



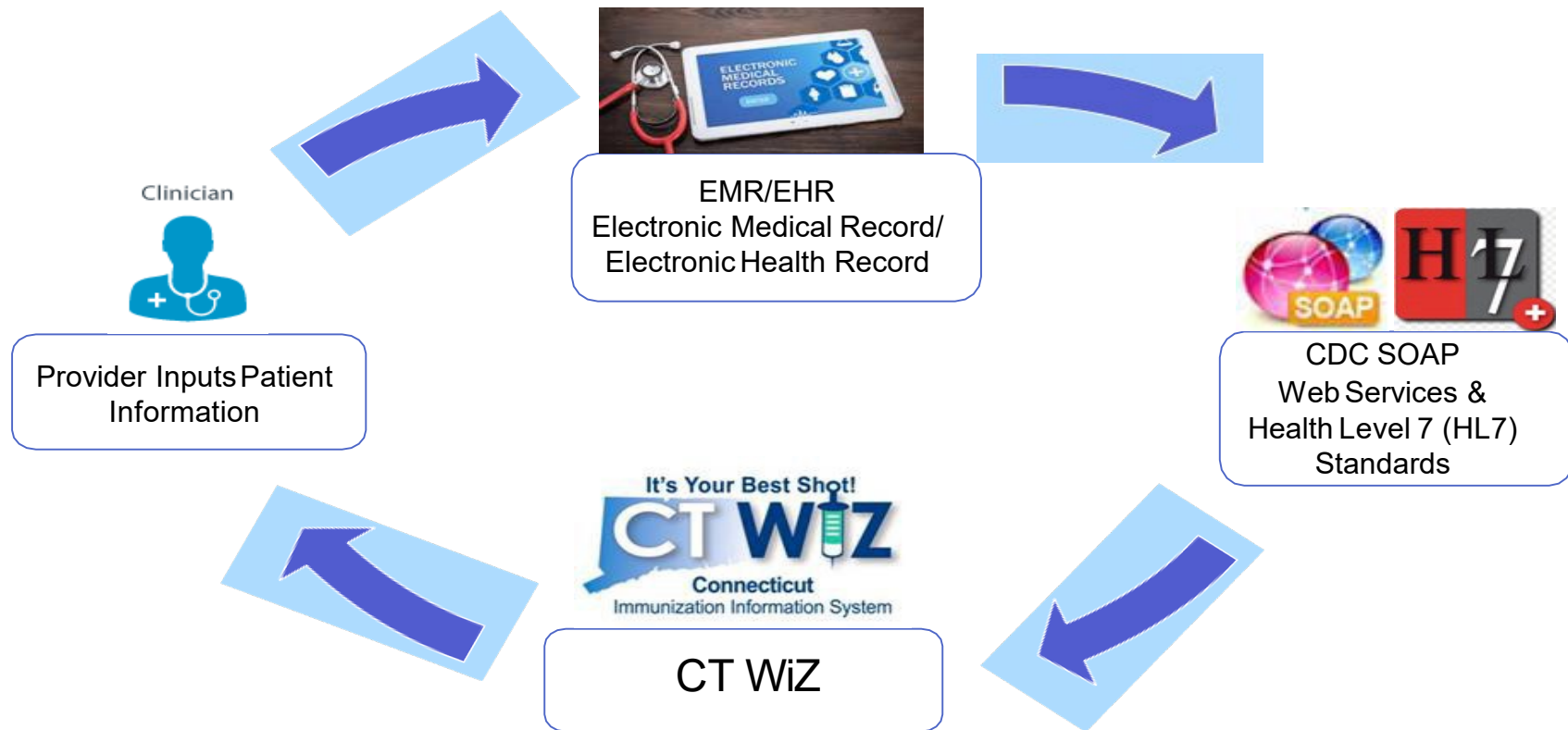
HL7 Management Guide in CT WiZ User Interface

July 2025 V.2.0

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Introduction to EHR Interface (HL7) Cycle



Introduction to EHR Interface - HL7 Messaging

How an EHR Interface - HL7 message works:

- HL7 (Health Level Seven) is a set of standards that facilitate the electronic transmission of healthcare data between applications. It is not an application or software, but it is a framework that supports interoperability between systems.
- EHRs create an electronic message with patient demographics and immunization information using HL7 messages.
- CT WiZ receives the message and sends an acknowledgement (ACK) message back to the EHR saying "Got the Message" in the HL7 message format.
- CT WiZ reviews the message to ensure it has all the required information and it is correct.
- Any incorrect information triggers a warning or an Application Error message (AE) or Application Reject-message did not load (AR) that is sent back to the EHR for review.
- All the exchange of messages is done in the HL7 message format which is translated through the EHR.

Tools for Using HL7 in CT WiZ

- As a part of ongoing data quality monitoring of HL7 message submissions, it is necessary to review ACK messages for errors and warnings. To help you with this process, CT WiZ includes:
- Tools: Message Log, Security Log, and Documentation.
- Reports for interface activity: Message Count and the Data Quality Analysis (DQA) for Patient's Vaccination reports, etc.
- **On daily basis**, the provider/vendor should review the ACK log to confirm messages are being transmitted to CT WiZ and to review all errors and warnings.



