



Getting Started: How to Establish an HL7 Interface with NJIS

Interface Enrollment

The New Jersey Immunization Information System (NJIS) can receive immunization data directly from provider office electronic health record (EHR) systems via HL7 standard messaging protocol. At this time, NJIS accepts data using HL7 version 2.5.1. This document provides a general overview of the process for setting up an interface with NJIS. The time it takes to establish an interface will vary based on issues with data submissions, errors in formatting of the messages, and the number of providers in the queue. NJIS support and technical staff will work to process interface enrollment requests as quickly as possible and in the order, they are received. Due to the large volume of interface enrollment requests, it may take several months for your interface to go into production.

Please note the following:

- If you are interested only in attestation for Meaningful Use Objective (Stage 1 Attestation Only), your request will be processed only through step 4 below. You will receive notification upon successful electronic submission of your HL7 test file.
- If you are currently enrolled in the interface onboarding process and wish to upgrade or change any of the following areas of your interface enrollment, you must re-enroll for interfacing with NJIS by submitting a **new** Interface Enrollment form online:
 - Reason for Enrollment (if changing from MU Only to MU and State Reporting)
 - Vendor
 - Interface Type
- Providers and/or organizations with multiple locations MUST SUBMIT SEPARATE interface enrollment forms for EACH individual location.
- On the Interface Enrollment form, please indicate whether you are interested in a bi-directional (two-way) HL7 interface with NJIS. Two-way messaging between an electronic health record (EHR) and NJIS will utilize Health Level Seven (HL7) version 2.5.1 to exchange immunization data. With this bi-directional messaging capability, providers will be able to query NJIS for their new or existing patients, in order to populate a patient's immunization record into their own EHR system. For more information, please see the two-way messaging FAQ document on our website: https://njiis.nj.gov/docs/NJIS_Two_Way_Messaging_FAQs.pdf.

Interface Enrollment Process:

1. Visit NJIIS home page <https://njiis.nj.gov>.
 - a. Click on “**Interface Enrollment**” link on the right-side navigation bar <https://njiis.nj.gov/core/web/#/interfaceEnrollment>.
 - b. Download and review the following document with your EHR vendor:
 - Interface Specifications for HL7 2.5.1 Message Type
2. Click on “**NJIIS Interface Enrollment Request Form**” link and complete the online form. **The Interface Enrollment Request Form can only be submitted online. NJIIS will NOT accept or process faxed or mailed forms.**
 - a. Please note that HL7 is the required “**File Format.**” You may select either SFTP, File Upload, or Web Service for “**Interface Type.**” Discuss with your vendor which “**Interface Type**” you will be using.
 - i. If you choose the SFTP option, NJIIS will establish a secure FTP folder for your site.
 - ii. If you choose the File Upload option, someone from your office will be responsible for logging into NJIIS and uploading the file on a periodic basis.
 - iii. If you choose the Web Service option, you will be provided with instructions on how to send files via web service.
3. Once you submit your enrollment form online, you will automatically receive an enrollment form submission number and unique key. NJIIS will send you an email confirming receipt of your enrollment request form and provide you with a URL to the NJIIS smoke test page. Please click on this email link and you will be re-directed to the smoke test site to validate and submit your HL7 message. A “smoke test” or HL7 parser test is REQUIRED as part of enrollment process (Phase 1 of interface enrollment testing).

Accessing the NJIIS Smoke Test Page and Submitting a Successful HL7 File:

- a) Click on the NJIIS smoke test link from your interface enrollment confirmation email. Alternatively, you may also visit the NJIIS Smoke Test page directly at: <https://njiis.nj.gov/core/web/index.html#/smokeTest>. Please note: an enrollment form number and key are **required** before successful completion of your smoke test.

Interfaces Management System (IMS) Smoke Test

Please upload an HL7 file or "copy and paste" file contents into "HL7 VXU V04 Message" text area below.

Upload HL7 file for validation

Select File:(Please ensure file is a .txt or .hl7 file)

Choose File | No file chosen | Upload

Enrollment Form Details

Form Number: Key(Case Sensitive):

Request

HL7 Version: *
2.5.1

HL7 VXU*V04 Message: *

Note:If you are correcting your file in this text area, please ensure you save a local copy of the validated HL7 message to your hard drive.

Validate | Reset

b) Browse for an HL7 message. Per instructions, you may also "copy and paste" message contents into text box.

Interfaces Management System (IMS) Smoke Test

Please upload an HL7 file or "copy and paste" file contents into "HL7 VXU V04 Message" text area below.

