



FEI Systems

Connecting Every Dimension of
Health and Human Services

WITS Requirements Document

2022 Real World Test Results

Created by: Kevin Sutter

Dated: 1/28/2023

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Real World Test Results

For Criteria

§170.315 (b)(1), §170.315 (b)(6), §170.315 (c)(1),
 §170.315 (g)(7), §170.315 (g)(8), and §170.315 (g)(9)

General Information

Plan Report ID Number: 2022RWTRResults_Ver1.0

Developer Name: FEI Systems

Product Name(s): Web Infrastructure for Treatment Services (WITS)

Version Number(s): 22

Certified Health IT: 15.04.04.1479.WITS.22.02.1.220628

Product List (CHPL) ID(s): 15.04.04.1479.WITS.22.02.1.220628

Developer Real World Testing Page URL: <https://www.feisystems.com/certifications/>

Real World Testing Approach

The Certified Health IT product, WITS, is sold by FEI Systems as an ambulatory care Electronic Health Record (EHR) software application. WITS customers specialize in providing substance abuse and mental health services to the Medicaid population. The applicable 2015 Edition criteria that we included in our 2022 Real World Testing are:

TABLE 1

§170.315 (b)(1)	§170.315 (b)(6)
§170.315 (c)(1)	§170.315 (g)(7)
§170.315 (g)(8)	§170.315 (g)(9)

In the real world, the modules tested provide one seamless approach to fulfil clinical and administrative documentation

requirements and incorporate the features and functions of all of the criteria mentioned in Table 1. The results in this document demonstrate how these combined certified criteria perform in the production environment.

METHODOLOGY

Testing environments:

- Public-facing production-like instance of ONC certified WITS version 22.10. Clients in this environment have realistic client data based on elements of current clients.
- Public API testing tool Postman.com.

Testers:

- La'Tray Jeffers, Tennessee Department of Mental Health and Substance Abuse Services
- Ken Horvath, Tennessee Department of Mental Health and Substance Abuse Services
- Kevin Sutter, FEI Systems (External API testing for (g)(7,8,9))

Testing Dates: 1/26 – 1/27, 2023

Proctoring:

- Teams meeting to observe provider testing activities of certified criteria through WITS unassisted.

JUSTIFICATION FOR METHODOLOGY

WITS became 2015 Edition ONC certified in 2019 at the request of one of our WITS customers, the Tennessee Department of Mental Health and Substance Abuse Services (TN). Since deploying it in that year to our customer, TN confirmed that they have not used the ONC data collection screens and interoperability capabilities (CCDA-related) to conduct business. Therefore, there is no production data that can be used as a representation of ONC client data collection or interoperability for Real World Testing. For this reason, we have simulated near-production client data in our public-facing Real World Testing environment. This means that we have created client records for Real World Testing that have elements of real client data. They cannot be tied back to any existing private health information (PHI) or personally identifiable information (PII).

Because of staff turnover on the WITS team, we implemented our 2022 Real World Testing program late in Q4. The limited resources of the WITS team and our customers meant we could only test for two days.

To test the publicly available APIs that satisfy the (g)(7, 8, 9) criteria, a WITS team member used a 3rd party API tool called Postman.com, which a client can run on their home computer or other internet-enabled device. After some discussion, it was agreed that there was no good candidate external to FEI with the necessary technical skills that was available at no cost to test the criteria using the tool. Therefore, one of our staff tested the APIs to satisfy the testing criteria. The testing process is described in the section for Measure 4.

None of our customers, including TN, have a MIPS reporting requirement. Because of this, we have not updated the Documentation of Current Medications in the Medical Record QRDA report (CMS68) XML from version 8 to the current version because our customers have no need for it.

Version 22 of WITS continued to support the 2015 Edition criteria on the WITS CHPL listing for the 2022 calendar year as this document will show even though TN was not using it. The ONC modules in WITS are currently not enabled for our other customers. We anticipate that more of them will want to use the ONC functions because of the 2015 Cures Act updates to our product.

Measures Used In Testing

DESCRIPTION OF MEASUREMENT/METRIC

The Measure/Metrics and the Descriptions listed below apply to the simultaneous and seamless use of the functionality of the applicable certified measures mentioned in Table 1. FEI identified the following metrics and descriptions in the 2022 Real World Test plan.

Measurement/Metric	Description
<p>Measure 1: Clinician logs into WITS and receives a C-CDA from a referring provider via Direct Protocol with no Tech Support and no errors. C-CDA has demographic information adjusted so PHI is not visible. Successful receipt of C-CDA is achieved and observed.</p>	<p>Clinician begins a new patient encounter in the WITS certified software with a patient referred by another clinician. With a Direct Address and unique Updcox credentials the clinician is able to have a seamless login and secure receipt of C-CDA from the referring clinician using the Direct Protocol. The Common Clinical Data Set standard will be demonstrated in these transactions through screenshots collected. Log files are also captured. These will all show the successful receipt of the C-CDA with all fields completed and arranged per provider preference. This will meet § 170.315(b)(1) (Receive).</p>
<p>Measure 2: Documentation of Medications (CQM68) is done without assistance. No errors are expected.</p>	<p>The clinician easily completes Documentation of Medications (CQM68) within appropriate location in the WITS software to meet 170.315(c)(1) by completing the appropriate fields as they document the patient's medications on the date of the encounter in WITS software. It will be later reflected in the numerator and denominator of this MIPS CQM measure and the generation of a QRDA file format.</p>
<p>Measure 3: Updated C-CDA is sent back to referring partner. Successful sending of CCDA is achieved and observed.</p>	<p>Clinician sends updated C-CDA with minimal delay back to referring clinician via Direct Protocol. Updated C-CDA is also sent to the patient portal. Confirmation of sent C-CDA is captured along with log files. This will meet § 170.315(b)(1) (Send).</p>
<p>Measure 4: The patient will have the ability to access (by authentication) either partial or full encounter summaries by way of an API call from a 3rd-party application running on a patient-owned device to the API of the EHR.</p>	<p>This same patient will be enabled to present their authenticated credentials to use a 3rd-party application running on a patient-owned device to access either partial encounter summary data or a full encounter summary. They will have the ability to view and or transmit their information as they see fit. This will meet § 170.315 (g)(7,8,9).</p>
<p>Measure 5: A selected practice staff member is observed successfully exporting bulk patient data files on demand.</p>	<p>Authorized office practice staff member will perform an export of data from the production server in real-time (on demand) with a specific start & end date immediately. This will be done without delay and sent to a specific file location decided by the staff member. This will be accomplished efficiently and with no error and the file will be inspected when received to ensure it is the file requested. Real world data will be used but demographic information will be changed to protect patient health information. This measure allows the capture of report data selected by and on demand without assistance from development staff. The ability to independently create reports is vital to office practices and integral to a certified EHR. FEI Systems staff will verify the reports have been created successfully with requested data and sent to a specific file location through screenshots.</p>
<p>Measure 6: a selected practice staff member is successfully exporting a file at a single delayed time - with a specific start and end date in the future.</p>	<p>An authorized office staff member will perform a data export data in the future - 5 minutes from current time - from the production server with a scheduled specific start & end date -such as November 1 - November 2, 2021. This will be accomplished efficiently and with no error and the file will be inspected when received to ensure it is the file requested. This measure allows the staff member to select a time in the future without</p>

	assistance from development staff. The ability to independently create reports is vital to office practices and integral to a certified EHR. FEI Systems staff will verify the reports have been created successfully and sent to a specific file location with requested data through screenshots.
Measure 7: A selected practice staff member sets an export for a delayed future time during hours after the practice is closed and is able to run successfully. This scheduled event will repeat as scheduled.	An authorized staff member sets up a specific data export to run after the practice is closed. This measure allows the capture of report data selected by and on demand without assistance from development staff. The ability to independently create reports is vital to office practices and integral to a certified EHR. FEI Systems staff will verify the reports have been created successfully with requested data and sent to a specific file location with screenshots that capture the activity. At the finish of Measure 7 § 170.315(b)(6) Data export will be satisfied.

ASSOCIATED CERTIFICATION CRITERIA

Measurement/Metric	Associated Certification Criteria
Measure 1	§ 170.315(b)(1) Transitions of care - Receive
Measure 2	§ 170.315(c)(1) CQM – Record and Export
Measure 3	§ 170.315(b)(1) Transitions of care - Send
Measure 4	§ 170.315 (g)(7, 8, 9) API
Measures 5 - 7	§ 170.315(b)(6) Data export

Test Results

SUMMARY OF FINDINGS

The below summary of findings is supported by the detailed screenshots of tasks as shown in the sections on measures.

Measure 1: § 170.315(b)(1) (Receive)	<p>External testers successfully:</p> <ul style="list-style-type: none"> Opened a secure DIRECT message from a provider in another WITS agency that included a copy of the referral and CCDA of a client. <p>External users unsuccessfully:</p> <ul style="list-style-type: none"> Processed the CCDA received in the DIRECT message and linked it to the client record to view the CCDA in human readable format. <p>Resolution:</p> <ul style="list-style-type: none"> We corrected a software conflict that prevented the user processing the CCDA in WITS internally for the provider agency the users tested in.
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	<p>However, testing in the home agency allowed the user to process a client CCDA file from the DIRECT message as intended.</p> <ul style="list-style-type: none"> The WITS team was able to fix the issue. It did not impact users in the production environment as TN is not using the functionality or receiving CCDA files. <p>Post-resolution, a test user successfully processed the CCDA received in the DIRECT message and linked it to the client record to view the CCDA in human readable format.</p>
<p>Measure 2: 170.315(c)(1)</p>	<p>The testers successfully:</p> <ul style="list-style-type: none"> Opened client records and reviewed client’s medications history of Client Profile\Medication History. Navigated to Activity List\Encounters screen. Opened client encounter for Individual Counseling and checked the indicator for Medication(s) Documented. Navigated to menu Agency\CQM Reporting in the main WITS menu. Entered parameters and generated the XML QRDA Report. Saved XML report to another directory on their computers.
<p>Measure 3: § 170.315(b)(1) (Send)</p>	<p>The testers successfully:</p> <ul style="list-style-type: none"> Navigated to Activity List\Encounters screen. Opened client encounter for Individual Counseling Entered a signed note. Created a DIRECT message from the encounter to send the Encounter Summary CCDA and consent form to a provider in another agency. Navigated to DIRECT Message inbox on the WITS main menu and verified in the Sent box that the message was sent to the provider in another agency.
<p>Measure 4: § 170.315 (g)(7), (g)(8), (g)(9)</p>	<p>Using 3rd party software Postman.com and the public API documentation, the tester successfully retrieved:</p> <ul style="list-style-type: none"> A user token to run (g)(7,8,9) APIs. The list of encounters and Unique Client Number for a specified client (g)(7). The list of data elements for a specific category of Common Core Data (g)(8). A full Summarization of Episode Note for the specified client (g)(9).
<p>Measure 5: § 170.315 (b)(6) – Real time export</p>	<p>The testers successfully:</p> <ul style="list-style-type: none"> Navigated to CCDA\Data Exports screen. Created a new data export schedule to generate CCDA files for all patients in the chosen facility as a real-time schedule. Saved the generated zip file of CCDA XML files to another folder on the user computer.
<p>Measure 6: § 170.315 (b)(6) – One-time future-dated export</p>	<p>The testers successfully:</p> <ul style="list-style-type: none"> Navigated to CCDA\Data Exports screen. Created a new data export schedule to generate CCDA files for all patients in the chosen facility for a specific date and time in the future. Saved the generated zip file of CCDA XML files to another folder on the user computer.