Connecticut's Immunization Information System

Please enter
your Clinic's
Username &
Password
provided for
CT WiZ

Login

Username

Password

[Forgot Password?](#) | [Forgot Username?](#)

Login

[Trouble Logging in?](#)

[Request User Account](#)

By logging into CT WiZ, you agree to abide by the terms of the Connecticut Department of Health (DPH) that were outlined in your User Confidentiality Agreement. Users are responsible for ensuring they act in accordance with these terms and any other applicable policies. The recipient shall notify DPH of a violation of these policies in accordance with the terms outlined in the User Confidentiality Agreement. Only authorized users of this site may access this system. Monitoring may be conducted for the protection against improper or unauthorized use or access. Any unauthorized and improper use of this system may result in disciplinary action or criminal and civil penalties.

Need additional help with logging into your CT WiZ account?

- Submit a help desk ticket at: <https://dph-cthelpdesk.ct.gov/Ticket> and select:

- System "Immunizations (CT WiZ)"
- Category "CT WiZ Login (Username or Password Issues)"
- Topic "Existing CT WiZ user - Username or Password Issues" or topic "Update CT WiZ Account"



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Provider & Clinic

CT WiZ

CT DPH CLINIC, CT DPH CLINIC, PATIENT SEARCH

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HL7 Management

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Click on the "i" icon for more information.

Select your Provider & Clinic

Default Provider/Clinic

Provider/Clinic *

[CT DPH CLINIC] CT DPH CLINIC - CTDPH ()

Select a clinic by typing Provider, Clinic, VTrckS PIN, or Clinic Code

News

CT WiZ will be down

Posted on 06/17/2025 by OMAR LYN

On **07/14/2025 CT WiZ will be down between 8:00 pm and 10:00 pm** for a new release. Please plan your entry and electronic querying accordingly.

Expired COVID-19 Vaccines

Posted on 05/29/2025 by OMAR LYN

Reminder: Expired COVID-19 Vaccines

If your clinic has COVID-19 doses that expired, please complete a [return in CT WiZ](#) to receive a shipping label to return the expired doses. Expired doses should **not** be adjusted out and need to be returned to the manufacturer.

Patient Eligibility Screening

Posted on 10/04/2023 by ALEJANDRA ARIAS

Please review [Patient Eligibility Screening Cheat Sheet](#) for how to screen and report eligibility. This now includes adults.

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HL7 Message Log

CT WIZ

CT DPH CLINIC, CT DPH CLINIC

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ALEX

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HL7 Message Log

View Security Log

HL7 Documentation

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Learn More

Search

Search Criteria

Facility : ALL FACILITIES

BEGIN TYPING FACILITY HERE

Log IDBatch Log IDPatient

Log TypeMessage TypeVersionAcknowledgement CodeMessage TextCustom Acknowledgement Code

From DateFrom TimeTo DateTo TimeMSH 22 : Responsible Sending Organization

Step 1: Select HL7 Management

Step 2: Select HL7 Message Log

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HL7 Message Log

CT WiZ CT DPH CLINIC, CT DPH CLINIC PATIENT SEARCH Support Notifications ALEX

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Home Patients Immunizations Education Inventory Clinic Tools Reports Tasks HL7 Management HL7 Message Log View Security Log HL7 Documentation

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HL7 Message Log

Step 1: Select your Facility

Step 2: Select Message Type from the drop down

Step 3: Select Acknowledgement Code Message Text as appropriate

Step 4: Select the From and To Date

Step 5: Hit Search

Search

Search Criteria

Facility : ALL FACILITIES
BEGIN TYPING FACILITY HERE

Log ID Batch Log ID Patient

Log Type Message Type Version Acknowledgement Code Message Text Custom Acknowledgement Code

AA AE AR AA AI AW AE AF AR

From Date From Time To Date To Time MSH 22 : Responsible Sending Organization
07/09/2025 12:00 AM (HH:MM A/P) 07/09/2025 11:59 PM (HH:MM A/P) BEGIN TYPING FACILITY HERE

***Notes**

- **AA= Application Accepted** - good message.
- **AE= Application Error** - message has problems that need to be fixed.
- **AR= Application Reject** - message didn't load.

HL7 Message Log - Analyzer

You are directed to a pop-up. If you do not see the pop-up, check the pop-up blocker setting in your internet browser. Errors and more details about the HL7 message are displayed.

ACK Code: **AE**

Log ID: **603752**

Date: **06/15/2020**

Log Type: **GET**

Message Type: **VXUV04**

Operations

Custom ACK: **AE**

Patient ID: **976711**

Version: **2.5.1**

Engine: **V2**

Security Log ID: **1656248**

Incoming Request

Outgoing Response

Message Map

VXUV04

- MSH
- PID
- PD1
- ORDER

Message Code

Select a Theme to save your default **LIGHT WITH SYNTAX**

```
1 MSH|^~\&|EEHR|CT9999|CTW1Z|CT0000|20200615114354-0400||VXU^V04^VXU_V04|2020061511435400|
2 PID|1||7372230^^^CT0117^MR||Mouse^Minnie^^^^^L||20160415|M||2131-1^Unknown^CDCREC|330 0
3 PD1||||||||||||||A|20200615|
4 ? ORC|RE||41463723300143^CT9999|||||^Donald^Duck^^^^^^L||1255344321^Goofy^A E Smith^^^
5 ? RXA|0|1|20200615114200|20200615114200|130^DTaP-IPV^CVX^58160-0812-43^Kinrix Intramuscul
6 RXR|C28161^Intramuscular^NCIT|LD^Left Upper Arm^HL70163
7 OBX|1|DT|29768-9^Date vaccine information published^LN|1|20180824|||||F||20200615
8 OBX|2|DT|29769-7^Date vaccine information statement presented^LN|1|20200615|||||F||20
9 ? OBX|2|CE|((find a LOINC Code)^Vaccine funding program eligibility category^LN|2|V02^Medi
10
```

Ln 4 Col 1 ORDER[0]

[Done!]