Upload HL7 file for validation

Select File:(Please ensure file is a .txt or .hl7 file)

Browse... | Upload

Enrollment Form Details

Form Number: Key(Case Sensitive):

Request

HL7 Version: *
2.5.1

HL7 VXU*V04 Message: *

Note:If you are correcting your file in this text area, please ensure you save a local copy of the validated HL7 message to your hard drive.

Validate | Reset

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- c) Click "Upload." The HL7 message contents will appear in the text box as shown below.

Interfaces Management System (IMS) Smoke Test

Please upload an HL7 file or "copy and paste" file contents into "HL7 VXU V04 Message" text area below.

Upload HL7 file for validation

Select File: (Please ensure file is a .txt or .hl7 file)

Smoke Test Sample 2.5.1.txt Browse... **Upload**

Enrollment Form Details

Form Number: Key (Case Sensitive):

Request

HL7 Version:

HL7 VXU*V04 Message:

```
MSH|^~\&|My EHR 1.0|325|NJ|S|NJDOH|20130410081752||VXU*V04*VXU_V04|987654321|T|2.5.1|||NE|AL|
PID|I||12345^^325^MR~202729^^^N|IIS^SR||Smith^Joey^Milo^L^Doe^Jane^M|20120401|M||2106-3^White^HL70005|123 Anywhere St&Anywhere St&123^Apt
5A^Trenton^NJ^12345^USA^L||^PRN^PH^^609^5551212~^*ORN^CP^^732^5551212~^*NET^X.400^joey.smith@fakeemail.com||ENG^English^HL70296|||||2186-5^Not Hispanic or
Latino^HL70189||N|I|
NK1|I|Smith^Jane^Marie^^L|MTH^Mother^HL70063|123 Anywhere St&Anywhere St&123^Apt
5A^Trenton^NJ^12345^USA^L|^PRN^PH^^609^5551212~^*ORN^CP^^973^5551212~^*NET^X.400^jane.smith@fakeemail.com|^WPN^PH^^201^5551212~^*NET^X.400^jane.smith@fake
orkemail.com|
ORC|RE||987612345^325|
DVA|D|123456789||31M^w|e|l|e|C|V|D|_E|n|t|_|M|U|C|L|_|H|O|P|N|^m|e|d|e|c|a|l|^D|e|p|t|_|N|E|D|O|_|U|C|H|e|l|p|_|S|_|M|2|E|_|1|2|3|4|5|6|7|8|9|0|_|M|C|D|_|M|e|k|_|L|_|D|_|C|_|_|M|_|U|_|C|_|D|_|
```

Note: If you are correcting your file in this text area, please ensure you save a local copy of the validated HL7 message to your hard drive.

Validate **Reset**

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- d) Click "Validate." If you accessed the smoke test page *before* completing an interface enrollment form, you will receive a message that your test was successful and an enrollment form number and key are required before successful completion of your smoke test. You must submit an online interface enrollment request form and then you will be provided with an enrollment form number and key. Click "Validate" on the parser tool after entering the enrollment form number and key.

Interfaces Management System (IMS) Smoke Test

Please upload an HL7 file or "copy and paste" file contents into "HL7 VXU V04 Message" text area below.

Upload HL7 file for validation

Select File: (Please ensure file is a .txt or .hl7 file)
 Smoke Test Sample 2.5.1.txt

Enrollment Form Details

Form Number: Key(Case Sensitive):

Request

HL7 Version: *
 2.5.1

HL7 VXU*V04 Message: *

```
MSHI~\~\&My EHR 1.0|325|NJ|IS|N|JDOH|20130410081752||VXU*V04*VXU_V04|987654321|T|2.5.1|||NE|AL|
PID|1||12345***325*MR~202729***NJ|IS*SR||Smith*Joey*Milo***L|Doe*Jane*****M|20120401|M||2106-3*White*HL70005|123 Anywhere St&Anywhere St&123*Apt
5A*Trenton*NJ*12345*USA*L||*PRN*PH***609*5551212~*ORN*CP***732*5551212~*NET*X.400*joey.smith@fakeemail.com||ENG*English*HL70296|||||2186-5*Not Hispanic or
Latino*HL70189||N|I|
NK1|1|Smith*Jane*Marie***L|IMTH*Mother*HL70063|123 Anywhere St&Anywhere St&123*Apt
5A*Trenton*NJ*12345*USA*L||*PRN*PH***609*5551212~*ORN*CP***973*5551212~*NET*X.400*jane.smith@fakeemail.com||*WPN*PH***201*5551212~*NET*X.400*jane.smith@fake
orkemail.com|
ORC|RE||987612345*325|
DXA|0|3|00120402|014Vaccine|C|V|0. E|e|L|A|U|C|U|M|I|00|New Immunization Record|N|D|03|U|Shot|type|S|alk|4|M25|E|H|1234|A|B|20131220|MCD|Merck|TL Co. Inc|MMX|I|CD|A|
```

Note: If you are correcting your file in this text area, please ensure you save a local copy of the validated HL7 message to your hard drive.

