VACCINATION DATA EXCHANGE WITH NEW MEXICO DEPARTMENT OF HEALTH

Editor	Date	Version	Changes
Chetan Sharma	01/07/2023	1.0	Initial Draft
Kathryn Cruz	01/11/2023	1.1	Reviewed

Purpose

The purpose of this document is to outline process of vaccination data exchange with New Mexico Department of Health and its impact on our community.

Intended Audience

New Mexico Department of Health program can refer to this document to obtain a high-level overview of the vaccination data flow within the department and how the program interacts with our providers for vaccination data exchange.

This document is intended for the vaccine providers, their integration team and system architects in the state of New Mexico who intend to be a data exchange participant with New Mexico's immunization registry (NMSIIS).

This document is also intended for someone who is interested in a high-level overview of how electronic vaccination data exchange with state's immunization registry (NMSIIS) facilitates retrieval of patient's historical vaccine data.

Definitions and Acronyms

NMSIIS: New Mexico Statewide Immunization Information System

VFC Program: The Vaccines for Children (VFC) program is a federally-funded program that provides vaccines at no cost to children who might not otherwise be vaccinated because of an inability to pay. It is based on an unprecedented approach to improving vaccine availability nationwide - making federally purchased vaccine available to both public and private immunization providers.

HL7: Health Level 7 refers to a set of international standards for transfer of clinical and administrative data between software applications used by various healthcare providers. The current CDC recommended version of HL7 messaging accepted by the NMSIIS program is version 2.5.1.

Assumptions

It is assumed that provider has the capability to submit the vaccination records electronically and request immunization history electronically from the state's immunization registry.

It is also assumed that the provider will be submitting vaccination data, and/or querying for historical vaccinations in the standard HL7 version 2.5.1 format.
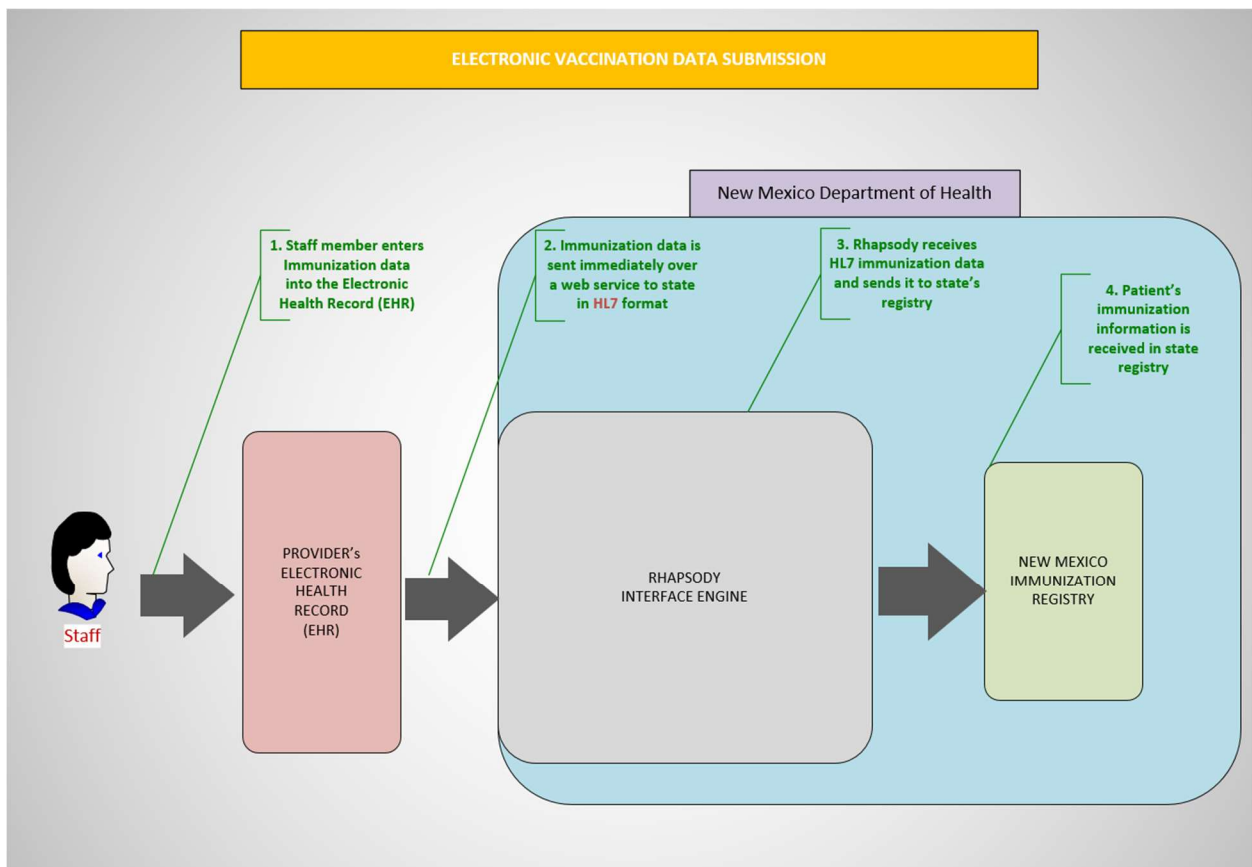
Please note: Any other non-standard HL7 data exchange request will need to be handled on a case-to-case basis.