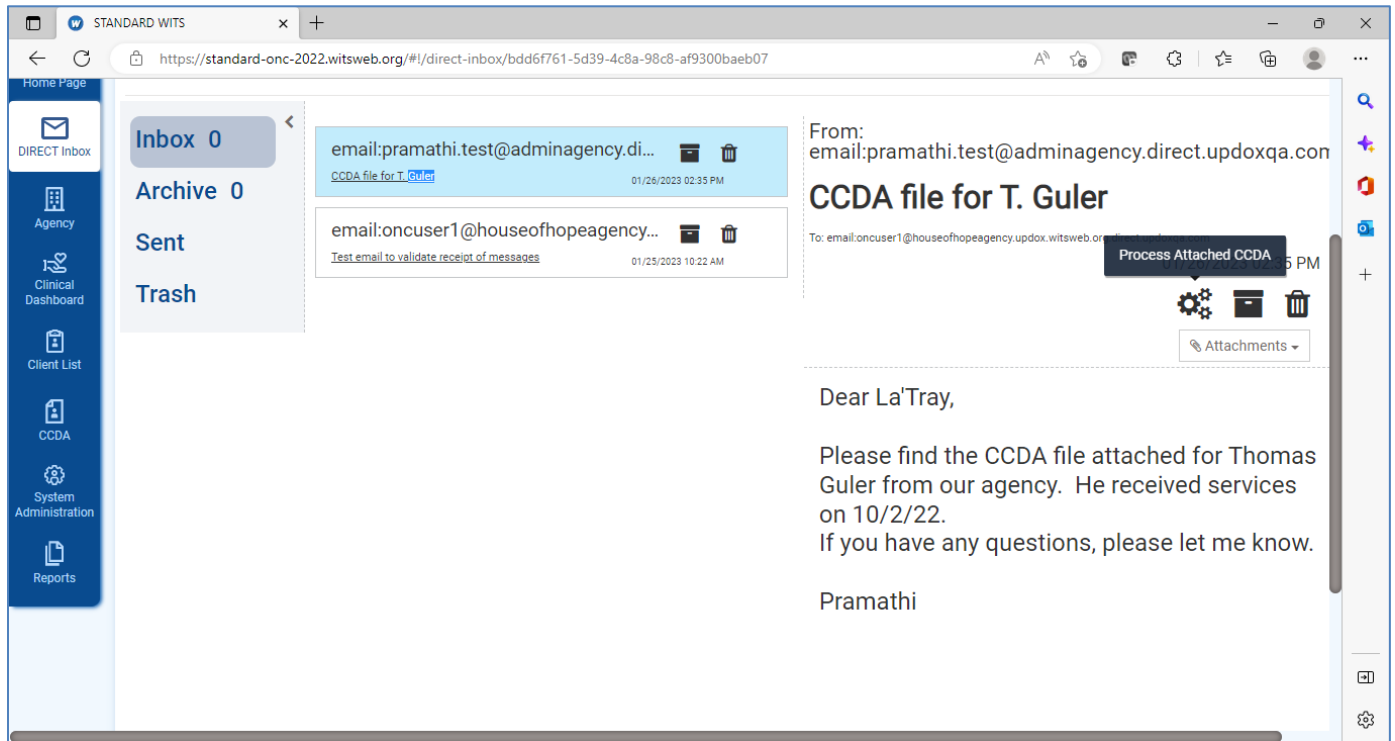
<p>Measure 7: § 170.315 (b)(6) – Recurring export</p>	<p>The testers successfully:</p> <ul style="list-style-type: none"> • Navigated to CCDA\Data Exports screen • Created a new data export schedule to generate CCDA files for all patients in the chosen facility for a recurring export with a specific time in the future. • Saved the generated zip file of CCDA XML files to another folder on the user computer.
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MEASURE 1 (B)(1)

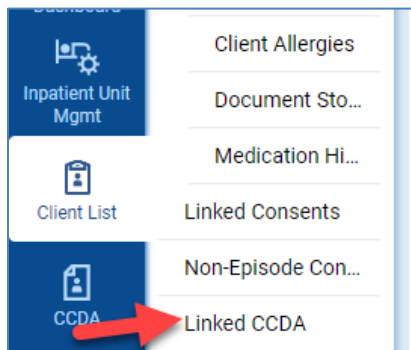
- From the Home page, testers chose menu DIRECT Inbox from the left-hand menu. Each tester had a dedicated DIRECT Message email address and inbox prepared.



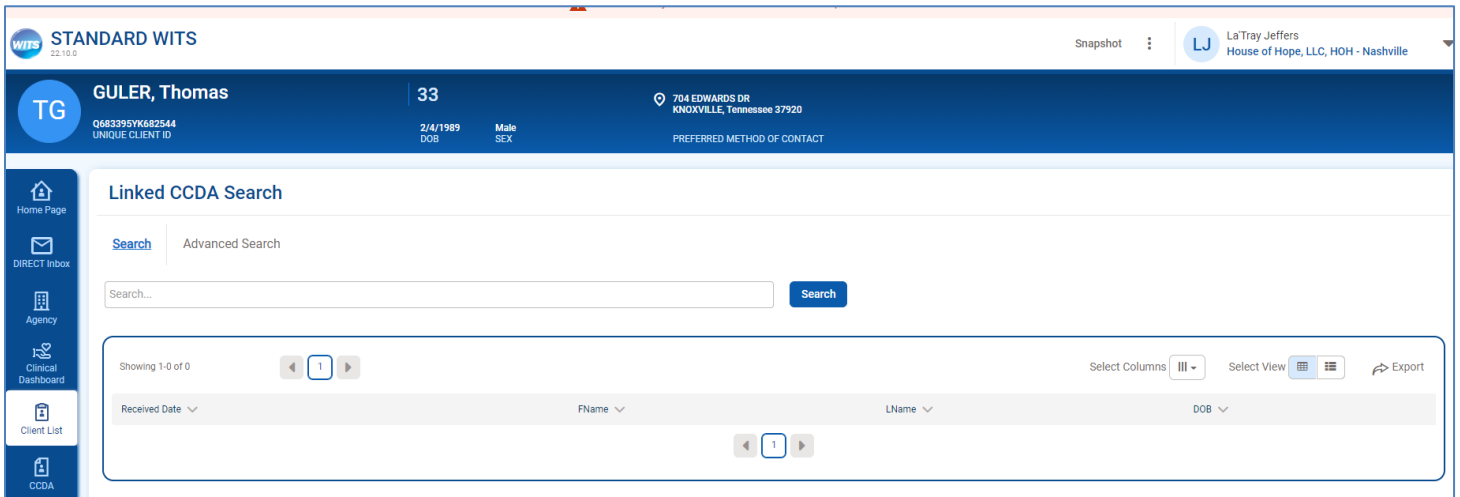
- In the Inbox view, each tester opened the email from provider Pramathi by double-clicking it. The email showed in the right-hand email pane. It contained the CCDA (EHR) file for a client that was referred to House of Hope Agency via a consent document.
 - Tester 1: client Thomas Guler, client ID - Q683395YK682544
 - Tester 2: client Sharon Timmons, client ID - J893492MX031544



- The testers clicked the gears icon to process the CCDA file in WITS and link it to the client’s record.
- The testers navigated back to the client record to view the consumed CCDA file through menu Linked CCDA.



- **Issue. The testers were not able to complete the test to process the Linked CCDA.** WITS did not process the CCDA files received from the DIRECT messages for either tester.



WITS STANDARD WITS 22.10.0

Snapshot : LJ LaTray Jeffers
House of Hope, LLC, HOH - Nashville

TG GULER, Thomas 33
 704 EDWARDS DR
 KNOXVILLE, Tennessee 37920
 0683395YK682544 UNIQUE CLIENT ID
 2/4/1989 DOB Male SEX
 PREFERRED METHOD OF CONTACT

Linked CCDA Search

Search Advanced Search

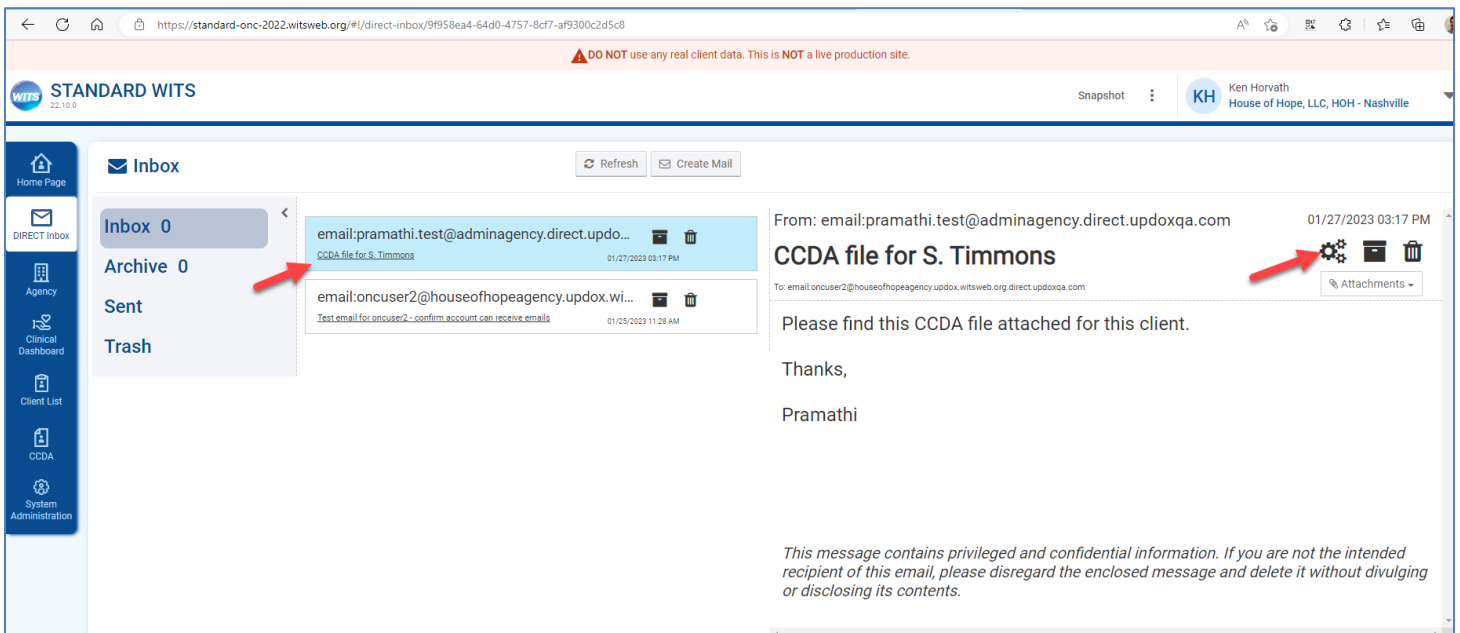
Search...

Showing 1-0 of 0

Select Columns Select View Export

Received Date	FName	LName	DOB
Showing 1-0 of 0			

- **Resolution.** The WITS team found that the system was not matching the client’s CCDA file to the House of Hope agency client record when processed through DIRECT message if the client existed in another WITS agency. After correction, the user was able to process the CCDA and link it to the client’s account as shown in the following bullets and screenshots.
- For client “Sharon Timmons”, the user returned to the DIRECT Message Inbox and opened the message for S. Timmons.



https://standard-nc-2022.witsweb.org/#!/direct-inbox/9f958ea4-64d0-4757-8cf7-af9300c2d5c8

DO NOT use any real client data. This is NOT a live production site.

WITS STANDARD WITS 22.10.0

Snapshot : KH Ken Horvath
House of Hope, LLC, HOH - Nashville

Inbox Refresh Create Mail

Inbox 0
 Archive 0
 Sent
 Trash

email:pramathi.test@adminagency.direct.updoxqa.com
 CCD A file for S. Timmons
 01/27/2023 03:17 PM

From: email:pramathi.test@adminagency.direct.updoxqa.com 01/27/2023 03:17 PM
CCDA file for S. Timmons
 To: email:oncuser2@houseofhopeagency.updox.witsweb.org; email:pramathi.test@adminagency.direct.updoxqa.com

Please find this CCD A file attached for this client.

Thanks,
 Pramathi

This message contains privileged and confidential information. If you are not the intended recipient of this email, please disregard the enclosed message and delete it without divulging or disclosing its contents.

- After clicking the gear icon and processing the CCD A file, the user opened the client’s record in the Linked CCD A Search screen and verified that a linked CCD A record was created.

https://standard-onc-2022.witsweb.org/#/linked-ccda/5309

DO NOT use any real client data. This is **NOT** a live production site.

STANDARD WITS 2.2.10.0

Snapshot: KH Ken Horvath, House of Hope, LLC, HOH - Nashville

ST TIMMONS, Sharon | 52 | APT 104, 3205 RIVER MAPLE WAY, KNOXVILLE, Tennessee 37914 | PREFERRED METHOD OF CONTACT

J893492MX031544 UNIQUE CLIENT ID | 4/5/1970 DOB | Female SEX

Linked CCDA Search

Search | Advanced Search

Search...

Showing 1-1 of 1

Received Date	FName	LName	DOB
01/31/2023	Sharon	Timmons	04/05/1970

Validate CCDA | View

- The user clicked the View button to open the CCDA file in a new tab that was human-readable.

https://standard-onc-2022.witsweb.org/view/MedicalRecordsModule/CCDA/ContentDisplay/45f33e62-1abd-4fdf-9644-af9b00f92bd7/GetCCDAContent?AuthToken=eyJhbGciOiJIUzU1NiIsImtpZCI6ImFEMEYwQTY4RDZMw...

