

IIS Cross-jurisdictional Data Exchange Pilot

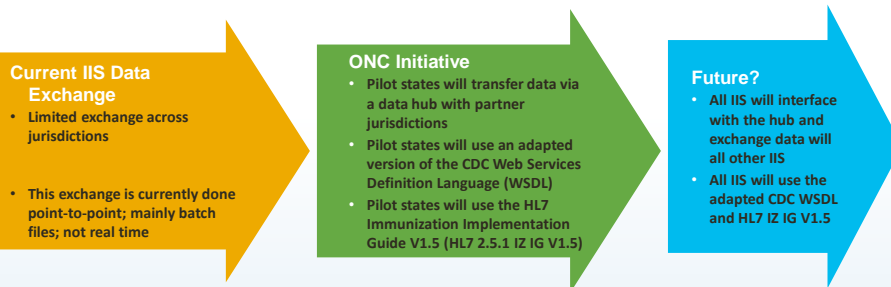
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Introduction

- The Public Health Immunization Pilot Project was launched to address the need to share immunization cross jurisdictional boundaries.
- Upon completion of the project providers will be able to request a patient's record from another immunization registry and retrieve that data across jurisdictional boundaries.
- By creating a transport hub, participating pilot sites will be able to exchange immunization data across jurisdictional boundaries through the centralized hub via a SOAP Web Service ***utilizing adopted and approved standards for interoperability.***



Advantage of HUBsolution:

- Promotes use of adapted CDC WSDL and HL7 IZ IG V1.5 which will drive interoperability
- Will improve use of bidirectional querying by IIS
- Scalable solution
 - More IIS can easily be added to the hub
 - IIS will be able to theoretically communicate with any other IIS on the hub

Goal:

- To enhance cross-jurisdictional immunization data exchange by:
 - Providing participating pilot sites with a data hub via which they can exchange immunization data
 - Committing pilot sites to implement the HL7 Immunization Implementation Guide V1.5 and use the adapted CDC WSDL

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- Scalable solution
 - More IIS can easily be added to the hub
 - IIS will be able to theoretically communicate with any other IIS on the hub
- HUB model looks at “envelope” only; does not open contents. PHI passes securely through HUB without being stored; enabled by WSDL updates.

Project Scope

It was determined that the following items would fall in and out-of-scope:

In-Scope

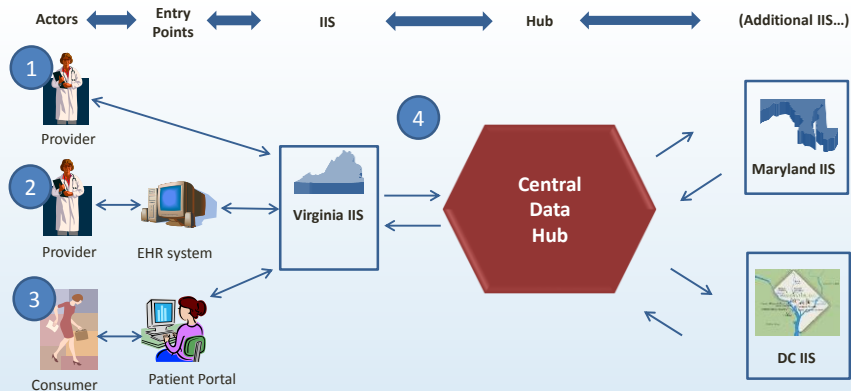
- Using current bi-directional messages to enable the exchange
- Establishing a Data Hub that will be utilized by the pilots
- Allowing for the initiation of data exchange thru the following three methods: Physician directly to Immunization Registry; Physician via EHR to Immunization Registry; Consumer via Patient Portal
- Implementation of release 1.5 of IZ IG
- Updated WSDL (corrects issues and adds ability for intermediary player)

Out-of-Scope

- Dealing with policy issues around data exchange
- Editing/updating information in registries by Consumers
- No transformation, translation, or reading of message content as it passes thru the hub (hub does not store any patient information or data)
- The hub will not ensure that all requesters of information, are authorized to receive immunization data

IIS Data Exchange Use Case Diagram

Use Case Objective: For an Immunization Information System (IIS) to respond to a transaction that contains current or historical addresses that are outside its jurisdiction by triggering a QBP or VXU to the other jurisdiction's IIS.