Search: Type: [clear]

Problem

Type

ERROR

— If RXA-20 is valued "CP" or "PA" and the first occurrence of RXA-9.1 (Administration Note code) is valued "00" then the message SHALL include an OBX segment associated with the RXA with OBX-3.1 shall equal "64994-7" indicating Funding Eligibility.

Line #: 4

Column: null

Start #: null

Column: null

End #: null

HL7 Path: ORDER[0]

Diagnostic NumericPath: . NamePath: ORDER[0]. RuleId: . ApplicationErrorCode: IZ-23 (Error Severity increased due to this being a new

Info: immunization for a location that participates in electronic inventory decrementing)

Click on the Security Log ID to get the Search Criteria

Click on the Error tab to get the error in the message code box

For more information about the different errors, please refer the Delta Guide.

View Security Log

- The Security Log gives more detailed information on the HL7 message.
- This screen allows for the monitoring of connections to the web service (CT WiZ HL7 Message Analyzer).
- It can be used to search a particular message using the Message ID, Message Text or/and Date Range.
- It can be used to view all the data, monitor the connections to the web services and to view who is submitting the messages.

View Security Log - How It Works?

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HL7 Management

HL7 Message Log

View Security Log

HL7 Documentation

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HL7 Security Log

Search Criteria

Message Id

Message Text

Log Type

Function Name

EXECUTE HL7 MESSAGE
EXECUTE HL7 MESSAGE BYTE
EXECUTE HL7 MESSAGE WITH LOGIDS (INTERNAL)
SUBMIT SINGLE MESSAGE (CDC STANDARD)
CONNECTIVITY TEST (CDC STANDARD)
UNSUPPORTED OPERATION (CDC STANDARD)
GENERATE VXU

From Date

From Time

To Date

To Time

07/09/2025

12:00 AM

07/09/2025

11:59 PM

Previous Criteria

Clear

Search

Step 1: Click on View Security Log

Step 2: Enter the Security Log ID/Message Text or Date to search, which can be obtained from the particular HL7 message you wish to address.

Step 3: Click Search

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HL7 Documentation

- The HL7 Documentation screen provides a quick reference regarding HL7 messages, including field definitions and validation tables.
- It can be used to search for a specific message, field, or a component.



- 1 Message**
A clinical encounter may generate multiple HL7 messages. Each message type supports a specific immunization messaging need. Common message types include immunization event (VXU) and acknowledgment (ACK) messages. The example shows an excerpt of a VXU message.
- 2 Segment**
Messages are made up of multiple segments. Each segment transmits a set of related data. The example highlights the patient identifier segment (PID) which transmits identification information about the patient.
- 3 Field**
Segments are made up of multiple fields, separated by a vertical bar (|). Each field transmits a specific piece of data, like the patient's date of birth. Fields are commonly referred to by the segment abbreviation and position number within the segment. The example shows the PID-5 field, which is the patient's name.
- 4 Component**
Fields can be made up of multiple components, separated by a caret (^). Components can be referred to using the field abbreviation plus a decimal for the component position. The example shows the PID-5.3 segment, which is the patient's first name.

HL7 Documentation

- **For each message searched**, the HL7 Documentation tab breaks down to each field and component of the message with more details.
- **For each field searched**, the HL7 Documentation tab breaks down to each component of the field with more details.
- **For each component searched**, the HL7 Documentation tab gives more details about the component.
- **For more information on the HL7 message breakdowns**, please refer to the delta guide on the [CT WiZ Onboarding website](#).

HL7 Documentation

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HL7 Index // 2.5.1 // VXUV04

HL7 Documentation

Navigate using hyperlinks in the grid, or breadcrumb. You can also type into the search bar any documentation you are trying to research.

Search

BEGIN TYPING MESSAGE, SEGMENT, OR FIELD

VXUV04

#	Seg	Min Rep	Max Rep	Usage	Description
		1	1	R	Message Header Segment
		0	Infinite	O	Software Segment
		1	1	R	Patient Identification Segment
4	PU1	0	1	O	Additional Demographics
5	NK1	0	Infinite	O	Next of Kin/Associated Parties
6	PATIENT	0	1	O	PATIENT Group
7	PV1	1	1	R	Patient Visit
8	PV2	0	1	O	Patient Visit - Additional Info
9	GT1	0	Infinite	O	Guarantor
10	INSURANCE	0	Infinite	O	INSURANCE Group
11	IN1	1	1	IX	Insurance
12	IN2	0	1	IX	Insurance Additional Info
13	IN3	0	1	IX	Insurance Add'l Info - Cert.
14	ORDER	0	Infinite	O	ORDER Group
15	ORC	1	1	R	Common Order
16	TIMING	0	Infinite	O	TIMING Group
17	TQ1	1	1	R	Timing/Quantity
18	TQ2	0	Infinite	O	Timing/Quantity Order Sequence
19	RXA	1	1	R	Pharmacy Administration Segment
20	RXR	0	1	O	Pharmacy Route
21	OBSERVATION	0	Infinite	O	OBSERVATION Group

Step2: Type the message, segment or field of which information you want

Step 3: Click on any of these hyperlinks for more detailed information

Step1: Click on HL7 Documentation

Reports

Reports: Interface Activity-Clinic

CT WIZ HL7 UNIT TEST PROVIDER, HL7 UNIT TEST CLINIC PATIENT SEARCH

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2020 Early Releases

Reports [Learn More](#)

Patient

- IZ History/Risk/Recommendations
- Official Immunization Record
- Patient Administrative Record

