



Immunization Registry Interface Implementation Process For Healthcare Providers

The Colorado Immunization Information System (CIIS) has the ability to accept immunization data directly from provider office Electronic Health Record (EHR) systems through one-way, HL7 (Health Level 7) batch file transfers. CIIS currently only accepts HL7 files formatted in version 2.3.1. This document outlines the various high-level phases of interface implementation. While the timeline of interface implementation may vary from one provider office to another, all providers will go through the phases described below in order to establish HL7 batch interfaces between their EHR and CIIS. *NOTE: Not all of the steps below are “owned” by the provider; some steps will be completed by the EHR vendor and CIIS staff.

Preparation Phase

The Preparation Phase can begin at any time.

1. [Contact CIIS](#) with interest in immunization registry interface and get on CIIS provider waitlist.
 - a. Supply EHR product name and version.
 - b. Indicate whether or not your provider office participates in the Centers for Medicare and Medicaid EHR Incentive Programs (Meaningful Use of certified EHR technology).
 - c. Complete CIIS legal paperwork (Letter of Agreement, Clinic Information Form, and Clinic Administrator Form), if not already completed.
2. Contact your EHR vendor to express your interest in an interface from their EHR product to CIIS and determine if any vendor fees apply.
3. Await contact from CIIS for implementation to begin.

Implementation Phase

The Implementation Phase begins after the EHR vendor has tested its interface with CIIS and has successfully met CIIS file formatting requirements using test data. All provider offices will follow the steps described below.

1. Participate in project kick-off call.
 - a. Coordinate timing of interface installation with EHR vendor prior to production testing.
 - b. Designate a staff member within clinic to be main contact for CIIS data validation process.
 - c. Discuss project timeline, including ongoing meetings, communications, milestones and file frequency.
2. Test interface using fake patient data from provider’s test environment.
 - a. EHR vendor successfully installs interface in provider’s local environment(s) (*may not be applicable for all implementations*).
 - b. EHR vendor or provider generates HL7 test message and sends to CIIS for formatting review until deemed successful.
3. Establish secure FTP account for file transfers to CIIS.
 - a. Work with CIIS staff to establish secure FTP account (*CIIS provides FTP license free-of-charge; FTP account may be vendor-based or provider-based depending on who will actually send ongoing data files to CIIS*).
 - b. Test the FTP connection with CIIS staff (*testing may be performed by vendor or provider depending on FTP account*).
4. Test interface using real patient data from provider’s production environment.
 - a. EHR vendor or provider generates HL7 test message using real patient data and sends to CIIS via secure FTP for CIIS review until deemed successful.
5. EHR vendor or provider generates file for data validation based on CIIS-specified parameters.
 - a. Provider pulls requested hardcopy patient records and submits them to CIIS for data validation.
 - b. CIIS staff performs review of submitted data and communicates any issues back to provider.
 - c. Provider works with CIIS staff to resolve issues.
 - d. Requirement is to achieve $\geq 95\%$ accuracy rate.
6. Support interface Go Live.
 - a. Work with EHR vendor in selecting Go Live date and communicate scheduled date to CIIS staff.
 - b. CIIS verifies receipt of enhanced data file submitted to registry on Go Live date.
 - c. Provider staff participates in CIIS training, if not already completed.
 - d. Send ongoing data files to CIIS on mutually-agreed-upon frequency.