Patient	Sharon Timmons		
Date of birth	April 5, 1970	Sex	Female
Race	Race: White (2106-3)	Ethnicity	Ethnicity: Not Hispanic or Latino (2186-5)
Preferred Language	English (en)		
Contact info	Primary Home: APT 104, 3205 RIVER MAPLE WAY KNOXVILLE, TN 37914, US (Primary Home): tel:(865) 483-5508	Patient IDs	J893492MX031544 7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957
Document Id	7384abed-b997-4d3d-b4d0-43201e386070 7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957		
Document Created:	January 27, 2023, 20:17:14		
Performer	Pramathi Katanguri of Administrative Production Agency		
Contact info	123 test rd test, Maryland 21478, US (Work Place): tel:(202) 456-6655		
Performer	Tim Carroll of Administrative Production Agency		
Contact info	123 test rd test, Maryland 21478, US (Work Place): tel:(202) 456-6655		
Author			
Contact info	:		
Document maintained by	Administrative Production Agency		
Contact info	Work Place: 123 test rd test, Maryland 21478, US (Work Place): tel:(202) 456-6655		
Information recipient:			

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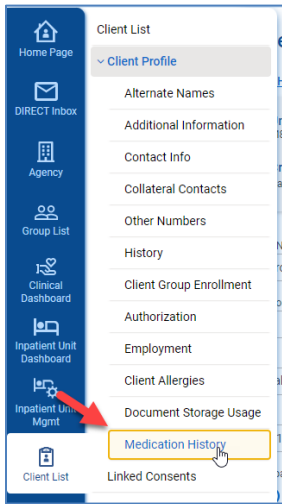
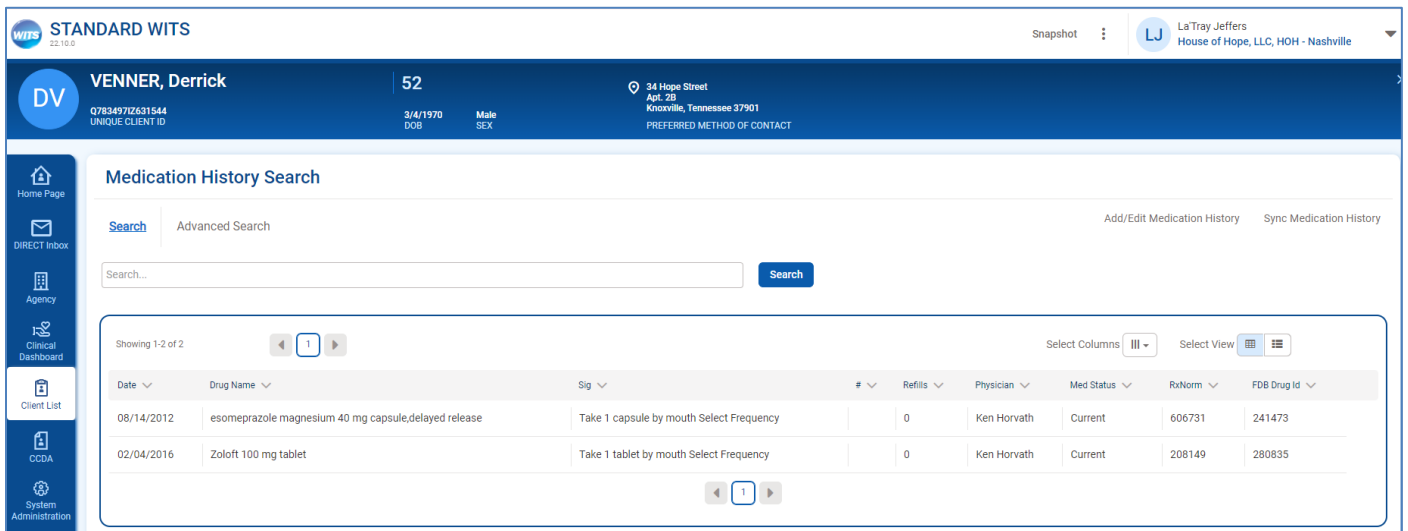
- ALLERGIES, ADVERSE REACTIONS
- VITAL SIGNS
- CHIEF COMPLAINT
- IMMUNIZATIONS
- MEDICATIONS
- MEDICATIONS ADMINISTERED DURING VISIT
- CARE PLAN
- ASSESSMENTS
- HEALTH CONCERNS
- GOALS
- PROCEDURES
- Implants
- SOCIAL HISTORY
- ENCOUNTER DIAGNOSIS
- RESULTS
- PROBLEMS
- FUNCTIONAL STATUS
- COGNITIVE STATUS
- REFERRALS

ALLERGIES, ADVERSE REACTIONS

Substance	Reaction	Severity	Status
Hay Fever, [Code:]	Nasal congestion	Moderate	Active

MEASURE 2 (c)(1)

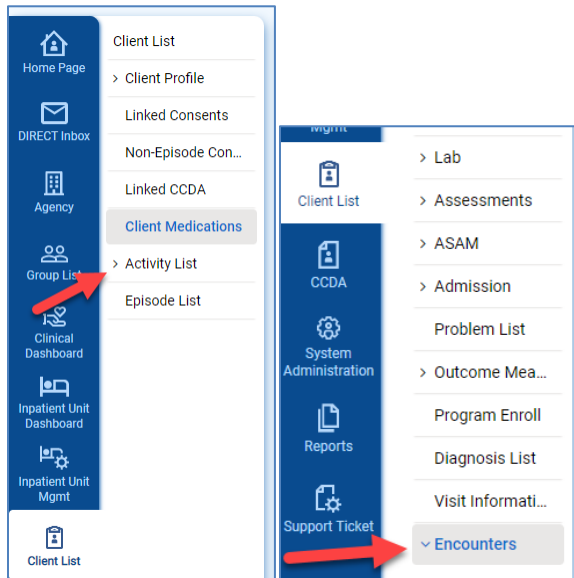
- Testers navigated to the Medication History menu under Client Profile to open the Medication History screen and reviewed the listed medications for each client.

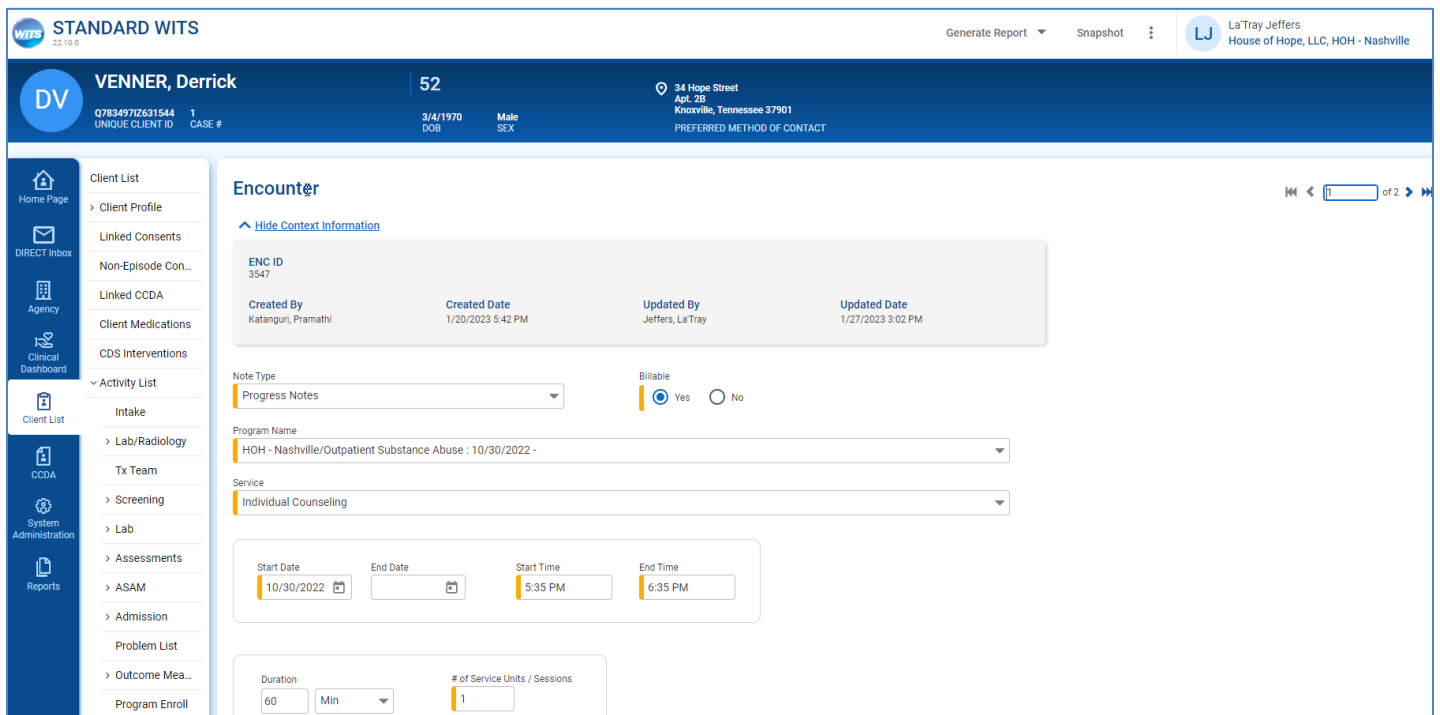
A screenshot of the 'Medication History Search' screen for client Derrick Venner. The client's information is displayed at the top: DV VENNER, Derrick, 52, 34 Hope Street Apt. 2B, Knoxville, Tennessee 37901. The screen features a search bar and a table of medication history entries.

Date	Drug Name	Sig	#	Refills	Physician	Med Status	RxNorm	FDB Drug Id
08/14/2012	esomeprazole magnesium 40 mg capsule, delayed release	Take 1 capsule by mouth Select Frequency		0	Ken Horvath	Current	606731	241473
02/04/2016	Zoloft 100 mg tablet	Take 1 tablet by mouth Select Frequency		0	Ken Horvath	Current	208149	280835

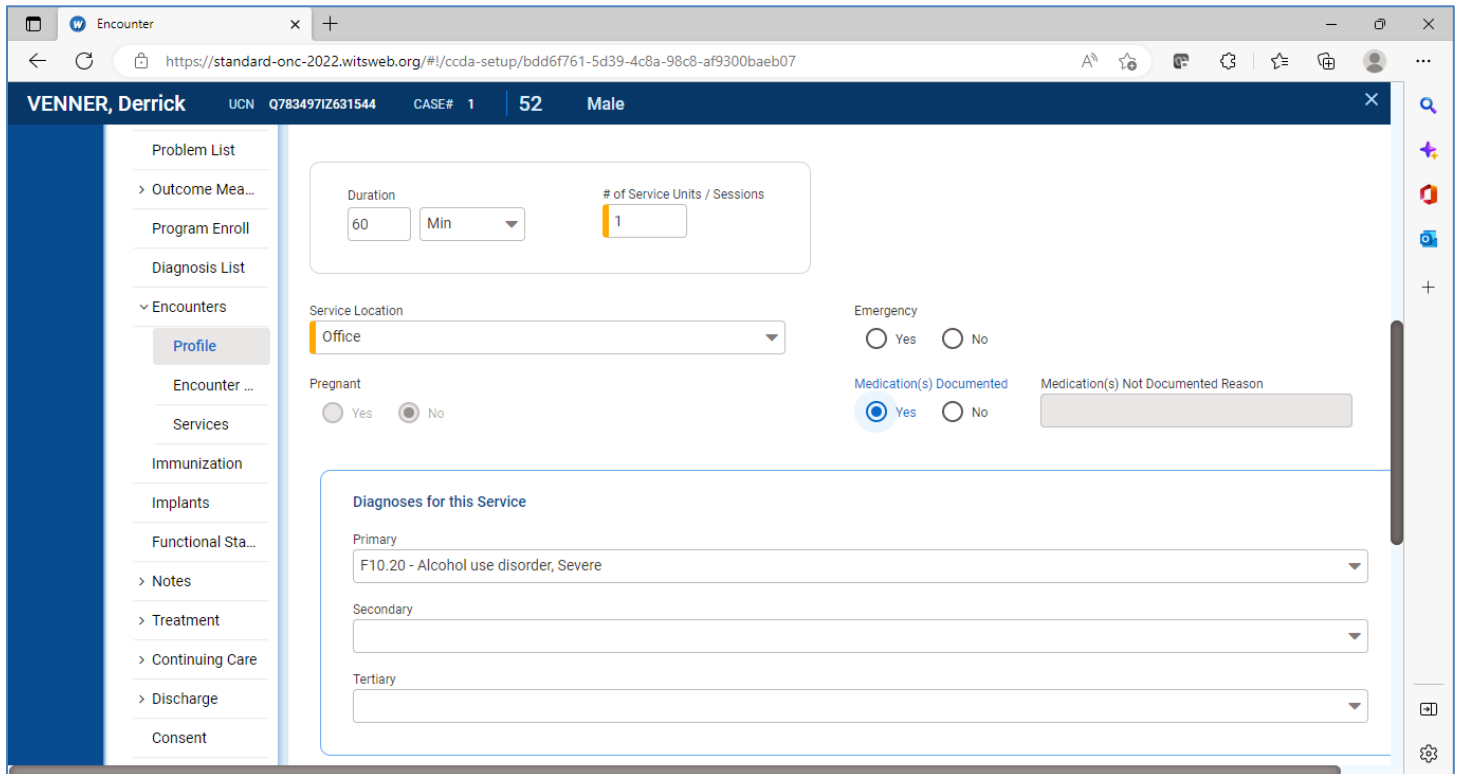
- Testers navigated to the Encounters screen for each client to document that they reviewed medication.



- Testers opened the Encounter for each client with the service “Individual Counseling”.