Forms / Informational Documents

- ACIP Child and Adolescent Immunization Schedule
- ACIP Adult Immunization Schedule
- Clinic Contact Listing
- Product Listing
- Vaccine Information Statements (VIS)

CT Forms and Resources

- Training Materials
- Technical Support
- Application Help

Patient Management

- Birth Vaccinations
- Inactivate Patients
- Patient Detail with Services
- Patient List By Insurance Source
- Patient List/Counts By Clinic Report
- Patient Reminder/Recall
- Patient Roster
- Patient VFC Eligibility History
- Patients By Birth Facility Type
- Patients First Seen
- Patients with Active Exemptions
- Patients with Adverse Reactions
- Patients with Notes
- Patients with Vaccine Refusals
- Patients with Vaccine Refusals - Datamart
- Vaccine Recall
- Patients with Precautions / Contraindications

Interface Activity - Clinic

- HL7 Acknowledgement (ACK) Messages
- HL7 Activity
- HL7 Activity - Datamart
- HL7 Facility Codes
- HL7 Message Count
- DQA Patient Vaccination Report
- HL7 Messages by ACK Message

Step 1:
Select
Reports

Step 2: Scroll down to the
bottom to access HL7
reports in the Interface
Activity-Clinic section

HL7 Acknowledgement Messages (ACK) Report

- Generates a list of ACK messages based on the selection criteria.
- This report searches the HL7 Message Log for any Acknowledgement (ACK) messages that match the search criteria.

The screenshot shows the 'HL7 Acknowledgement (ACK) Messages' report generation interface. On the left is a sidebar with navigation links: Home, Patients, Immunizations, Education, Inventory, Clinic Tools, Reports, and HL7 Management. The main content area is titled 'HL7 Acknowledgement (ACK) Messages' and contains a text box with instructions: 'Enter the selection criteria and click "Run Report" or click "Cancel" to return to the previous page.'

Below the instructions is the 'Report Selection Criteria' section, which includes the following fields and options:

- Provider ***: A dropdown menu with 'HL7 UNIT TEST PROVIDER' selected.
- Receiving Facility Code ***: A dropdown menu with 'CT9999' selected.
- Clinic ***: A dropdown menu with 'HL7 UNIT TEST CLINIC' selected.
- Sending Facility Code**: A text input field with 'CT0000 -'.
- Batch Log ID**: A text input field.
- Acknowledgement Code**: Three checkboxes labeled 'AA', 'AE', and 'AR', all of which are checked.
- Patient**: A text input field.
- Message Text**: A search field with a magnifying glass icon and a red 'X' icon.
- From Date**: A date picker with '06/17/2020' selected.
- From Time**: A time picker with '12:00 AM' selected.
- To Date**: A date picker with '06/17/2020' selected.
- To Time**: A time picker with '11:59 PM' selected.
- Output Type**: A radio button labeled 'EXTRACT' and a text input field for the 'Delimiter' with a comma ','.
- Custom Acknowledgement Code**: A section with checkboxes for 'AA', 'AI', 'AW', 'AE', 'AF', and 'AR', all of which are unchecked.

At the bottom right of the form are two buttons: 'Run Report' (in blue) and 'Cancel' (in grey).

Five yellow boxes with red arrows point to specific elements, labeled as follows:

- Step 1:** Select your Clinic (points to the Clinic dropdown menu).
- Step 2:** Select your Facility Code (points to the Receiving Facility Code dropdown menu).
- Step 3:** Check the errors for which you want to run reports (points to the Acknowledgement Code checkboxes).
- Step 4:** Select the Date Range (points to the From Date and To Date date pickers).
- Step 5:** Run Report (points to the Run Report button).

HL7 Activity Report

This report generates a summary of HL7 activity per provider/clinic. It calculates all the types of messages processed from the provider/clinic specified.



HL7 Activity

Enter the selection criteria for the report or click "Cancel" to return to the previous screen.

Step 1: Select the Provider/clinic

Step 2: Select the Facility Code

Report Selection Criteria

Provider *
HL7 UNIT TEST PROVIDER

Facility Code *
CT9999

Clinic *
HL7 UNIT TEST CLINIC

User
[Dropdown]

EHR Vendor
(ALL VENDORS)

EHR Product
[Dropdown]

Message Type
(ALL)

From Date 06/02/2020 **From Time** 12:00 AM (HH:MM A/P) **To Date** 06/17/2020 **To Time** 11:59 PM (HH:MM A/P)

Output Type ☒ PDF ☐ EXTRACT - Delimiter: |

Run Report **Cancel**

Step 4: Run Report

Step 3: Select the Date Range

HL7 Activity Report (Output)

This report displays and explains the number of HL7 messages of different types that were sent and received.