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- a) Upon successful validation and submission of your HL7 smoke test file, you will receive the following confirmation below on your web browser and via email.

Note: If you are correcting your file in this text area, please ensure you save a local copy of the validated HL7 message to your hard drive.

Response

Status	SUCCESS
Status Message	HL7 2.5.1 smoke test successful.

4. You must submit your test file within 30 days, or your Interface Enrollment Request will be closed. An email notification will be sent should the request be closed due to non-receipt of the test file.
 - a. For providers enrolling for Meaningful Use Objective (Stage 1 Attestation Only): Once the HL7 message has been successfully sent electronically via the NJIIS smoke test page, you will receive an email message acknowledgment that MU Stage 1 criteria was met. This is sufficient for you to use during the MU attestation process.
 - b. For providers enrolling for both Meaningful Use and State Reporting of Immunizations (N.J.A.C. 8:57): Once the HL7 message has been successfully tested and sent electronically via the NJIIS smoke test page, you will receive an email message acknowledgment that MU Stage 1 criteria was met. You will now be placed in our queue awaiting an invitation to Phase 2 of the interface enrollment process. Once NJIIS is ready to receive your data, you will receive a second email stating that you have been moved to Phase 2 of the interface enrollment testing process. You will receive detailed instructions on how to submit files for Quality Assurance testing (Phase 2 of testing).
 - c. For providers enrolling as State Reporting only: Once your test file has been successfully tested and sent electronically via the NJIIS smoke test page, you will receive an email stating that you have completed Phase 1 and have been placed in our queue waiting to be invited to Phase 2 of the interface enrollment process. Once NJIIS is ready to receive your data, you will receive a second email stating that you have been moved to Phase 2 of the interface enrollment testing process. You will receive detailed instructions on how to submit files for Quality Assurance testing (Phase 2 of testing).
5. Please note that Phase 2 of the NJIIS enrollment testing process encompasses a comprehensive quality review of your data to ensure accuracy and completeness. Once Phase 2 testing has been completed successfully and your production interface is established, you will receive notification from NJIIS with instructions for how to submit immunization data into production.

For additional information or questions related to Interface Enrollment, please contact the NJIIS Trainer for your county. This information can be found on our website at <https://njiis.nj.gov/core/web/index.html#/training>.

NJIS Reporting Requirements

As per The Statewide Registry Act (2004) and its accompanying rules (N.J.A.C. 8:57-3:16), a healthcare practitioner that immunizes children under 7 years of age is required to enroll as an authorized user of NJIS and report vaccinations within 30 days of administering the vaccine. It is required to report immunizations administered to those children under 7 years of age, regardless of whether they receive VFC vaccines or privately purchased vaccines.

While reporting of vaccinations administered to children under 7 years of age is mandatory, the NJIS is a lifespan registry and will accept vaccination data on New Jerseyans of all ages.

For persons born before January 1, 1998, consent is required. That person (or their parent/guardian) must complete and sign the NJIS Consent to Participate form located online: <http://www.state.nj.us/health/forms/imm-32.pdf>. The Consent form should be kept with the patient's record at the healthcare provider's office.

For persons born on or after January 1, 1998 individual consent is not required. The provider may inform their patients that they participate in the NJIS. If any patient chooses to opt-out from participating in the NJIS, they can complete the IMM-47 (Registrant Withdrawal from NJIS) form to opt- out.

For additional information, please see the NJIS FAQs document located online at: <https://njiis.nj.gov/docs/njiisfaqs.pdf>.

NJIIS User Training

Please note that training is mandatory for enrolling in NJIIS. Please sign up for required training(s) at <https://njiis.nj.gov/core/web/index.html#/training>.

Recommended Trainings

- a. **NJIIS Fundamentals:** In-person training recommended for new users that will be logging into NJIIS to review patient records. This provides an in-depth review of patient search, data entry, information on how to view Early Newborn Hearing Screening results, historical lead test results, and many other functions and resources available in NJIIS.
- b. **NJIIS Interface Training:** Online webinar training recommended for new and existing users in provider offices that submit immunization data to NJIIS via interface. This training is appropriate for both technical and clinical staff. Users will learn how to view and troubleshoot errors with data submitted through the interface, how to correct key fields, key reports to use for troubleshooting, and other issues related to interfacing. This is not intended to be a comprehensive training on all the functionality available in NJIIS. Clinical staff are strongly encouraged to take the NJIIS Fundamentals and other Advanced Training webinars that are offered.
- c. **Advanced Training Webinars:** There are four advanced trainings to cover a variety of more advanced functionality and reports.