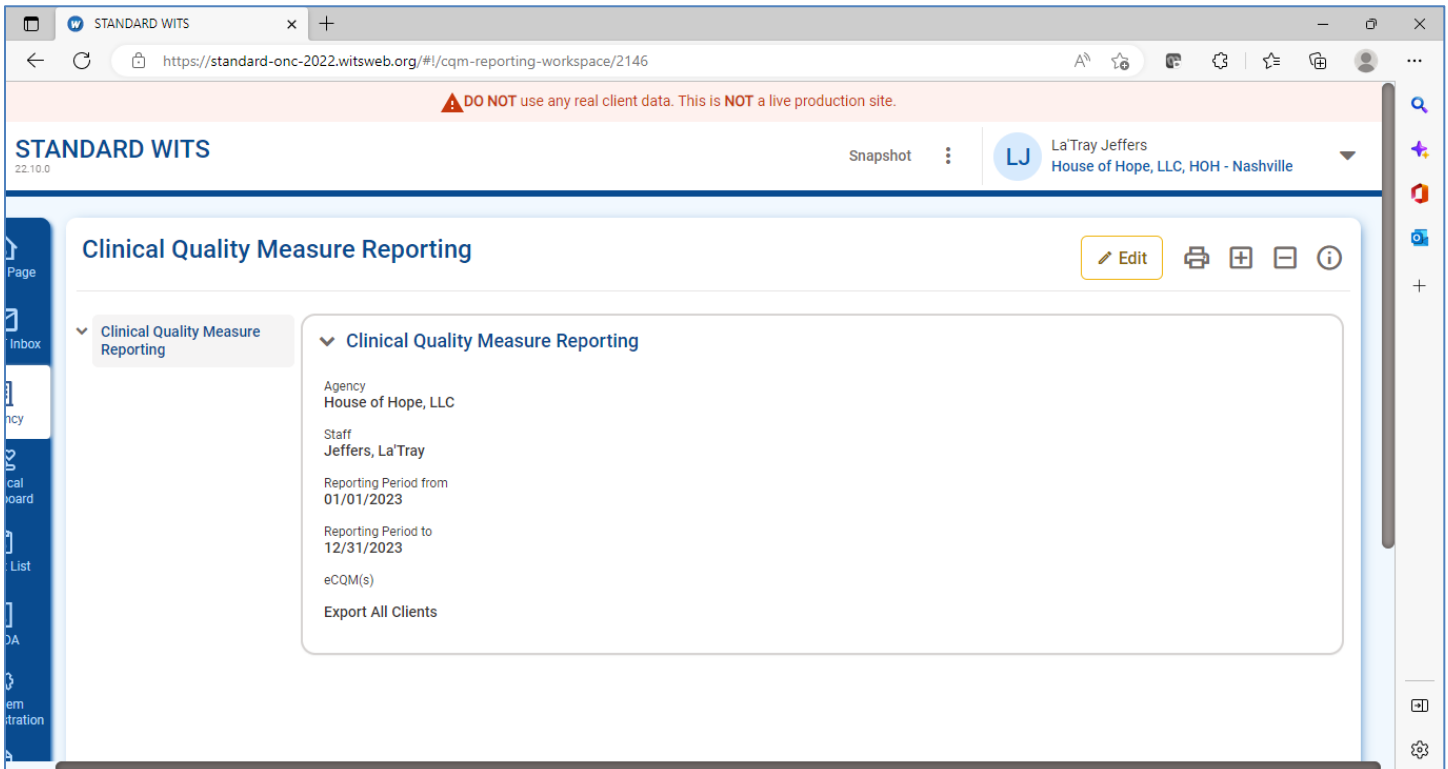
- Testers clicked the Yes indicator for the field Medication(s) Documented. This indicator represents that the provider reviewed the list of current medications for the client.



The screenshot shows a web browser window with the URL <https://standard-enc-2022.witsweb.org/#/ccda-setup/bdd6f761-5d39-4c8a-98c8-af9300baeb07>. The patient information at the top is: **VENNER, Derrick**, UCN **Q7834971Z631544**, CASE# **1**, **52** Male. The left sidebar contains a menu with options: Problem List, Outcome Mea..., Program Enroll, Diagnosis List, Encounters (with sub-options Profile, Encounter ..., Services), Immunization, Implants, Functional Sta..., Notes, Treatment, Continuing Care, Discharge, and Consent. The main content area includes:

- Duration: 60 Min, # of Service Units / Sessions: 1
- Service Location: Office
- Emergency: Yes No
- Pregnant: Yes No
- Medication(s) Documented: Yes No
- Medication(s) Not Documented Reason: [Empty text box]
- Diagnoses for this Service:
 - Primary: F10.20 - Alcohol use disorder, Severe
 - Secondary: [Empty dropdown]
 - Tertiary: [Empty dropdown]

- The testers navigated to the Agency\CQM Reporting menu in WITS
- The testers entered parameters to run the eCQM report “Documentation of Current Medications in the Medical Record CMS68v8”



STANDARD WITS 22.10.0

Snapshot | La'Tray Jeffers | House of Hope, LLC, HOH - Nashville

Clinical Quality Measure Reporting

[Edit](#) [Print](#) [Add](#) [Close](#) [Info](#)

▼ Clinical Quality Measure Reporting

▼ Clinical Quality Measure Reporting

Agency
House of Hope, LLC

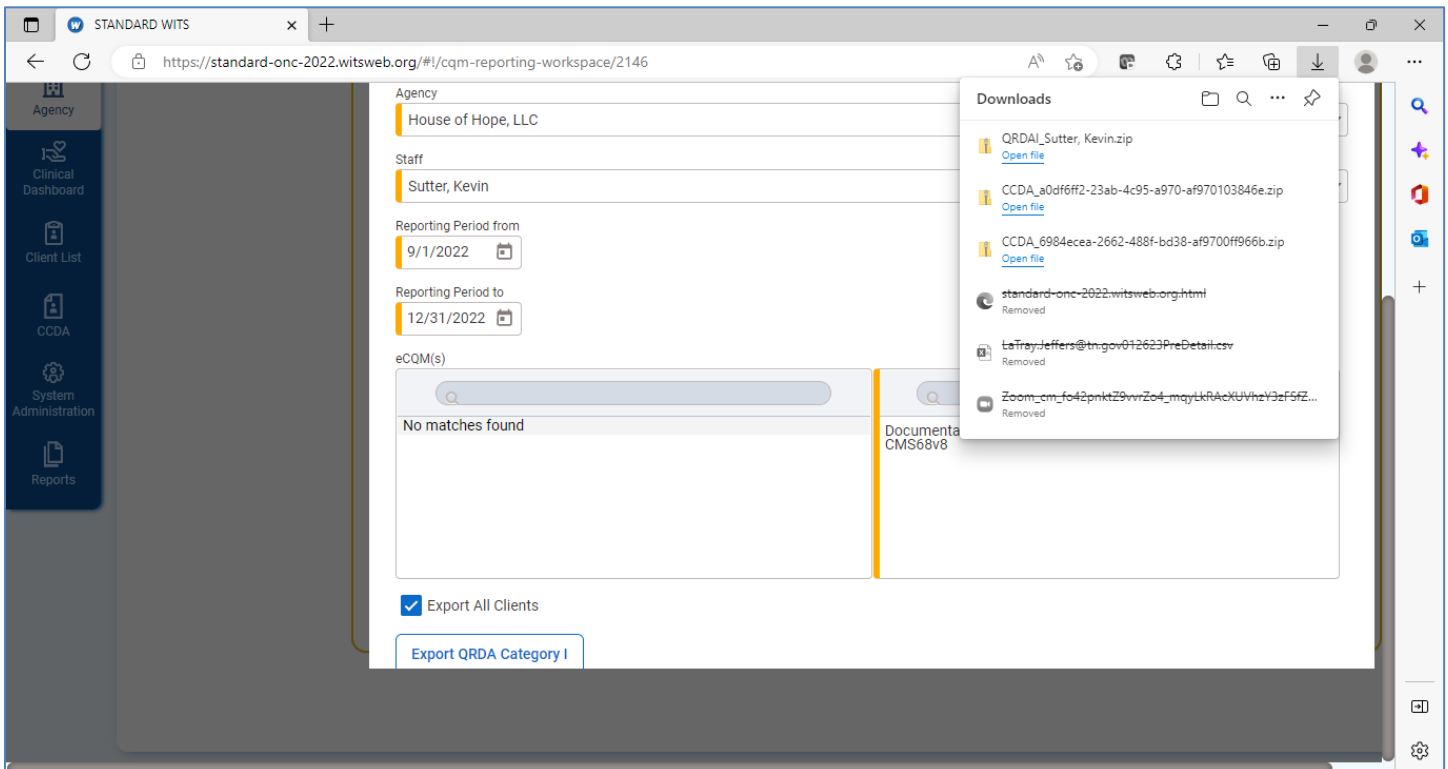
Staff
Jeffers, La'Tray

Reporting Period from
01/01/2023

Reporting Period to
12/31/2023

eCQM(s)

Export All Clients



STANDARD WITS

Agency: House of Hope, LLC

Staff: Sutter, Kevin

Reporting Period from: 9/1/2022

Reporting Period to: 12/31/2022

eCQM(s)

No matches found

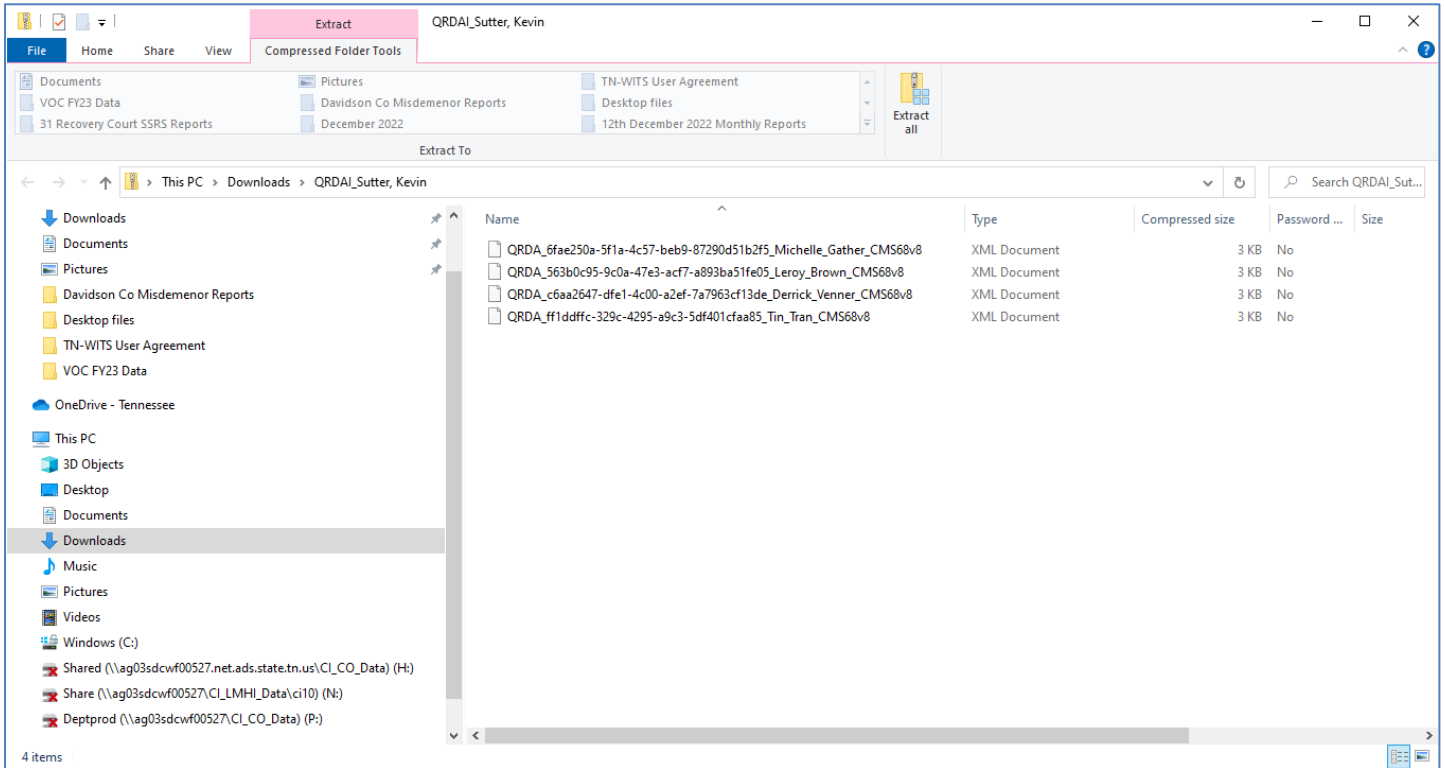
Export All Clients

[Export QRDA Category I](#)

Downloads

- QRDA_Sutter, Kevin.zip [Open file](#)
- CCDA_a0df6f2-23ab-4c95-a970-af970103846e.zip [Open file](#)
- CCDA_6984ecea-2662-488f-bd38-af9700ff966b.zip [Open file](#)
- standard-onc-2022.witsweb.org.html Removed
- La'Tray.Jeffers@tn.gov012623PreDetail.csv Removed
- Zoom_cm_fc42pntZ9vvrZo4_mayLkRkXUVhzY3zF5Z... Removed

- The testers ran the report and saved it to file in their own directory.