CT WIZ HL7 Activity

June 17, 2020

Provider = HL7 UNIT TEST PROVIDER, Clinic = HL7 UNIT TEST CLINIC, HL7 Facility = CT9999, EHR Vendor = (ALL VENDORS), From Date = 06/02/2020, From Time = 12:00 AM, To Date = 06/17/2020, To Time = 11:59 PM

HL7 UNIT TEST PROVIDER (2)

HL7 UNIT TEST CLINIC (2) - HL7_UNIT_TST

HL7 Facility Code: CT9999

Username:

HL7_UNIT_TEST_USER

Message Type	Log Type	# of Calls	First Call	Last Call
VXQV01	Received	0		
VXRV03	Sent	0		
VXXV02	Sent	0		
VXUV04	Received	12	Jun 9 2020 10:43AM	Jun 16 2020 9:53AM
QBPQ11	Received	0		
QCKQ02	Sent	0		
RSPK11	Sent	0		
ORUR01	Received	0		
ACK - AA	Sent	4	Jun 9 2020 10:45AM	Jun 12 2020 12:49PM
ACK - AE	Sent	8	Jun 9 2020 10:43AM	Jun 16 2020 9:53AM
ACK - AR	Sent	0		
BATCH		0		
HL7 Facility Code CT9999 Total:		24		
Clinic HL7 UNIT TEST CLINIC (2) Total:		24		
Provider HL7 UNIT TEST PROVIDER (2)		24		
Total:				

HL7 Activity Report Message Type Definitions

Message Type	Definition
VXQV01	N/A
VXRV03	N/A
VXXV02	N/A
VXUV04	Unsolicited vaccination record update
QBPQ11	Bi-directional Query – Query Parameter Definition
QCKQ02	N/A
RSPK11	Bi-directional Response - Segment pattern response
ORUR01	N/A
ACK-AA	Acknowledgement for Application Accepted
ACK-AE	Acknowledgement for Application Error
ACK-AR	Acknowledgement for Application Reject

HL7 Activity- Datamart

This report generates a summary of HL7 activity per Provider/Clinic.

- Calculates all the types of messages processed from the Provider/Clinic specified.
- Data for this report is refreshed nightly and will only reflect information as of the previous day.

The screenshot shows the 'HL7 Activity - Datamart' report selection interface. On the left is a sidebar with a logo 'It's Your Best Shot! CTWIZ Connecticut Immunization Information System' and a menu with options: Home, Patients, Immunizations, Education, Inventory, Clinic Tools, Reports, and HL7 Management. Below the menu is version and copyright information. The main area is titled 'HL7 Activity - Datamart' and contains a 'Report Selection Criteria' form. Four yellow callout boxes with red arrows indicate the steps: Step 1 points to the 'Provider' dropdown (set to 'HL7 UNIT TEST PROVIDER'); Step 2 points to the 'Facility Code' dropdown (set to 'CT9999'); Step 3 points to the 'From Date' and 'To Date' fields (set to '06/02/2020' and '06/18/2020' respectively); Step 4 points to the 'Run Report' button. The form also includes fields for 'Clinic' (set to 'HL7 UNIT TEST CLINIC'), 'User', 'EHR Vendor' (set to '(ALL VENDORS)'), 'EHR Product', and a 'Message Type' list with options: (ALL), BATCH - BATCH MESSAGE, ACK - ACKNOWLEDGEMENT, ORUR01 - UNSOLICITED TRANSMISSION OF AN OBSERVATION, and QBPQ11 - QUERY BY PARAMETER REQUESTING AN RSP SEGMENT PATTERN RESPONSE. A note below the message types says 'Note: Hold the Ctrl key to select multiple items.' The 'Output Type' section has radio buttons for 'PDF' (selected) and 'EXCEL'. A 'Run Report' button and a 'Cancel' button are at the bottom right.

Step 1: Select the Provider/clinic

Step 2: Select the Facility Code

Step 3: Select the Date Range

Step 4: Run Report

HL7 Activity- Datamart (Output)

- PDF output includes totals by Message Type, Facility Code, Clinic, and Provider.
- The report calculates all the types of messages processed from the Provider/Clinic specified.
- This report runs against the CT WiZ DataMart query database, which is refreshed the night before. Therefore, the data is not as current as the CT WiZ production database, but by querying a separate database, large amounts of data can be retrieved without impacting the performance of production.



CT WiZ HL7 Activity - Datamart

Provider = HL7 UNIT TEST PROVIDER, Clinic = HL7 UNIT TEST CLINIC, HL7 Facility = CT9999, User = (ALL USERS), EHR Vendor = (ALL VENDORS), EHR Product = (ALL EHR PRODUCTS), Message Type = 0, From Date = 06/02/2020, To Date = 06/18/2020

HL7 UNIT TEST PROVIDER (2)

HL7 UNIT TEST CLINIC (2) - HL7_UNIT_TST

HL7 Facility Code: CT9999

EHR Vendor: UNDEFINED

Username: HL7_UNIT_TEST_USER

EHR Product: UNDEFINED

Message Type	Log Type	# of Calls
ACK	AA	4
ACK	AE	8
ACK	AR	0
BATCH	UNDEFINED	0
ORUR01	UNDEFINED	0
QBPQ11	UNDEFINED	0
QCKQ02	UNDEFINED	0
RSPK11	UNDEFINED	0
VXQV01	UNDEFINED	0
VXRV03	UNDEFINED	0
VXUV04	UNDEFINED	12
VXXV02	UNDEFINED	0
HL7 Facility Code CT9999 Total:		24
Clinic HL7 UNIT TEST CLINIC (2) Total:		24
Provider HL7 UNIT TEST PROVIDER (2) Total:		24

HL7 Facility Codes

- The report generates a list of HL7 facility codes based on the criteria set.
- This unique code represents the setting where the encounter occurred. In this case, it is the facility who provided the vaccination service.

