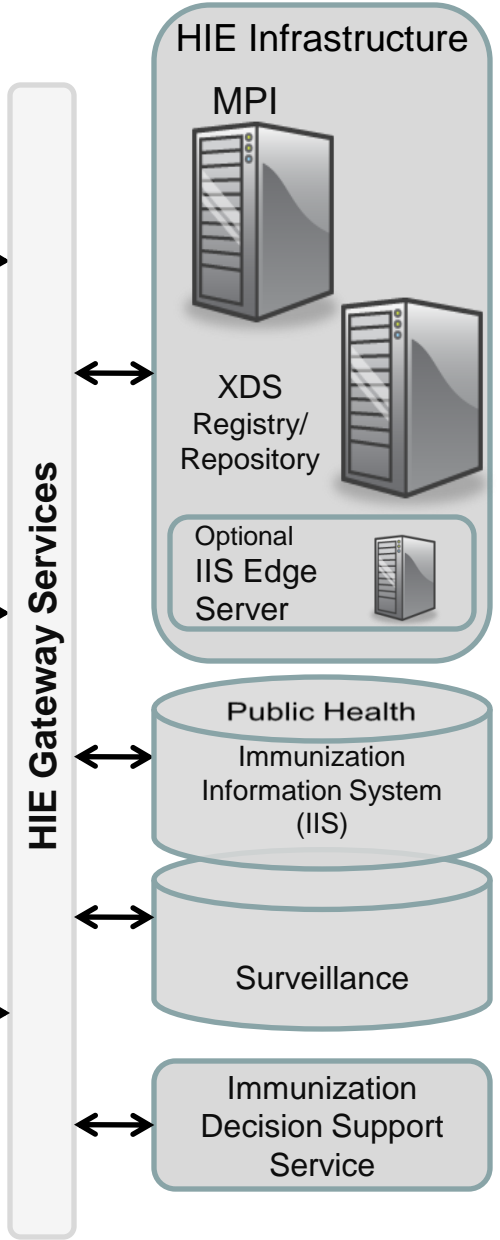
**2. Public Health and HIE**

EHR sends a CDA document to the HIE Immunization Gateway  
The Immunization Gateway creates a comprehensive Immunization Content Document.  
The Gateway simultaneously updates the immunization registry (IIS) using HL7 Version 2, and the surveillance system using XDR.



**3. Patient and Primary Care Provider**

In getting the child ready for school, the parent uses notices from his PHR that one vaccine is missing. In a rush, the parent makes an appointment at a different clinic.  
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.



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### **Participating Vendor Roles**

#### **EHR**

- Greenway Medical Technologies
- Success EHS

#### **PHR**

- Alert
- MIE

#### **Gateway Services**

- Care Evolution
- Orion
- Software Partners LLC

#### **Public Health**

- Surveillance –Atlas Development Corp.
- 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