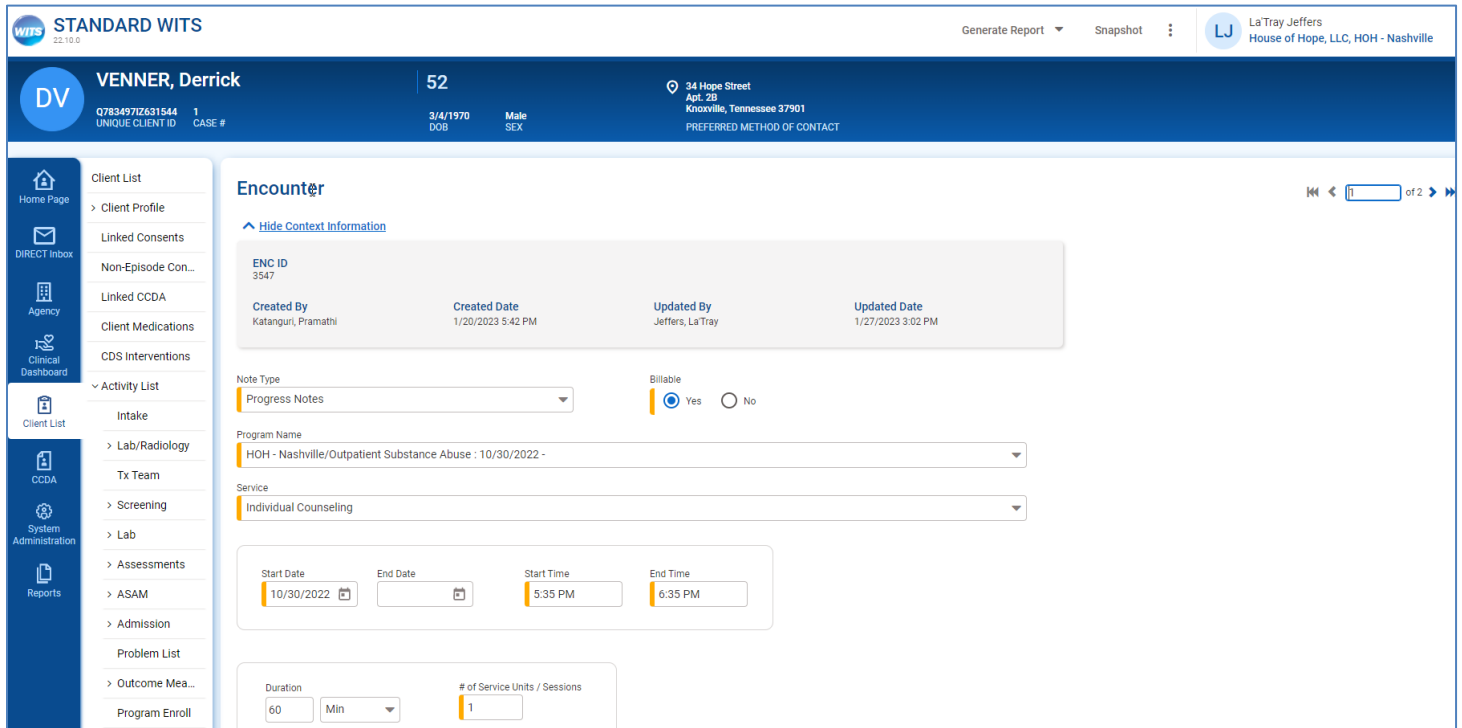


- They also opened the report to view the QRDA XML.



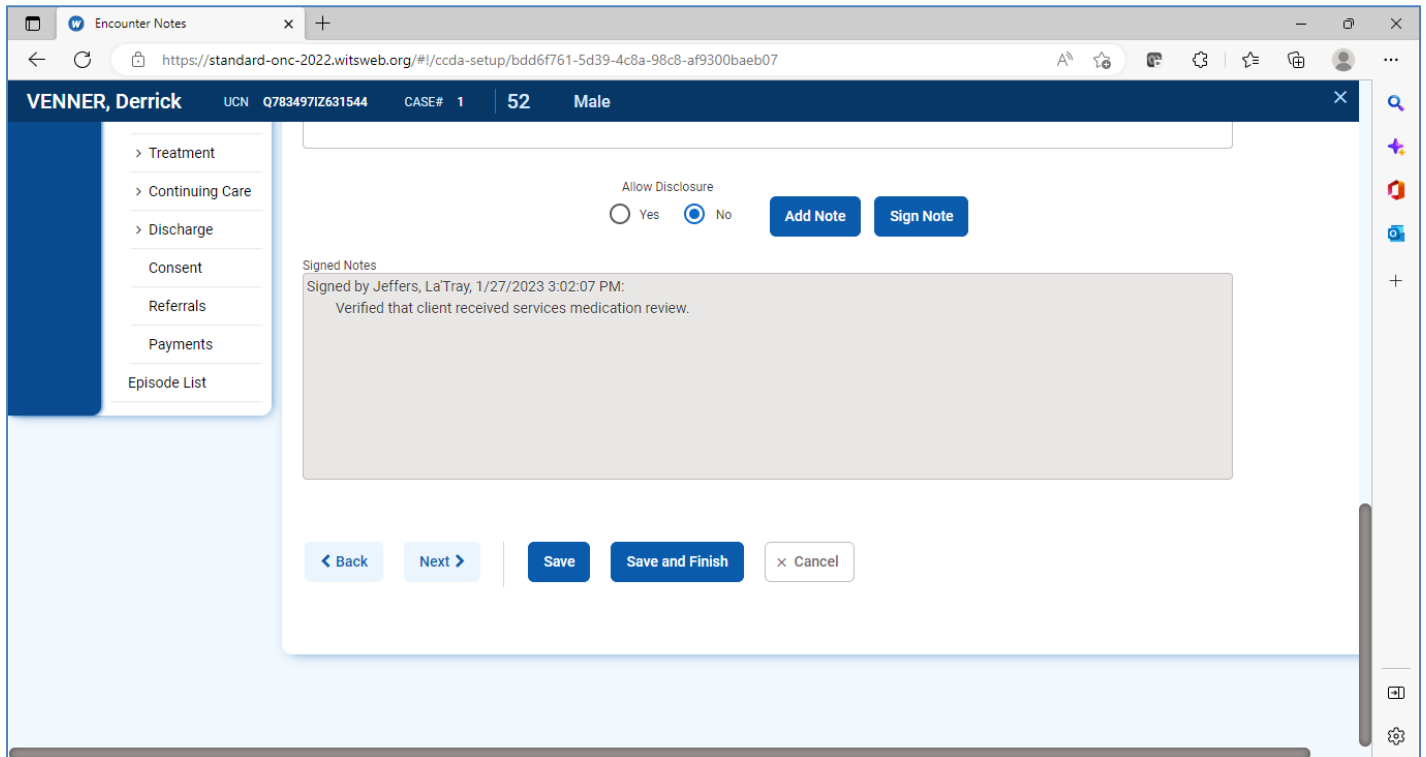
MEASURE 3 (B)(1)

- Testers navigated back to the Encounter screen for each client and chose the encounter that represented Individual Counseling.

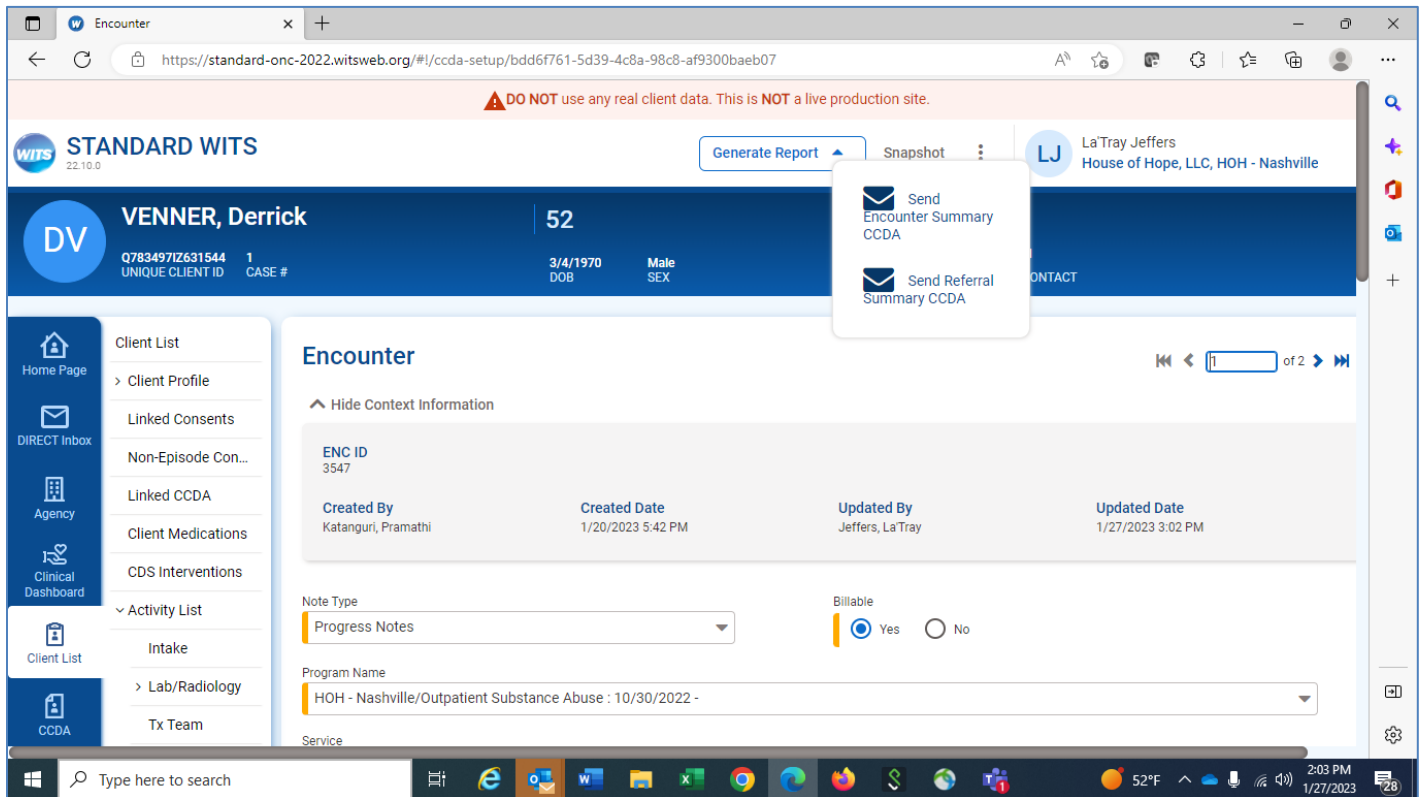


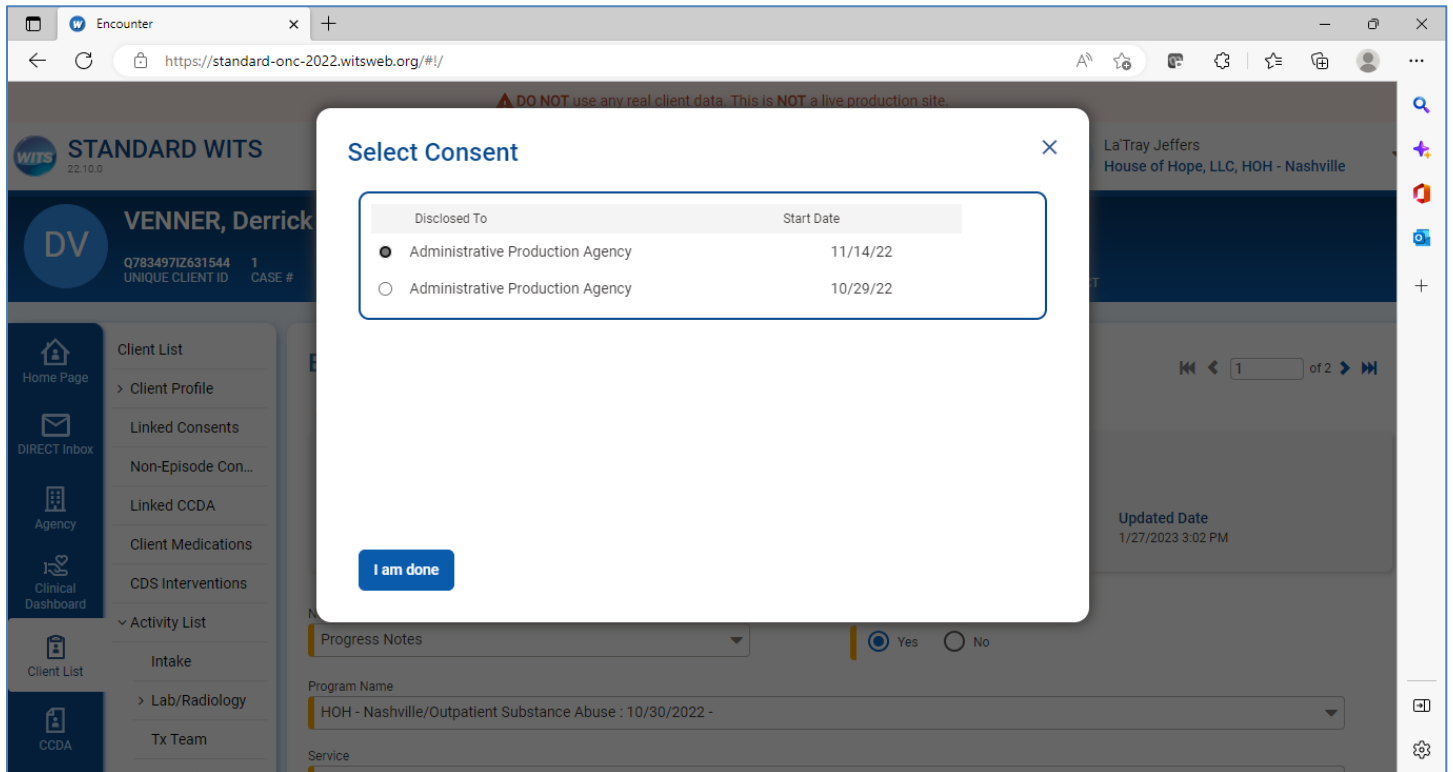
The screenshot displays the STANDARD WITS software interface. At the top, the header includes the WITS logo, the text 'STANDARD WITS 22.10.0', and user information for 'LaTray Jeffers, House of Hope, LLC, HOH - Nashville'. The main header area shows client details for 'VENNERR, Derrick' (ID: 52, DOB: 3/4/1970, Male), address '34 Hope Street Apt. 2B, Knoxville, Tennessee 37901', and unique client ID '07834971Z631544'. A sidebar on the left contains navigation options like 'Home Page', 'DIRECT Inbox', 'Agency', 'Clinical Dashboard', 'Client List', 'CCDA', 'System Administration', and 'Reports'. The main content area is titled 'Encounter' and shows details for ENC ID 3547, including creation and update dates, and a table for 'Note Type' with 'Progress Notes' selected. Below this, there are dropdown menus for 'Program Name' (HOH - Nashville/Outpatient Substance Abuse) and 'Service' (Individual Counseling). At the bottom, there are input fields for 'Start Date' (10/30/2022), 'End Date', 'Start Time' (5:35 PM), 'End Time' (6:35 PM), 'Duration' (60 Min), and '# of Service Units / Sessions' (1).

