

EHR Data Exchange HL7 Terms and Acronyms

ACRONYM/TERM	MEANING
ACK message	When the IIS receives and processes the VXU message, it responds with an acknowledgement message back to the sender.
Bi-directional	Electronic data exchange between an Electronic Health Record (EHR) system and IIS where the EHR reports administered doses to the IIS (VXU) and can electronically request patient records (complete immunization history) from the IIS (query/response). <i>(Note: uni-directional is EHR reporting to the IIS only)</i>
CVX	Vaccine Administered. A code set maintained by the CDC that represents all active and inactive vaccines available in the US. CVX codes for inactive vaccines allow for transmission of historical immunization records.
EHR or EMR	Electronic Health Record or Electronic Medical Record. The systematic collection of patient and population health information in a digital format. EHRs eliminate the need to track down a patient's previous paper medical records and assists in ensuring data is accurate and legible. Data can be exchanged electronically between the EHR and other data collection/reporting systems.
Electronic Data Exchange (EDE)	Automated methods of data exchange between Electronic Health Records (EHR) and other sources, for example an IIS.
HIE	Health Information Exchange (HIE) networks. HIEs help to facilitate the exchange of data between EHRs and other data collection/reporting systems by acting as a centralized hub for data transport, and in some cases, data collection.
HL7	A common messaging standard. For EHRs to be able to connect to an IIS, providers must adopt, implement, or upgrade their EHR to ONC-certified software capable of communicating using the Health Level 7 (HL7) standard protocol version 2.5.1.
HL7 Version 2.5.1 Implementation Guide (IG)	A document developed by the CDC that further constrains the HL7 standard for specific use in immunization messaging.
IIS	Immunization Information System. Designed to serve as a central repository for consolidated immunization records. Modern IIS include tools and resources to support various activities of the jurisdiction's immunization program operations. NMSIIS is the IIS for New Mexico.
Interface	A link between separate data source environments to facilitate the exchange of data. Examples: Vital Records, EHR-IIS, VTrckS ExIS.
Interoperability	The ability for data systems to exchange and make use of shared information.

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National Drug Code (NDC)	<p>The NDC, or National Drug Code, is a unique 10-digit or 11-digit, 3-segment number, and a universal product identifier for human drugs in the United States used to indicate a specific vaccine product.</p> <ul style="list-style-type: none"> The first set of numbers in the NDC identifies the labeler (manufacturer, repackager, or distributor). The second set of numbers is the product code, which identifies the specific strength, dosage form (i.e., capsule, tablet, liquid) and formulation of a drug for a specific company. <p>The third set is the package code, which identifies package sizes and types.</p>
NIST	<p>National Institute for Standards and Technology. Provides testing tools and resources to ensure consistent and conformant implementation of the HL7 v2.5.1 Implementation Guide for Immunization Messaging. These tools are used to determine NMSIIS onboarding readiness. NIST also provides tools that can test conformance with the CDC WSDL.</p>
Query and Response (QBP/RSP)	<p>A request for a patient’s immunization record issued electronically by an EHR (QBP) that results in a match selection and data response from the IIS (RSP). The EHR can then choose to reject the match, view the response, or consume the response into the EHR.</p>
SOAP Web Services (Transport)	<p>Simple Object Access Protocol (SOAP) is the preferred transport protocol for transmitting immunization data via HL7 messages. SOAP Web Services utilizing the CDC-defined WSDL is the currently endorsed standard for connectivity and transport.</p>
Threshold	<p>A performance measurement established by NM DOH Immunization Program to determine whether a prospective interface achieves an acceptable level of message conformance and data quality for production approval.</p>
Transport protocol	<p>The rules for establishing a connection and moving data between two systems.</p>
Vendor (EHR, EMR)	<p>An entity (business, company, corporation, etc.) which develops and/or distributes electronic medical record and/or electronic health record software.</p> <p>Examples are EPIC, NextGen, AllScripts, AthenaHealth, Greenway, etc.</p>
VXU	<p>Unsolicited Vaccine Update (VXU) message. The EHR sends VXU messages to the IIS to provide information about a vaccination encounter with a patient.</p>
WSDL	<p>Web Services Definition Language. A machine-readable contract between the sender and receiver to establish a secure connection for data transmission. SOAP Web Services utilizing the CDC-defined WSDL is the currently endorsed standard for transmitting immunization messages via HL7.</p>