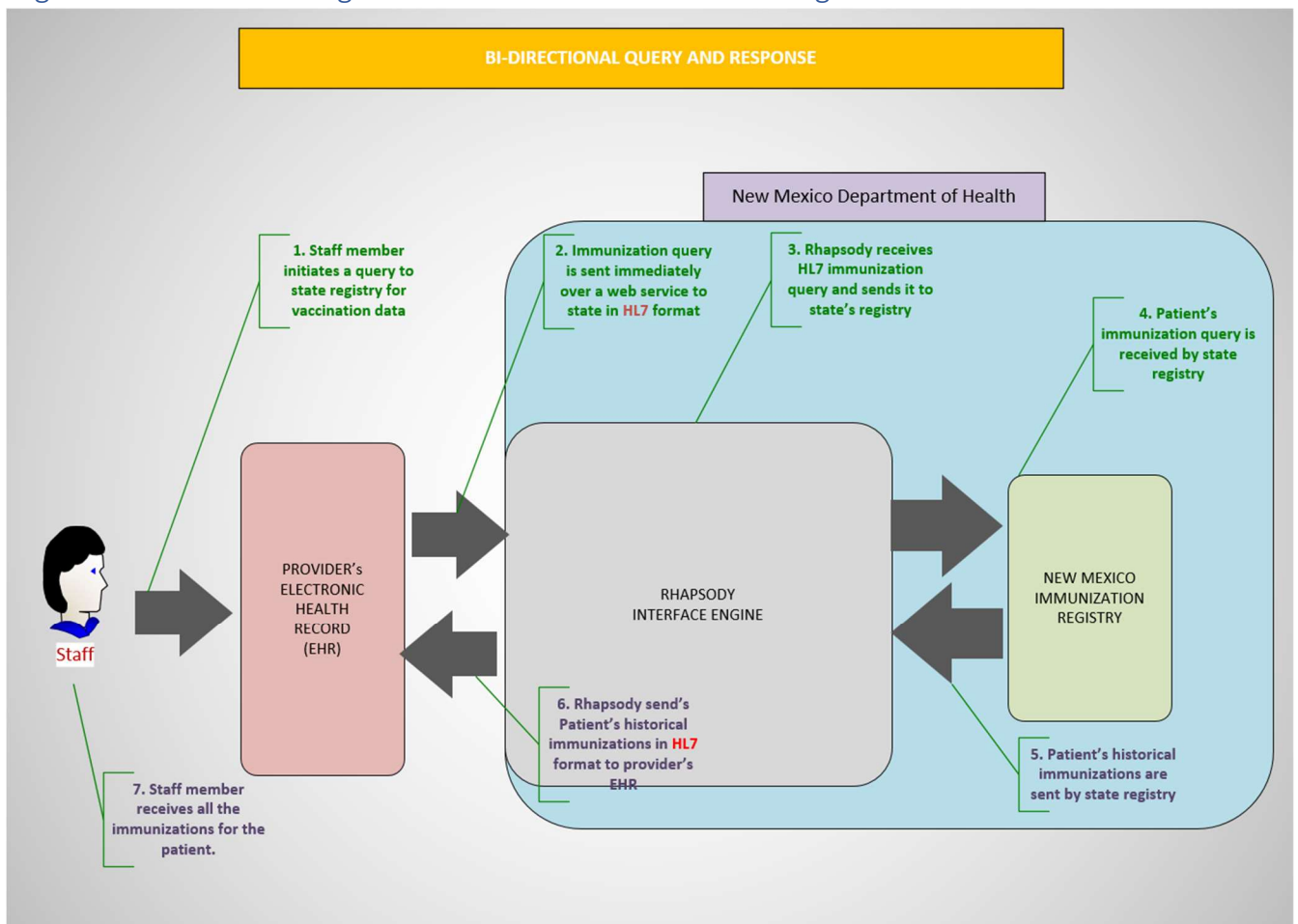## Electronic Vaccination Data Exchange with State Immunization Registry (NMSIIS)