- On the second screen of the Encounter, the tester entered a note for the encounter in the Unsigned Notes field then transferred it to the Signed Notes field. This allows the user to send a DIRECT Message to another provider for either a CCDS Summary file or CCDA Referral Notes file.

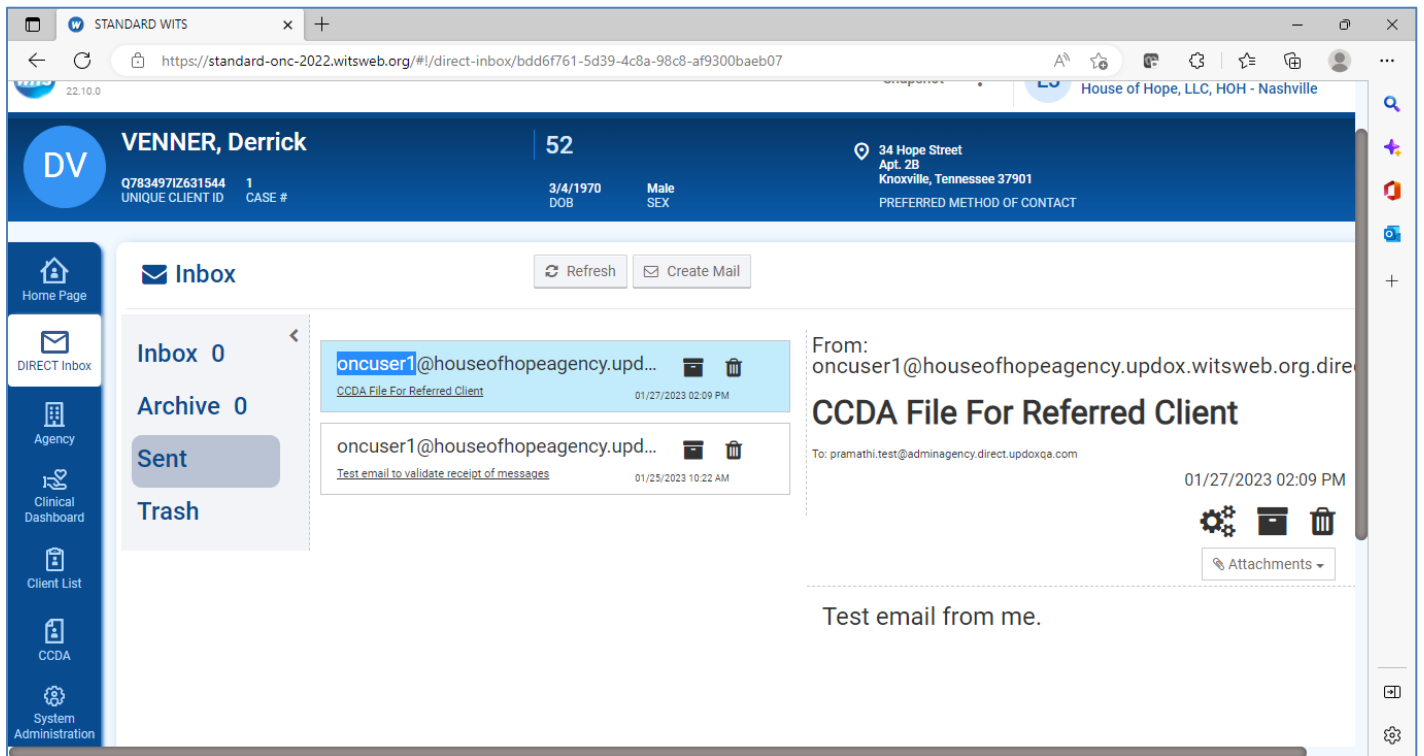


- The tester then created a DIRECT Message for an Encounter Summary CCDA. The testers chose a consent on file that allows the tester to send the file. This consent was attached to the message.





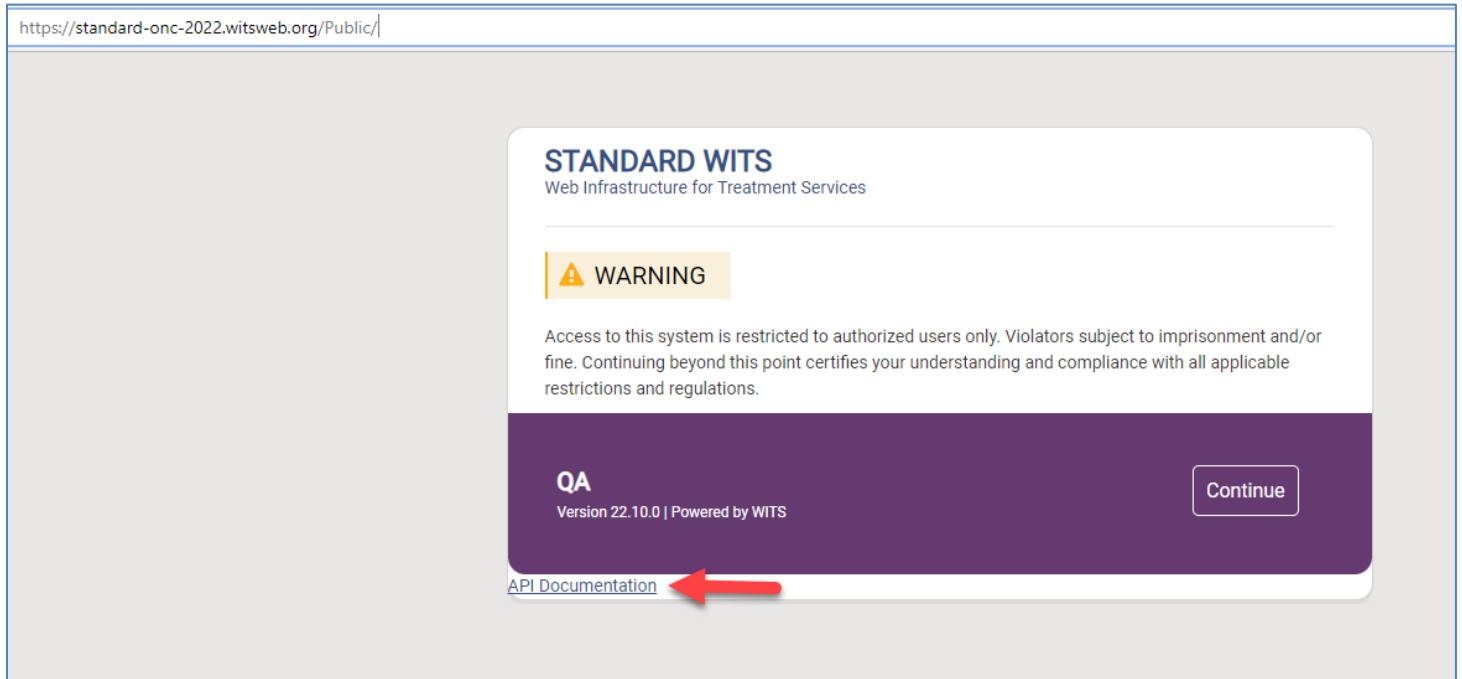
- The testers confirmed that the message was sent in their DIRECT Message Sent folder.



MEASURE 4 (G)(7, 8, 9)

Public API Documentation

At the landing page for the public WITS site <https://standard-onc-2022.witsweb.org/Public/>, the tester clicked on the link for API Documentation.



The page that displayed is the API documentation for using the following APIs to obtain:

- An authorization token
- The Patient Selection request (g)(7)
- Data Category Request (g)(8), and
- All Data Request (g)(9)

STANDARD WITS Version:22.10.0 2015 Edition API Documentation

User Authentication Request

Resource Description

This resource may be used to authenticate an existing user, taking in a username and password. Once the user is authenticated an authentication (JWT) token will be returned.

URL

[https://\(SECURITY_SERVER_URL\)/issue/simple?realm={wits:CUSTOMER_INSTANCE:ENVIRONMENT_LEVEL}&tokenType=jwt](https://(SECURITY_SERVER_URL)/issue/simple?realm={wits:CUSTOMER_INSTANCE:ENVIRONMENT_LEVEL}&tokenType=jwt)

Headers

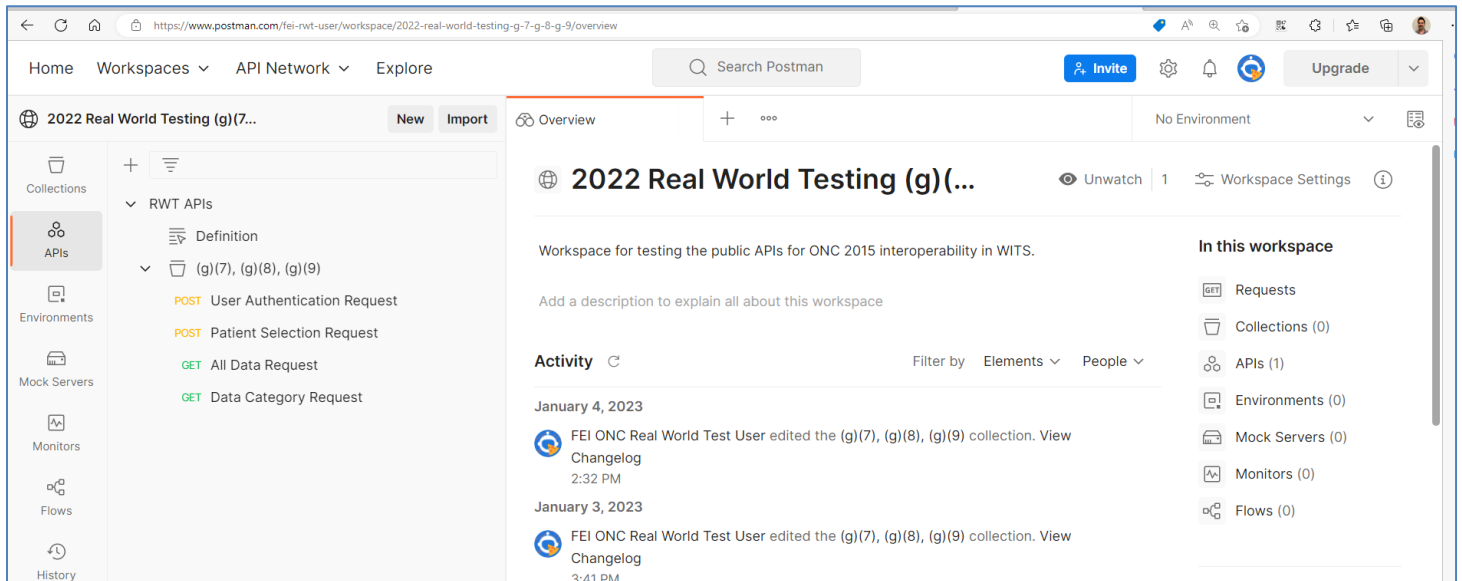
Key	Description
Authorization	Template: <scheme>{BASIC}<scheme> <credentials>{BASE64 ENCODED USERNAME AND PASSWORD}<credentials> Sample: Basic YWxhZGRpbjpcGVuc2VzYW11
Content-Type	Template: <content-type> Sample: application/json

URI Parameters

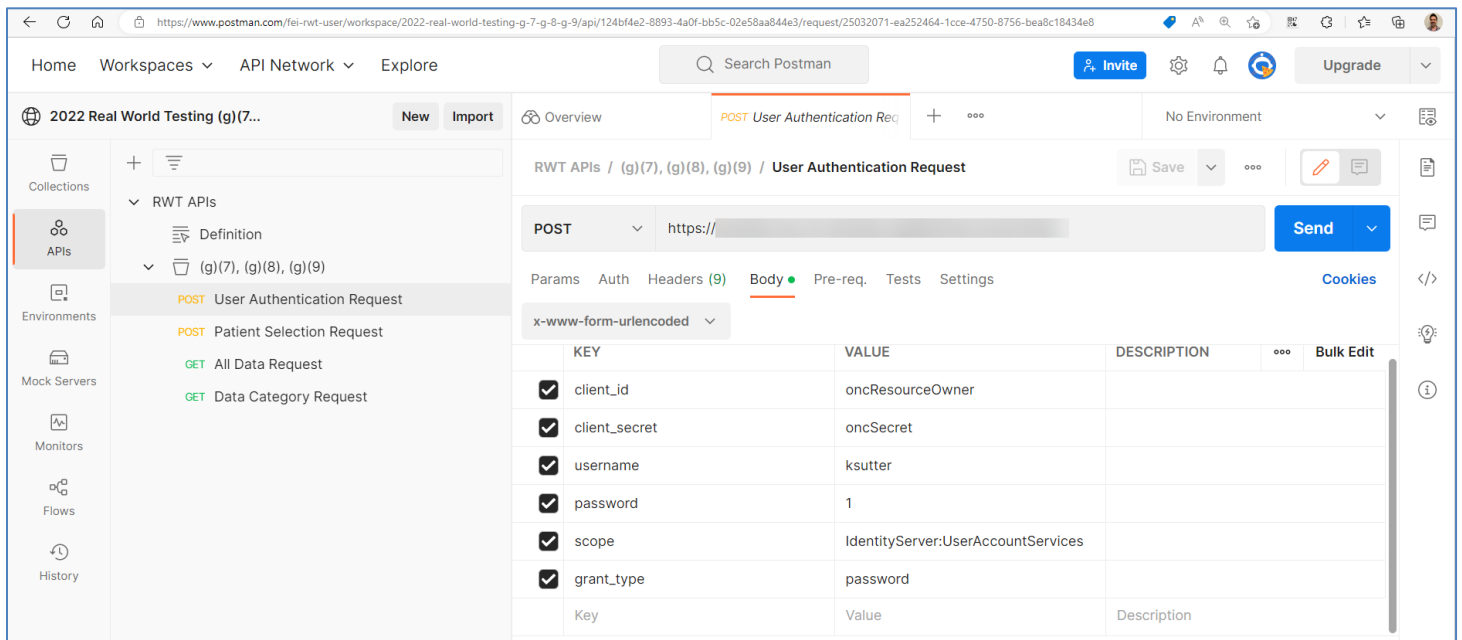
Name	Description	Type	Additional information
SECURITY_SERVER_URL	The customer security server web address.	--	Required
wits:CUSTOMER_INSTANCE:ENVIRONMENT_LEVEL	Includes the name of the customer's instance in addition to the environment level.	--	Required Valid Environment Levels: PROD, UAT, TRAIN, QA Example: wits:Maryland:QA

