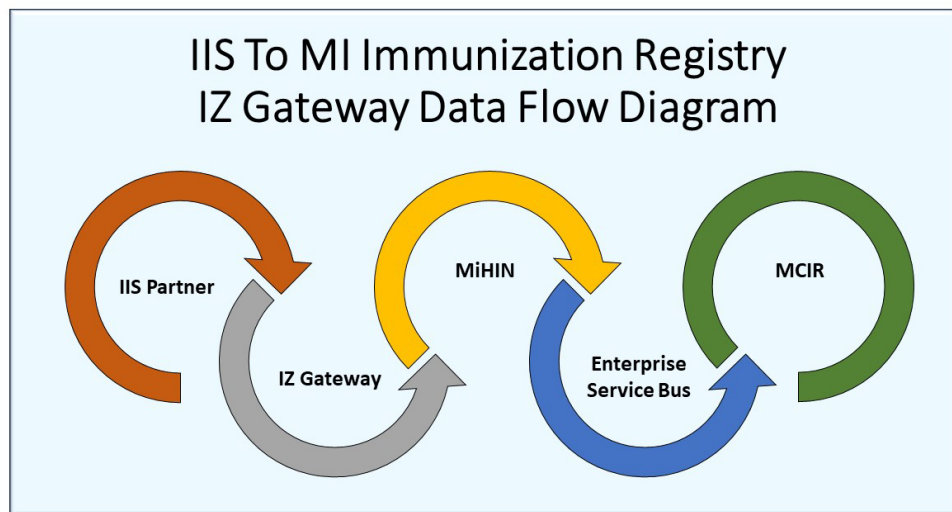# IZ Gateway Onboarding Overview

Dear IZ Gateway Partner,

We aim to provide a comprehensive preview of Michigan's IIS operations and data reporting processes, unveiling intricacies observed during connections by other jurisdictions over the IZ Gateway. Our goal is to facilitate collaboration with other jurisdictions by highlighting specific details that emerge during the testing process.

BACKGROUND

Michigan's immunization registry, a testament to our commitment to public health, was established in 1998 to collect immunization data for children. It evolved in 2006 into a comprehensive lifespan registry known as the "Michigan Care Improvement Registry. Currently, the registry encompasses approximately 13,237,672 individuals, managing around 100 million inbound VXU messages annually and about 48,000,000 QBP requests.

Michigan operates within a unique internal information network. Figure 1 illustrates how data flows from the IIS to MCIR. For historical and policy reasons, all the HL7 traffic that flows through the IZ Gateway to Michigan will have to successfully pass through the Michigan Health Information Network (MiHIN), a statewide health information exchange routing HL7 messaging traffic, including IZ Gateway. These messages reach the State of Michigan's own "Enterprise Service Bus (ESB)," where routing occurs to MCIR's internal services. Updates to the MCIR record are made as deemed appropriate.

Figure 1: Data Flow Diagram

STATE OF MI – IIS INTERFACE INFORMATION

Organization identifiers:
- Application ID: MCIR
- Facility ID: MICHIGAN

Message header values:
- MSH-3 (Sending Application) for incoming messages: MCIR
- MSH-4 (Sending Facility) for incoming messages: MICHIGAN
- MSH-5 (Receiving Application) for outgoing messages: MCIR
- MSH-6 (Receiving Facility) for outgoing messages: MICHIGAN

VXU FUNCTIONALITY

MCIR specific operational functionality:
- Sends Outbound Updates: No
- Sends Delete Events: No
- Sends Non-administration Events: No

VXU TEST CASE OBSERVATIONS

The following data elements will not be sent:
- Mother's Maiden Name
- Race
- Phone Number
- Ethnicity
- Ordering Provider
- Administered At Location: due to reporting historical
- Substance Expiration Date: due to reporting historical

The following data element may vary:
- Filler Order Number: Different from original VXU
- Dose and Units: Dose sent as "999" due to reporting historical

QBP FUNCTIONALITY
Currently, Michigan lacks a separate QBP/RSP profile dedicated to the IZ Gateway. As such, all states and jurisdictions connecting to Michigan's IIS should anticipate receiving data consistent with Michigan's standard QBP/RSP profile. This is important for understanding how to interpret the responses from Michigan's IIS, particularly concerning the reporting of historical and administered shots.

DATA HANDLING
Administrative/Historical: Michigan's Immunization Gateway stores all received information data as historical. All VXU and RSPs will report all shots as historical, 05 (other IIS immunization data).

4.2 QBP Test Case Observations:

The following data elements will not be sent:
- Mother's Maiden Name
- Race
- Phone Number
- Ethnic Group

The following data elements may vary:
- Patient Identifier List: Value sent in by originating IIS returned but with Assigning Authority changed from the original value to MIA
- Address Type: Sent in the VXU as P, returned in the RSP as L

Timeline of the production go-live process

Based on our experience, the production go-live process typically spans several weeks, encompassing key milestones outlined in the Go-Live Checklist.

1. Adding a new jurisdiction to the MI Immunization Registry System
2. Turning on outbound data feeds
3. Reviewing production data quality and addressing any issues that were not observed during the initial testing phase
4. Triggering historical backlog feeds to populate historical data
5. Establishing user access to monitoring tooling and reports

SUMMARY

Open collaboration and transparent communication are pivotal in unlocking our collective potential. As we embark on this relationship, rest assured that you can rely on our unwavering support and expertise to navigate any challenges that may surface.

Together, we will pursue value and foster growth for both our organizations. We look forward to celebrating our joint achievements and witnessing the positive impact of our partnership on improving public health outcomes.

CONTACTS

7.1 MCIR Technical Support: Josh Hull - HullJ15@michigan.gov

7.2 IZ Gateway Data Quality Liaisons:
- VXU – Tania De Castilhos – decastilhost1@michigan.gov
- QBP - Sallie Sims – simss7@michigan.gov
- Change Management Team (test and test issues): Cat Rathbun RathbunC1@michigan.gov

NOTE: Please make sure to copy all the contacts above in testing communications.