The screenshot shows the 'HL7 Facility Codes' report generation interface. On the left is a sidebar with a logo 'It's Your Best Shot! CTWIZ Connecticut Immunization Information System' and a menu with items: Home, Patients, Immunizations, Education, Inventory, Clinic Tools, Reports, and HL7 Management. Below the menu is version information: 'Version 20.2.20200331 Copyright © 2001-2020 Envision Technology Partners Inc. Third Party Software'. The main area is titled 'HL7 Facility Codes' and contains a search bar with the text 'Enter the selection criteria' and a 'Cancel' button. Below this is the 'Report Selection Criteria' section with various dropdown menus and input fields. Three yellow callout boxes with red arrows indicate the steps: 'Step 1: Select the Provider/clinic' points to the 'Provider' dropdown (set to 'HL7 UNIT TEST PROVIDER'); 'Step 2: Select the Date Range' points to the 'HL7 Facility Code Last Modified Date Range' section (set to 'From: 06/01/2020 Through: 06/18/2020'); and 'Step 3: Run Report' points to the 'Run Report' button at the bottom right. Other criteria include 'Clinic' (set to 'HL7 UNIT TEST CLINIC'), 'User' (set to 'USER, HL7 UNIT TEST (-)'), 'EHR Vendor' (set to '(ALL VENDORS)'), 'EHR Product', 'Status Code', 'Read Only Access', 'Sort Order' (set to 'DISPLAY ORDER'), and 'Output Type' (set to 'PDF').

Step 1: Select the Provider/clinic

Step 2: Select the Date Range

Step 3: Run Report

HL7 Facility Codes (Output)

- This report generates Provider, Clinic, Facility Code, Facility Name, HL7 User, Status, User created/last updated by with date/time, read-only flag, and EHR Product.
- It shows the status of the clinic: whether it is active, in read-only mode, and whether the data is received in batches.



CT WIZ HL7 Facility Codes

June 18, 2020

Provider = (ALL PROVIDERS), Clinic = (ALL CLINICS), Sort Order = DISPLAY ORDER, EHR Vendor = (ALL VENDORS)

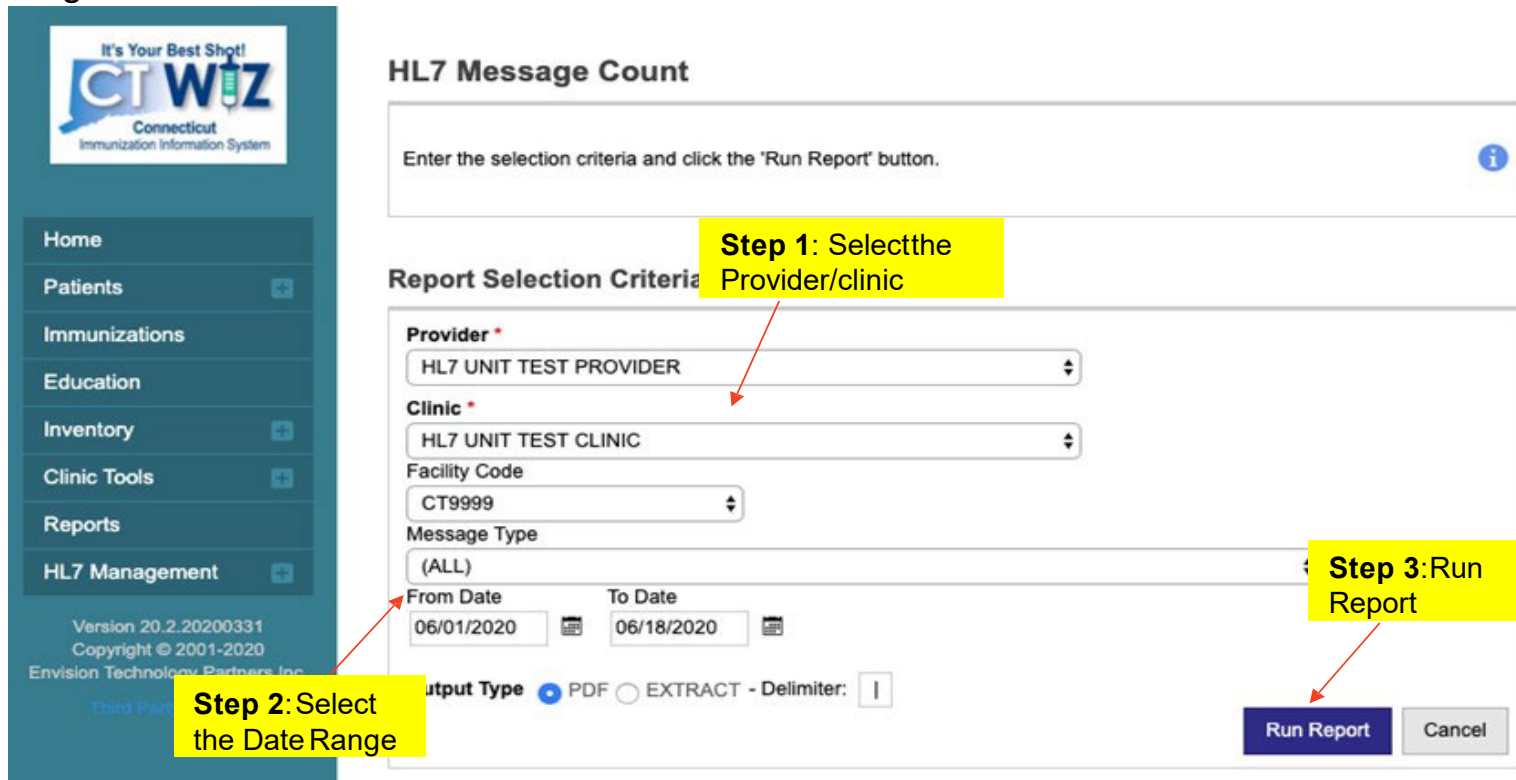
Provider	Clinic	Facility Code	Facility Name	HL7 User	Status	Read Only	Receives Batches
HL7 UNIT TEST PROVIDER	HL7 UNIT TEST CLINIC	CT9999	CONNECTICUT TEST FACILITY	HL7 UNIT TEST USER	A	N	N
EHR Vendor:		EHR Product:					

Created By: SYSTEM ADMINISTRATOR on 09/14/2018
Modified By: ALEJANDRA ARIAS on 09/17/2019 08:45:5

Comments: HL7 UNIT TEST FACILITY

HL7 Message Count

This report queries the selected facility to display the number of HL7 messages sent during the defined date range.



