

ImmPRINT Site Agreement (ISA)

- (1) All HL7 providers must enroll with ImmPRINT by submitting the ImmPRINT Site Agreement, <https://siis.state.al.us/ImmPRINT/user/providerenrollmentagreement.aspx>
- Immunization Division (IMM) will contact the provider site once their ISA is approved.
- (1) Providers, staff, and vendor users must register in ImmPRINT, <https://siis.state.al.us/ImmPRINT/User/MOU.aspx> (This registration allows users to monitor their HL7 reports (Connectivity, Vaccine, Error, Ongoing Submission, Ongoing Submission by NPI, and Data Quality Overview).

Meaningful Use (MU) Registration

- (1) Providers and vendors must register in the ADPH Security Portal, <https://dph.state.al.us/adphsec/Login.aspx>.
- Select 'ADPH Meaningful Use' from the list of applications during registration.
- Register for the ADPH Meaningful Use application by completing the 'Organization Info' on the 'Home' page.

VENDORS

Implementation Guidance

Download:

1. ImmPRINT HL7 Master Guide, http://www.IMM.org/Immunization/assets/HL7_Master_Guide.pdf
2. CDC HL7 Version 2.5.1 Guide, <https://www.cdc.gov/vaccines/programs/iis/technical-guidance/hl7.html>
3. CDC's Mapping Vaccine, <http://www.cdc.gov/vaccines/programs/iis/code-sets.html>

Test Queue

1. **Only test data should be sent to the test environment. Production data should only be sent to the pilot and production environments.**

NIST Message Structure Validation

1. Vendor must validate at least 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, <http://hl7v2-iz-testing.nist.gov/mu-immunization/>.
2. Select the "Context-free" tab, and then click on the "Browse Message" button and select a HL7 message by clicking on the "Select Message" button.
3. Select the first test message and click "Open" and the test message will appear in the "Message Content" panel.
4. Result Summary will automatically appear under "Message Validation Results" panel.
5. Repeat the steps above for the second test message.
6. (2) After vendor tests data structure through NIST they must send the successful

messages and screenshot to immprint@adph.state.al.us

7. IMM will notify the vendor once the NIST passed messages have been verified.
8. Please allow 10-14 business days for NIST validation review.

Send Data Sharing Agreement (DSA) and Excel Spreadsheet

1. (3) The vendor must sign the Data Sharing Agreement (DSA). In addition, EHR vendors must submit their complete list of Alabama sites who has/wants HL7 interface with ImmPRINT on the DSA spreadsheet provided by IMM.
 - ADPH recognizes all data transmitted by vendors is on the 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 is owned by the vendor's healthcare provider clients.
2. (4) Vendors who have signed the DSA and provided the DSA spreadsheet must continue to update their DSA spreadsheet if a new site wants to onboard with ImmPRINT. Add the new site to the previous spreadsheet and email the updated spreadsheet to immprint@adph.state.al.us

Communication Testing

1. (5) IMM IT will provide the test WEB SERVICE URL and test credentials (MSH-3, MSH-4 and MSH-8 security credentials) to vendor once NIST Message Structure Validation is successfully completed.
2. Review the ImmPRINT HL7 Master Guide, http://www.IMM.org/Immunization/assets/HL7_Master_Guide.pdf
3. (6) Vendors will configure the test environment to the Test Web Service and will test the connection to registry by sending 3-4 communication test messages to the test environment.
4. (7) IMM will confirm the vendor for received test messages.

Message Content Validation

1. (8) IMM will refer the vendor to the ONC test minimum cases, https://www.healthit.gov/sites/default/files/standards-certification/2014-edition-draft-test-procedures/IZ_7_1.1_Complete_Record_Typ_TestPackage_immunization.pdf.
2. Vendors will create a new patient for each test message based on the test cases and transmit messages to registry.
3. HL7 messages containing patient health information (PHI) should never be sent to the test environment.
4. Message structure and data are validated for errors.
5. 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 acknowledgement is sent back in the response.
 - Real-time bi-directional (QBP) are not required to onboard with ImmPRINT. Please note ADPH IMM 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.
6. If messages fail, the vendor will correct errors and retest until there are no errors.

7. (9) IMM will review and verify the ONC test cases errors and will upload the errors and vaccine reports to the vendor's account in the ADPH Security Portal.
8. Please allow 10-14 business days for review.
9. Once test cases are successfully completed with no errors, IMM IT will approve the site for PP queue.

Pilot Production (PP) Queue

1. Sites in the queue are served on "First come First Serve basis."
2. (10) IMM IT will provide PP Credentials to provider to share with vendor.
3. Provider staff and vendor must register in ImmPRINT pilot. This registration allows users to access and monitor their HL7 Reports in Pilot environment.
4. Vendor will configure environment to point to PP environment and IMM will turn on the PP location and monitor the data.
5. Criteria to move out of the PP includes, successful completion of all the required registrations and agreements, transmission of high quality data (see number 6 below), and successful completion of the (11) WebEx EHR Demonstration Session which includes:
 - Vendor, the provider, and the ImmPRINT staff must be present together.
 - Provider staff to input 5 real patient immunization data (historical and encountered) in their EHR.
 - IMM will identify potential issues or challenges with message content, data quality, and clinic workflow.
6. For data quality, "large volume" sites (e.g., Pediatric Clinics, Schools,) must maintain $\leq 10\%$ data errors and 0 technical errors. "Small volume" sites (e.g., Hospitals, Internal Medicines) must maintain $\leq 5\%$ data errors and 0 technical errors.
7. (12) The typical duration for PP is 1-3 months; IMM will monitor PP data throughout this duration. However, the duration mainly depends on the quantity and quality of data.

Production (P)

1. (13) IMM IT will provide P Credentials to provider to share with their vendor.
2. Vendor will configure environment to point to IMM Production environment.
3. (14) IMM IT will turn on the P location and monitor production data.
4. (15) Vendor must push all data sent in PP into P.
5. (16) Providers and vendors are responsible for monitoring HL7 Reports, ensuring that the connection is proper, and the quality of data is high. If any inaccuracies are found, vendor or/and provider should notify IMM immediately to work through the issues.
6. IMM will actively monitor the data for 1-3 months for the new Production sites. If the site fails to maintain the established standard for data quality, the site will be reverted to PP.
7. IMM will continue to monitor data periodically and notify the provider and vendor of any errors or issues. Site will be reverted to PP Queue if failed to resolve the issues.

ImmPRINT Onboarding Roadmap

Important Notes:

- If the site is already in PP or P and is changing their EHR vendor, the site will be reverted to the PP Queue and will be served with highest priority. Please refer: www.adph.org/Immunization/assets/SwitchingVendor1.pdf
- ImmPRINT works on per site basis meaning each site with a distinct physical address. Organizations may comprise of multiple sites and may share a single interface but please note that each site must send HL7 messages to ImmPRINT with their unique id (MSH-4) provided by IMM.
- The HL7 credentials necessary to set up the interface may be deactivated if the EHR vendor is unable to set up the interface within 6 months of credentials being assigned.

For more information, please contact us at 1-800-469-4599 or immprint@adph.state.al.us
(#s) indicate the step numbers on the Simplified ImmPRINT HL7/MU Onboarding Process Steps.