



ImmPRINT Onboarding Roadmap

This document describes in detail the HL7 Onboarding process that each site will need to complete in order to establish an HL7 interface with ImmPRINT.

Prerequisites for HL7 Onboarding:

1. ImmPRINT Site Enrollment Agreement (SEA)
 - HL7 providers must enroll their site/location in ImmPRINT by submitting the ImmPRINT SEA
<https://siis.state.al.us/ImmPrint/user/providerenrollmentagreement.aspx>
 - Providers, staff, and EHR vendors must register as “Users” to access ImmPRINT
<https://siis.state.al.us/ImmPrint/user/mou.aspx>

2. ADPH Security Portal Meaningful Use (MU) Registration
 - Providers must register in ADPH Security Portal.
<https://dph.state.al.us/adphsec/Login.aspx>

For further assistance please contact MU team at <https://dph.state.al.us/adphsec/contacts.aspx>

3. HL7 Interface Interest Email Notification to ImmPRINT
 - Providers must notify ImmPRINT about their interest to have HL7 interface by sending an email to immprint@adph.state.al.us with the following details:
 - Site/Clinic Name (If an organization-include all locations interested in transmitting immunization through HL7 interface to ImmPRINT).
 - Primary point of contact name, phone number, email, and details of the EHR system (product name, vendor contact name, phone number, and email).

The Phases of ImmPRINT HL7 Onboarding Process:

1. Testing
2. Pilot Production
3. Production -Go Live

Phase 1 - Testing

Usually EHR vendors are responsible for the testing phase. However, in some cases sites are affiliated with Health Systems and might do their own Testing. Testing is based on the EHR/Health system level and not at site level. Testing is required only once at the system level instead of multiple tests at the site level.

For detailed information on Testing, please refer to **Appendix A**.

Note: Only after successful completion of Testing sites will be placed in Pilot. Please contact the vendor and inquire about their testing status with ImmPRINT.



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Phase 2 - Pilot Production

The Pilot Production phase involves the process of monitoring the data quality of live patient data transmitted by the site. Both the provider and vendor staffs are educated on acceptable message content and format for successful and meaningful transmission of immunization data. Once the data quality meets the established criteria the site is moved to Production-Go Live. Site should only transmit real patient data to ImmPRINT Pilot.

ImmPRINT works on each site with a distinct physical address. Organizations may be comprised of multiple sites. However, each site under the shared organization **MUST** complete the Pilot phase before moving to Production-Go Live.

Pilot Production Steps:

- Sites will be served on “First come, first serve” basis.
- ImmPRINT will provide Pilot Connectivity Credentials to provider staff through the ADPH Security Portal to share with their EHR vendor.
- Provider and vendor staff that are responsible for monitoring the data feed in Pilot must register with ImmPRINT Pilot.
- The EHR vendor must establish the **real-time connection** to ImmPRINT Pilot and notify both ImmPRINT and the provider staff.
- Both provider and vendor staff must participate in an Immunization Transmission Demo Session.

Immunization Transmission Demo Session

- This is an online conference call between the EHR vendor, provider staff, and ImmPRINT.
- The provider staff demonstrates how they use the EHR to capture immunization information and transmit it to registry by sharing their EHR screen while entering real patient immunization data (historical and administered/encountered) in the EHR.
- ImmPRINT confirms the data transmission and address errors for transmitted data.
- ImmPRINT educates both the provider and vendor staff on various HL7 Reports made available to them.
- After the successful completion of the Demo Session the site will be officially placed in Pilot.
- Pilot duration is usually 30-90 days. The pilot stay may extend beyond 90 days depending on the quality of data.
- The site needs to achieve and continue to adhere to the established criteria for data quality before moving to Production -Go Live.

Criteria for data quality:

- Sites that report “**large volume**” of data (e.g., large Pediatric Clinics) must **maintain <=10% data errors and 0 technical errors.**
- Sites that report “**small volume**” of data (e.g., Internal Medicines) must **maintain <=5% data errors and 0 technical errors.**



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EHR vendor is expected to retransmit Pilot data to Production once approval is given to move to Production.