User Authentication Request

The tester logged into Postman.com and logged into the website:

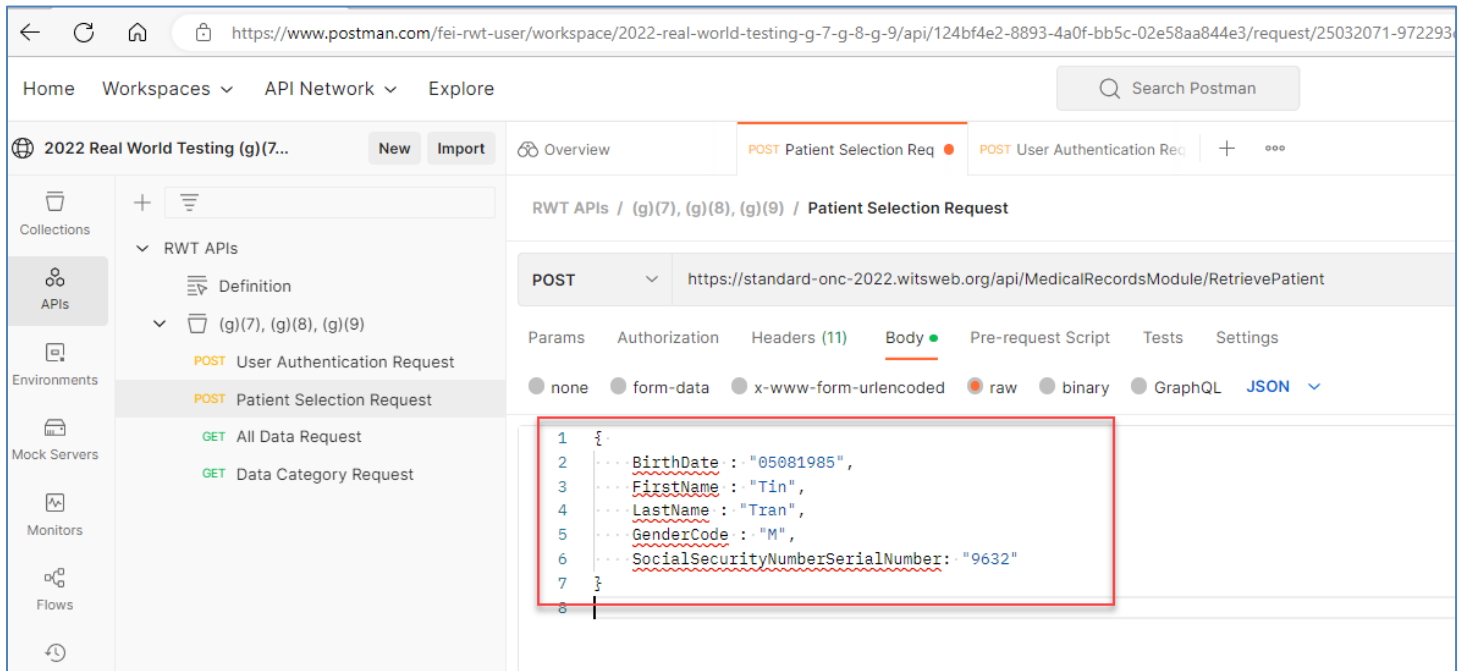


Using the public API documentation mentioned above, the tester created a POST call to the User Authentication Request API to authorize an existing user (taking in a username and password) to the security server and obtain a security token. The parameters used were entered in the Body of the API per the requirements of the Postman application. Note: the security server URL is blurred for security purposes but can be obtained by contacting FEI as this is a public document.

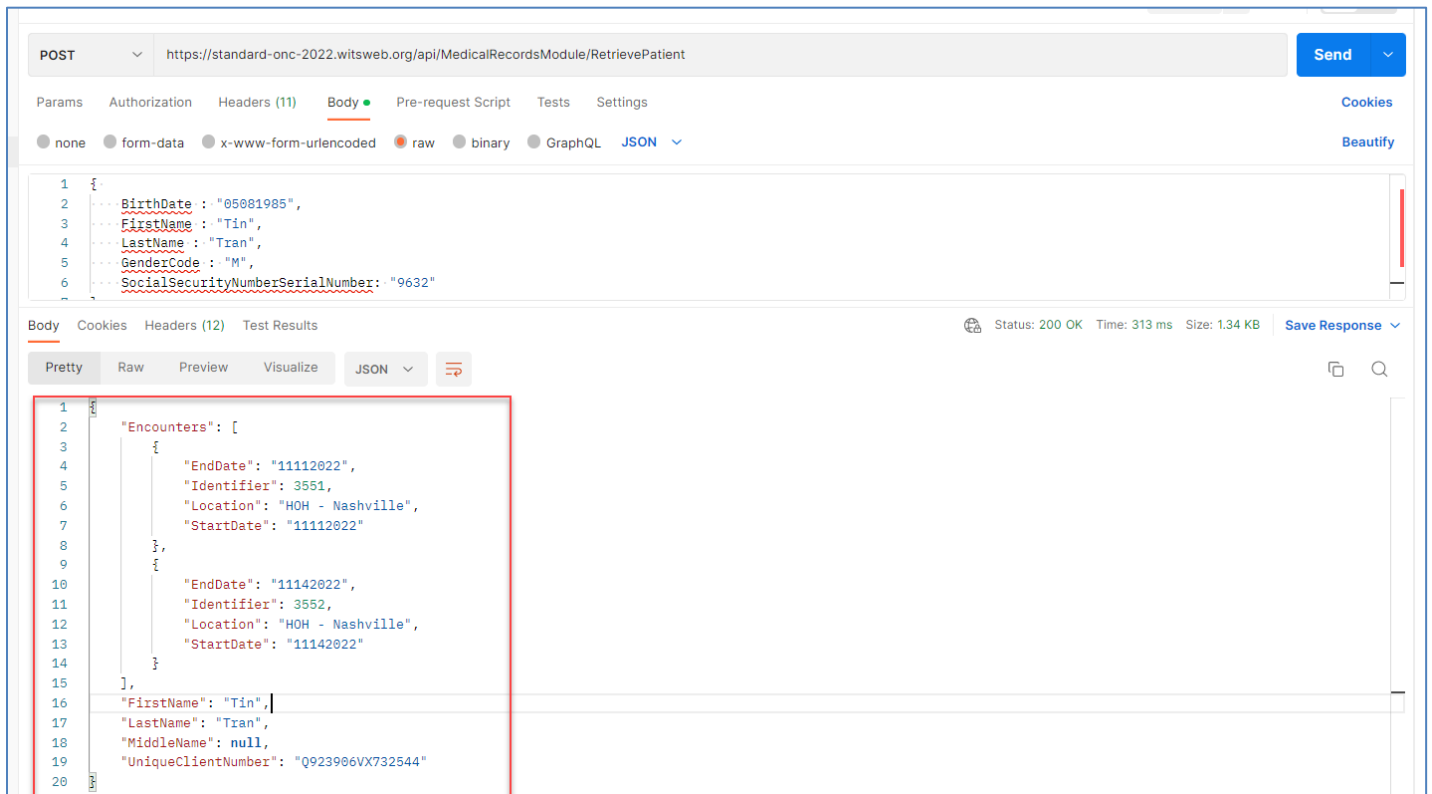


Clicking send resulted in the creation of a token, highlighted here. The tester copied this token to use for the other API calls.

In the body of the API, accessed by a link next to the Headers, the tester entered the client's birthdate, first and last names, gender code, and the last 4 digit's of their SSN. This information is required to return the list of encounters for that client.



The API was able to return the client's list of encounters and Unique Client Identifier (UCN) successfully.



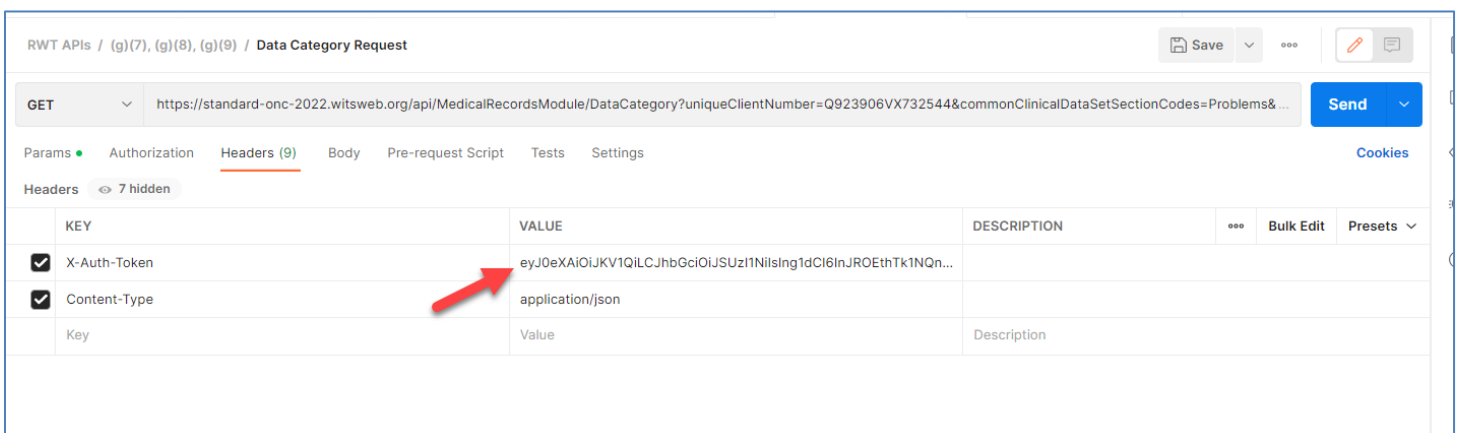
Data Category Request (g)(8)

The Data Category Request API returns in JSON format with each CCDA section as a JSON array of data elements for a given category:

- SmokingStatus,
- Problems,
- EncounterDiagnosis,
- Medications,
- Allergies,
- LabTests,
- LabResults,
- VitalSigns,
- Procedures,
- CareTeamMembers,
- Immunizations,
- ImplantableDevices,
- Assessments,
- Plan,Goals,
- HealthConcerns,
- Referral,
- FunctionalStatus, and
- CognitiveStatus

If no data is returned for a specific category then the section will be set as "No data exists for this requested data set."

The tester created a GET call according to Postman.com requirements and the API documentation. In the X-Auth-Token field in the Header, the tester pasted the user token gotten from the User Authentication Request API call.



RWT APIs / (g)(7), (g)(8), (g)(9) / Data Category Request

GET <https://standard-onc-2022.witsweb.org/api/MedicalRecordsModule/DataCategory?uniqueClientNumber=Q923906VX732544&commonClinicalDataSetSectionCodes=Problems&...> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Headers 7 hidden

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> X-Auth-Token	eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6InJROEthTk1NQN...	
<input checked="" type="checkbox"/> Content-Type	application/json	
Key	Value	Description

The user entered the client's UCN, Encounter ID, and Section Code in the Parameter section of the API as defined in the public API documentation. The tester obtained the values of the parameters from the results of the Patient Selection Request API.

RWT APIs / (g)(7), (g)(8), (g)(9) / Data Category Request

GET <https://standard-onc-2022.witsweb.org/api/MedicalRecordsModule/DataCategory?uniqueClientNumber=Q923906VX732544&commonClinicalDataSetSectionCodes=Problems&...> Send

Params • Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> uniqueClientNumber	Q923906VX732544			
<input checked="" type="checkbox"/> commonClinicalDataSetSectionCodes	Problems			
<input checked="" type="checkbox"/> Encounterid	3552			
Key	Value	Description		

The API returned the section data for the client defined in the parameters as shown below.