The screenshot shows the 'HL7 Message Count' report interface. On the left is a sidebar with navigation links: Home, Patients, Immunizations, Education, Inventory, Clinic Tools, Reports, and HL7 Management. The main content area is titled 'HL7 Message Count' and contains a text box with the instruction: 'Enter the selection criteria and click the 'Run Report' button.' Below this is the 'Report Selection Criteria' section, which includes dropdown menus for 'Provider' (selected: HL7 UNIT TEST PROVIDER), 'Clinic' (selected: HL7 UNIT TEST CLINIC), 'Facility Code' (selected: CT9999), and 'Message Type' (selected: (ALL)). There are also date pickers for 'From Date' (06/01/2020) and 'To Date' (06/18/2020). At the bottom, there is an 'Output Type' section with radio buttons for 'PDF' (selected) and 'EXTRACT', and a 'Delimiter' dropdown set to '|'. A 'Run Report' button and a 'Cancel' button are at the bottom right. Three yellow callout boxes with red arrows indicate the steps: 'Step 1: Select the Provider/clinic' points to the Provider dropdown, 'Step 2: Select the Date Range' points to the From Date date picker, and 'Step 3: Run Report' points to the Run Report button.

HL7 Message Count

Enter the selection criteria and click the 'Run Report' button.

Report Selection Criteria

Provider *
HL7 UNIT TEST PROVIDER

Clinic *
HL7 UNIT TEST CLINIC

Facility Code
CT9999

Message Type
(ALL)

From Date
06/01/2020

To Date
06/18/2020

Output Type ☒ PDF ☐ EXTRACT - Delimiter: |

Run Report **Cancel**

Step 1: Select the Provider/clinic

Step 2: Select the Date Range

Step 3: Run Report

HL7 Message Count (Output)



CT WiZ HL7 Message Count

June 18, 2020

Provider = HL7 UNIT TEST PROVIDER, Clinic = HL7 UNIT TEST CLINIC, HL7 Facility = CT9999, Message Type = (ALL), From Date = 06/01/2020, To Date = 06/18/2020

<u>Provider</u>	<u>Facility Code</u>	<u>Facility Description</u>	<u>Message Count</u>	<u>VXQ</u>	<u>Connection Type</u>
EHR Vendor:					
HL7 UNIT TEST PROVIDER	CT9999	CONNECTICUT TEST FACILITY	12	0	
EHR Vendor Total			12	0	
Report Total			12	0	

DQA Patient Vaccination Report

- The purpose of the DQA Report is to generate a list of any patient vaccination information that meets the criteria.
- Input criteria:** vaccine, provider, clinic, include all global users, date range filters, vaccinations, created by, updated by and output type.
- Opted-out patients are not included.*

Report Selection Criteria

Step 1: Select the Vaccine

Vaccine
(ALL VACCINES)

Provider *
HL7 UNIT TEST PROVIDER

Clinic *
HL7 UNIT TEST CLINIC

Include All Global Users (WebIZ and School Module) NO

Date Range Filters

Vaccination Date Range
From: 06/02/2020 Through: 06/23/2020

Vaccination Audit Create Date Range
From: MM/DD/YYYY Through: MM/DD/YYYY

Vaccination Audit Update Date Range
From: MM/DD/YYYY Through: MM/DD/YYYY

Date of Birth Date Range
From: MM/DD/YYYY Through: MM/DD/YYYY

Vaccinations
☒ All ☐ Historical ☐ Invalid

Vaccinations Created and Updated By

Created By *
(ANY USER)
KOPYLEC, ANGELA (--)
MEHTA, SHRADDHA (--)
SHAIK, SHABEENA (--)
USER, HL7 UNIT TEST (--)

Updated By *
(ANY USER)
KOPYLEC, ANGELA (--)
MEHTA, SHRADDHA (--)
SHAIK, SHABEENA (--)
USER, HL7 UNIT TEST (--)

Step 2: Select the Provider/Clinic

Step 3: Select any one Date Range

Step 4: Select the created by-

DQA Patient Vaccination Report (Output)

- DQA Report is generated in Excel. It includes the following information:
- **Patient Information:** Patient Default Clinic Code, Patient Default Clinic Name, Creation date of patient record, Last update date of patient record, Type of Patient, Patient ID, MRN, Name, DOB, Gender, Clinic Patient Status, Ethnicity, Language, Race(s), Patient Eligibility, Mother Name, Address, Primary Contact Information, Phone, Email.
- **Vaccination Information:** Creation date of the vaccination, Update date of the vaccination, HL7 Facility Code, Vaccination Clinic Code, Vaccination Clinic Name, Vaccination Code ID, NDC, Vaccination Description, Vaccination Date, Manufacturer, Lot number, Expiration date, Dosage, Historical (Y/N), Body Site, Body Route, Vaccine Funding source, Vaccination Eligibility, Administered (Y/N), Administered by, Prescribed by, VIS Given Date, VIS Name, Vaccination Created by User, Vaccination Updated by User.