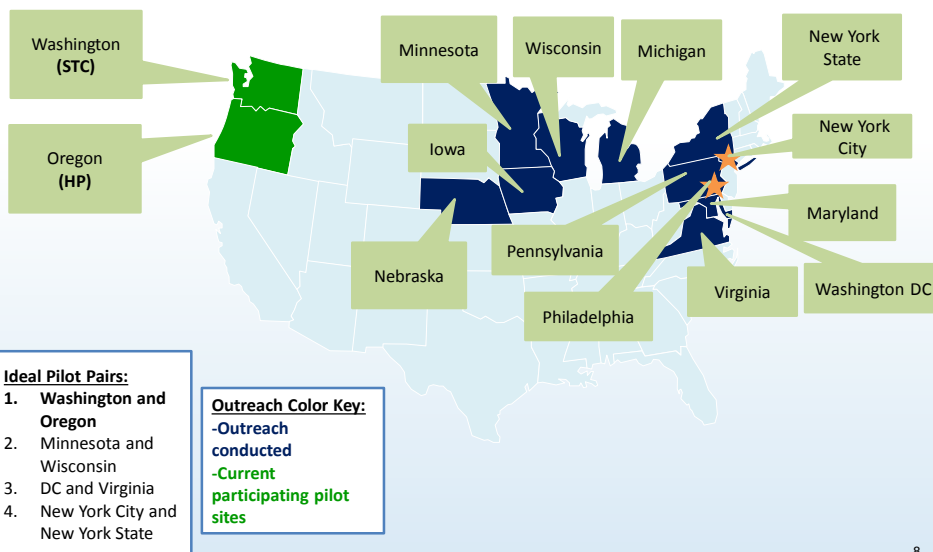
Pilot Outreach



- Conducted outreach to jurisdictions publicizing the hub solution
- Outlined the project expectations for jurisdictions so that they could assess their ability to participate
 - The following map displays all areas where outreach was conducted

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Project Outreach



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Pilot Criteria



All pilot sites must...

- Upgrade to the new CDC WSDL adapted for the Data Hub Solution
 - The WSDL is backwards compatible
- Adopt the HL7 Version 2.5.1 IG Immunization Messaging Release 1.5
- Implement any changes required to setup the Data Hub as an integration partner
 - Configuring firewalls, ports, etc.
- Maintain a test and production instance of the IIS and utilize the test version of the Data Hub for Testing and the Production version of the Data Hub for Pilot (production)
- Have the capacity to issue queries via a QBP
- Have the capacity to accept and process RSPs
- Have the capacity to consume a VXU (assumed)
- Have the ability to create or handle any additional errors from the WSDL or HL7 ACK
- Adapt the IIS to process business rules that:
 - Recognize when a new patient's current address (jurisdiction) is in a partner IIS' jurisdiction
 - Recognize when a patient's address (jurisdiction) in the IIS has changed from a partner IIS' jurisdiction to this IIS' jurisdiction

All pilot sites should...

- Provide capacity to generate an explicit request (i.e. via a "button" or process that requested the data from a partner jurisdiction)

Project Metrics for Success



Functional metrics:

- Data hub development time
- Registry interface development time
- Number of participating pilot sites and sub sites
- Percent of messages sent thru the hub correctly

Data hub technical metrics:

- Traffic Volume
- Average response times
- Production volumes
- Error rates
 - Total errors
 - Total queries
- Query processing time
- Availability/uptime
- Peak message volume throughput

State metrics:

- Errors
 - Queries Sent
 - Queries Received
- Message response times
- Percentage of messages rejected due to multiple match
- Number of end users
 - Number of unique users providing queries

Need to update

Questions?

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