Vaccination data exchange with NMSIIS is a two-fold process.

1) <u>Vaccination Data Submission</u>: Once enrolled in data exchange program, each provider will submit the vaccination data using standard HL7 messaging to the State registry.
2) <u>Bi-directional Data Exchange</u>: Providers will have the benefit of querying the state registry on a real time basis to get a holistic view of the patient's immunizations not only from their organization but also from other providers which can be reconciled in their electronic medical records.

High Level Data Flow Diagram for Electronic Vaccination Data Submission

High Level Data Flow Diagram for Bi-Directional Data Exchange

BI-DIRECTIONAL QUERY AND RESPONSE

New Mexico Department of Health

1. Staff member initiates a query to state registry for vaccination data

2. Immunization query is sent immediately over a web service to state in HL7 format

3. Rhapsody receives HL7 immunization query and sends it to state's registry

4. Patient's immunization query is received by state registry

PROVIDER's ELECTRONIC HEALTH RECORD (EHR)

RHAPSODY INTERFACE ENGINE

NEW MEXICO IMMUNIZATION REGISTRY

Staff

6. Rhapsody send's Patient's historical immunizations in HL7 format to provider's EHR

5. Patient's historical immunizations are sent by state registry

7. Staff member receives all the immunizations for the patient.

Vaccines for Children Program

The Vaccines for Children (VFC) program is a federally-funded program that provides vaccines at no cost to children who might not otherwise be vaccinated because of an inability to pay. It is based on an unprecedented approach to improving vaccine availability nationwide - making federally

purchased vaccine available to both public and private immunization providers.

- The program was officially implemented in October 1994 as part of the President's Childhood Immunization Initiative.
- The VFC program, as a component of each state's medical assistance plan, is a Title XIX Medicaid program.
- VFC covers vaccines recommended by the Advisory Committee on Immunization Practices (ACIP).
- Medicaid-eligible children and those providers who provide care to the Medicaid population (i.e., Medicaid providers) represent the majority of VFC federal vaccine-eligible children and VFC providers.
- It also includes other VFC program-enrolled providers and the other VFC-eligible children who qualify.

Vaccines for Children

Protecting America's children every day

The Vaccines for Children (VFC) program helps ensure that all children have a better chance of getting their recommended vaccines. VFC has helped prevent disease and save lives.

CDC estimates that vaccination of children born between 1994 and 2021 will:

prevent **472 million** illnesses
(29.8 million hospitalizations)

more than the current population of the entire U.S.A.

help avoid **1,052,000** deaths

greater than the population of Seattle, WA

save nearly **$2.2 trillion** in total societal costs
(that includes $479 billion in direct costs)

more than $5,000 for each American

Updated 2021 analysis using methods from "Benefits from Immunization during the Vaccines for Children Program Era - United States, 1994-2013".

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