HL7 Messages by ACK Message

- Generates a list of multiple Acknowledgement (ACK) messages based on the selection criteria and grouped by ACK message.
- This report searches the HL7 Message Log for any ACK messages that match the search criteria.

HL7 Messages By ACK Message ⓘ

Step 1: Select the Date Range

Cancel Run Report ▾

Report Criteria

Date of Message

From Date * 05/01/2020 📅

Through Date * 06/18/2020 📅

Provider HL7 UNIT TEST PROVIDER ▾

Clinic HL7 UNIT TEST CLINIC ▾

Vendor Name ALL ▾

Step 2: Select the Provider/Clinic/Vendor

**Step 3:
Run
the
Report**

HL7 Messages by ACK Message (Output)

Vendor Name	Software Name	HL7 Facility Code	Clinic Code	Clinic Name	HL7 ACK Code	Severity Of Error	Segment	HL7 Field Position	HL7 Field Name	Error Code	User Message	Total Errors	Action	Start Period	End Period
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	E				Invalid value	valued "00" then the message SHALL include an OBX segment associated with the RXA with OBX-3.1 shall equal "64994-7" indicating Funding Eligibility.	5		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W				Required observation missing	valued "00" then the message SHALL include an OBX segment associated with the RXA where OBX-3.1 shall equal "30963-3" indicating the Funding Source.	5		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	ORC	ORC.17.1	EnteringOrganization	Required observation missing	ORC-17 (EnteringOrganization): Has a conditionally required element [Identifier]. Expectation: value is populated with a valid facility code when the first occurrence of RXA-9.1 is valued "00" and RXA-20 (CompletionStatus) is valued "CP" or "PA".	5	Leave this field in bl	05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	RXA	RXA.11.4	AdministeredAtLocation	Required observation missing		5		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC								4		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	PID	PID.13.4	HomePhoneNumber	Invalid value	Expectation: value must be one of the following: (is null or empty or needs to be a valid email address).	2		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	E	PID	PID		Required observation missing	The message will not load due to the PID segment missing required data. Expectation: value PID-	2		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	I	PID	PID.3.5	PatientIdentifierList	Table value not found	PID-3 (PatientIdentifierList[1]): Unsupported value [P]. Expectation: value must be in the list of	2		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	PID	PID.11.	PatientAddress	Required observation missing	Expectation: value is an incomplete address. Address will not load unless Street Address, City, State and a valid Zip are all entered for this address type.	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC		I	PD1	PD1.12.	ProtectionIndicator	Invalid value	The PD1-12 (ProtectionIndicator) has been set, the contents of this message will not be loaded.	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	E				Invalid value	Authorization Error: User does not have permission to send for this facility	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	E	MSH	MSH.6.1	ReceivingFacility	Invalid value	MSH-6 (ReceivingFacility): Unable to process this message: Expected value [CT0000] but found	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	E	MSH	MSH.6.1	ReceivingFacility	Table value not found	MSH-6 (ReceivingFacility): No matching facility found for [CT].	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX		Table value not found	: Unrecognized/unsupported value []. Expectation: value element /3/1 exists in table NP003.	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX.10.	NatureOfAbnormalTest	Table value not found	OBX-10 (NatureOfAbnormalTest[1]): Unrecognized/unsupported value [F]. Expectation: value	1	Leave this field in bl	05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX.11.	ObservationResultStatus	Invalid value	OBX-11 (ObservationResultStatus): Unrecognized/unsupported value: []. Expectation: value is	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX.16.3	ResponsibleObserver	Illogical Value error	Internal Parser Error: Field too long: 96 > 30	1	Leave this field in bl	05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX.3.1	ObservationIdentifier	Table value not found	OBX-3 (ObservationIdentifier): Unrecognized/unsupported value [find a LOINC Code[]].	1		05/01/2020	06/18/2020
		CT9999	HL7_UNIT_TST	HL7 UNIT TEST CLINIC	AE	W	OBX	OBX.5.	ObservationValue	Illogical Value error	[253088698300029511191030*HPV Vaccine VIS*cdogs1vis]. Expectation: value in OBX-5.1 (ObservationValue) must have a value in CDCGSVIS when OBX-3.1 (ObservationIdentifier) is	1		05/01/2020	06/18/2020

Important Notes

- All errors should be addressed. Use the Quick Reference to fix VXU Errors [https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CT WiZ HL7 Quick Reference to Fix VXU Errors.pdf](https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CT_WiZ_HL7_Quick_Reference_to_Fix_VXU_Errors.pdf) for assistance with error correction.
- Some warnings can be ignored but not all. Refer to ACK Message Guidance for [Common Errors in CT WiZ https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CT_ACK_Guidance_042020.pdf](https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CT_ACK_Guidance_042020.pdf)
- Please refer to the Delta Guide which provides guidance on HL7 message structure [and requirements specific to CT WiZ. https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CTWIZ_DELTA_GUIDE-4_20.pdf](https://portal.ct.gov/-/media/Departments-and-Agencies/DPH/dph/infectious_diseases/immunization/EHR-HL7/CTWIZ_DELTA_GUIDE-4_20.pdf)

How To Get Help

- Visit the [CT WiZ Training](#) and [CT WiZ Onboarding](#) webpages for numerous trainings and videos.
- Click on the icon ⓘ located at the top of the CT WiZ pages to get a description of the screens.
- Click on the [Learn More](#) on top of some pages in CT WiZ to open up a short "How To" videos.
- Submit a help desk ticket at: <https://dph-cthelpdesk.ct.gov/> select Immunizations (CT WiZ) and the applicable category, topic, and sub-topic.