Phase 3 - Production –Go Live

In this phase, sites will transmit actual data to the live database. Sites should **ONLY** transmit real patient data to ImmPRINT.

Production Steps:

- ImmPRINT will provide Production Connectivity Credentials to provider staff through ADPH Security Portal to share with their EHR vendor.
- Provider staff responsible for monitoring the data feed to the registry must be an ImmPRINT User.
- The EHR must establish the **real-time connection** to ImmPRINT and notify both ImmPRINT and the provider staff.
- Both provider and EHR vendor staff must participate in the Production Kick off Call.
- Ongoing transmission and monitoring of data is expected from the provider and the vendor. If any inaccuracies or issues are found, vendor and provider staff should notify ImmPRINT immediately to work through the issue.
- ImmPRINT will also monitor the data on a periodic basis and notify provider and vendor staff regarding the errors or issues.
- Sites failing to resolve the issues or errors in a timely manner may be reverted to Pilot.



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Appendix A:

Send Data Sharing Agreement (DSA) and Excel Spreadsheet:

EHR Vendor(s) must sign the Data Sharing Agreement (DSA) once for all their provider clients and must send a current list of Alabama ImmPRINT sites with an interface. ADPH recognizes all data transmitted by vendors on behalf of the vendor's healthcare provider clients, who are utilizing the vendor's immunization data transmitting services. ADPH further recognizes all data transmitted by the vendor to ADPH as owned by the vendor's healthcare provider clients. Vendors must continue to update their DSA spreadsheet when new sites want to onboard with ImmPRINT and email the updated spreadsheet to immprint@adph.state.al.us

Data Sharing Agreement Link:

<http://www.alabamapublichealth.gov/immunization/assets/immprintdsa050117.pdf>

There are two ways to exchange data with ImmPRINT.

- Real-time unsolicited updates (VXU only) are required to onboard with ImmPRINT. When VXU messages are sent, the acknowledgment is sent back in the response.
- Real-time bi-directional (QBP) are not required to onboard with ImmPRINT. Please note ImmPRINT is ready to accept bi-directional messages. If you choose to send bi-directional (QBP) messages, the vaccine history for the patient is sent back in the response.

Testing

Immunization testing is comprised of three steps. EHR Vendors/Health Systems (the responsible testing entity) must successfully complete all the three steps in order to pass Testing with ImmPRINT.

Three Steps of Testing:

1. NIST Message Structure Validation
2. Communication Testing
3. Message Content Validation

NIST Message Structure Validation:

Testing entity must validate two HL7 test messages (one test message with an encountered shot and another test message with a historical shot) using the NIST 2015 Meaningful Use (MU) Tool: <https://hl7v2-iz-r1.5-testing.nist.gov/iztool/#/home>



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To complete NIST Message Structure Validation, please follow the steps below:

1. Select “HL7 Context-free” tab and click on VXU-Z22 under “Profiles”.
2. Click the “Browse” button to upload an HL7 test message.
3. Click the “Report” tab to view Message Validation Report.
4. Repeat the steps above for the second test message.
5. Send the screenshots of successful messages with 0 errors to immprint@adph.state.al.us

Communication Testing:

1. ImmPRINT will provide Test Connectivity Credentials once the NIST Message Structure Validation has been successfully completed.
2. The testing entity must configure the connection to ImmPRINT’s test environment and must send 3-4 test messages to confirm the test connection.

Message Content Validation:

1. ImmPRINT will provide test cases for message content validation for VXU (QBP if applicable) testing.
2. The testing entity must successfully send all test cases provided to complete this testing.
3. ImmPRINT will provide a testing status report.

For more information, questions, or concerns regarding the Onboarding process phases, please contact us at 1-800-469-4599 or immprint@adph.state.al.us