RWT APIs / (g)(7), (g)(8), (g)(9) / Data Category Request

GET <https://standard-onc-2022.witsweb.org/api/MedicalRecordsModule/DataCategory?uniqueClientNumber=Q923906VX732544&commonClinicalDataSetSectionCodes=Problems&...> Send

Params • Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (12) Test Results Status: 200 OK Time: 2.28 s Size: 1.76 KB Save Response

Pretty Raw Preview Visualize JSON

```

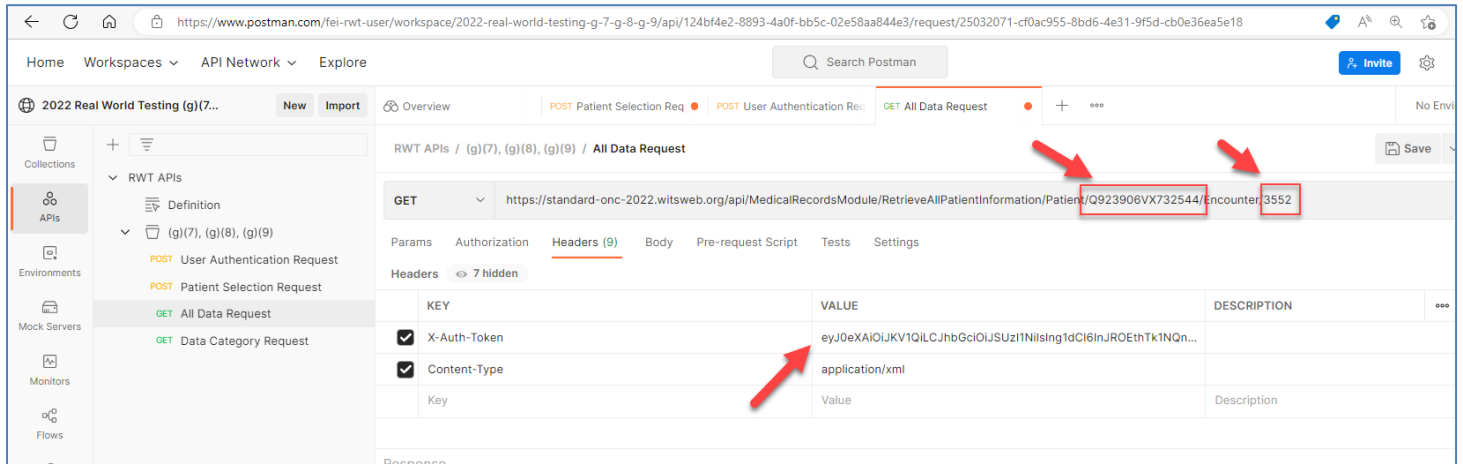
8      "ClientGenderDescription": "Male",
9      "ClientLanguageCode": "en",
10     "ClientRaceCode": "2028-9",
11     "ClientRaceDescription": "Asian",
12     "ClientSubRaceCode": "UNK"
13   },
14 ],
15   "FirstName": "Tin",
16   "LastName": "Tran",
17   "Problems": [
18     {
19       "ClientKey": 5313,
20       "ProblemCode": "231477003",
21       "ProblemKey": "62db0c0a-84dd-4ee6-b5e4-af930115ac3b",
22       "ProblemName": "Heroin dependence (disorder)",
23       "ProblemStartDate": "20221111",
24       "ProblemStartDateForFilter": "2022-11-11T00:00:00",
25       "ProblemStatus": "Active"
26     },
27     {
28       "ClientKey": 5313,
29       "ProblemCode": "288811000119105",
30       "ProblemKey": "59dd3034-f519-449d-a1be-af930115dc2d",
31       "ProblemName": "History of heroin abuse (situation)",
32       "ProblemStartDate": "20221111",
33       "ProblemStartDateForFilter": "2022-11-11T00:00:00",
34       "ProblemStatus": "Active"
35     }
36   ]
37 ]
  
```

Cookies Desktop Agent Runner Trash

All Data Request (g)(9)

This API may be used to retrieve all data elements from the clinical data set for a patient, taking in the patient token (unique client number) and an encounter identifier. The user's token is also required. If the clinical data set corresponding to the input information is found, then the XML payload representing the contents of the patient's CCDA data will be returned.

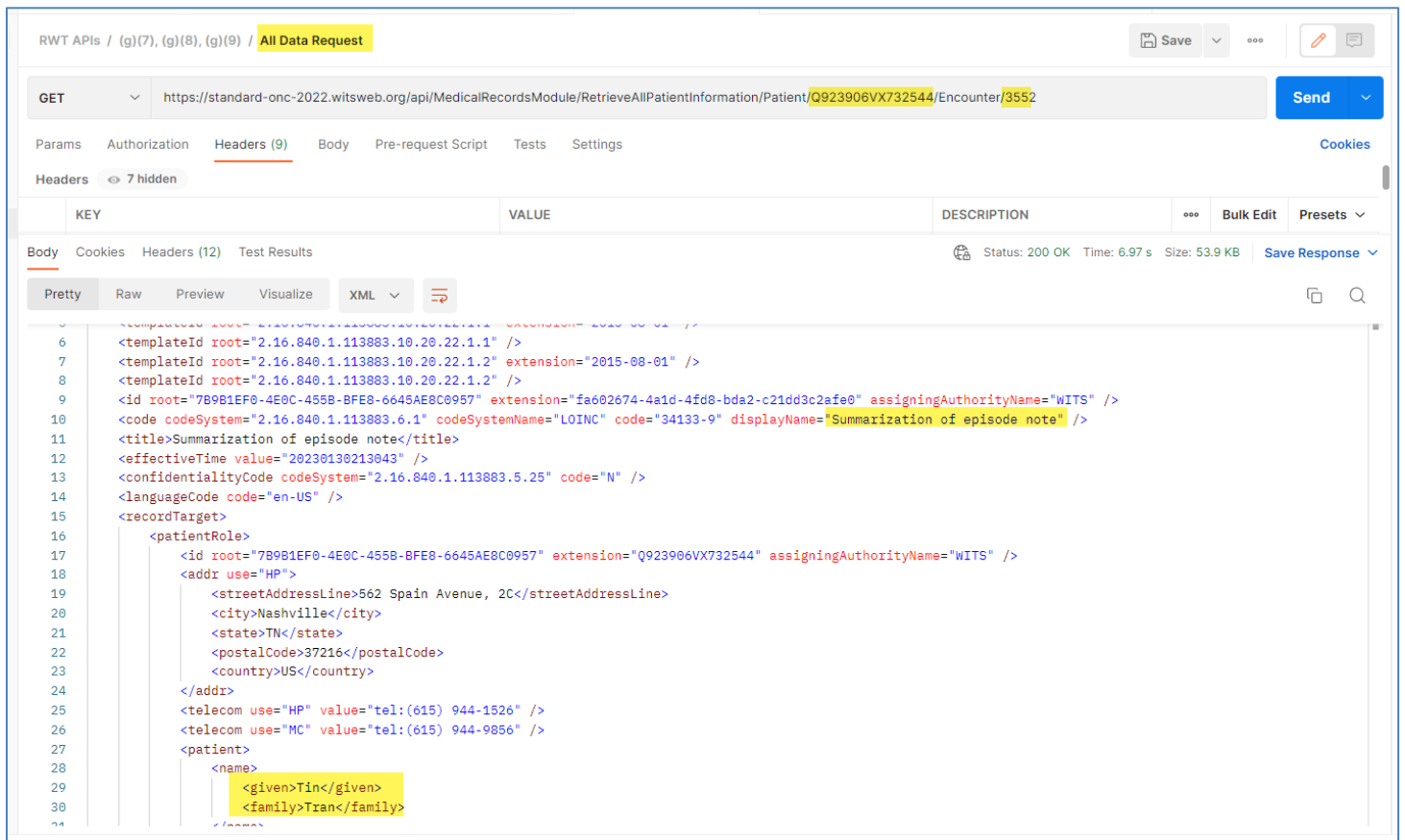
The tester created a GET API request according to what Postman.com requires and the public API documentation. In the Header section, the tester pasted the user token from the User Authentication Request into the X-Auth-Token Header. The tester then pasted the clients UCN and one of the Encounter IDs gotten from the results of the Patient Selection Request API into the URL of the GET request.



The screenshot shows the Postman interface for a GET request. The URL is `https://standard-onc-2022.witsweb.org/api/MedicalRecordsModule/RetrieveAllPatientInformation/Patient/Q923906VX732544/Encounter/3552`. The Headers section is expanded, showing:

KEY	VALUE	DESCRIPTION
X-Auth-Token	eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6InJROEthTk1NQN...	
Content-Type	application/xml	

The All Data Request API call generated a full “Summarization of episode note” CCDAs for the client as shown below.



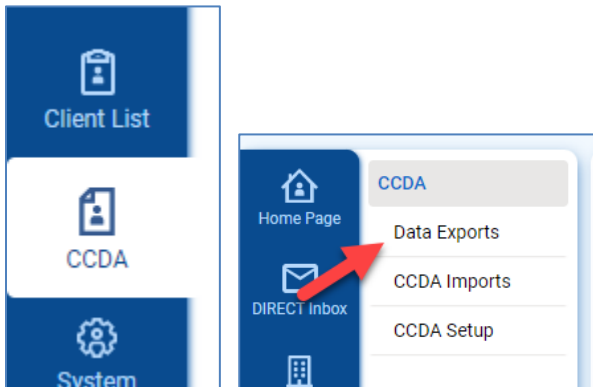
The screenshot shows the response body of the GET request, which is an XML document. The response status is 200 OK, with a time of 6.97 s and a size of 53.9 KB. The XML content includes a title "Summarization of episode note" and patient information:

```

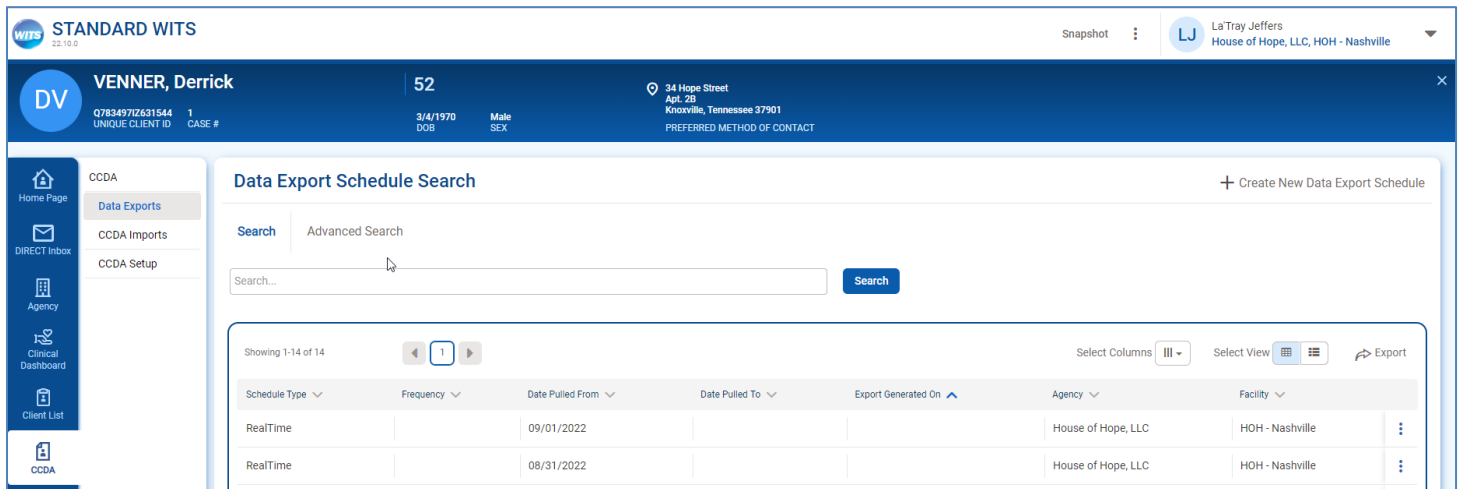
<templateId root="2.16.840.1.113883.10.20.22.1.1" />
<templateId root="2.16.840.1.113883.10.20.22.1.2" extension="2015-08-01" />
<templateId root="2.16.840.1.113883.10.20.22.1.2" />
<id root="7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957" extension="fa02674-4a1d-4fd8-bda2-c21dd3c2afe0" assigningAuthorityName="WITS" />
<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="34133-9" displayName="Summarization of episode note" />
<title>Summarization of episode note</title>
<effectiveTime value="20230130213043" />
<confidentialityCode codeSystem="2.16.840.1.113883.5.25" code="N" />
<languageCode code="en-US" />
<recordTarget>
  <patientRole>
    <id root="7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957" extension="Q923906VX732544" assigningAuthorityName="WITS" />
    <addr use="HP">
      <streetAddressLine>562 Spain Avenue, 2C</streetAddressLine>
      <city>Nashville</city>
      <state>TN</state>
      <postalCode>37216</postalCode>
      <country>US</country>
    </addr>
    <telecom use="HP" value="tel:(615) 944-1526" />
    <telecom use="MC" value="tel:(615) 944-9856" />
  </patientRole>
  <patient>
    <name>
      <given>Tin</given>
      <family>Tran</family>
    </name>
  </patient>
</recordTarget>
  
```

MEASURES 5 - 7 (B)(6)

- The testers navigated to the main CCDA menu to schedule CCDA exports according to (b)(6) criteria.



- In the Data Export Schedule Search screen, the testers chose the Create New Data Export Schedule link to access the CCDA Export scheduler



STANDARD WITS 22.10.0

VENNER, Derrick 52

Q7834972631544 1 UNIQUE CLIENT ID CASE #

3/4/1970 DOB Male SEX

34 Hope Street Apt. 2B Knoxville, Tennessee 37901

PREFERRED METHOD OF CONTACT

La'Tray Jeffers House of Hope, LLC, HOH - Nashville

CCDA

Data Exports

CCDA Imports

CCDA Setup

Agency

Clinical Dashboard

Client List

CCDA

Data Export Schedule Search

+ Create New Data Export Schedule

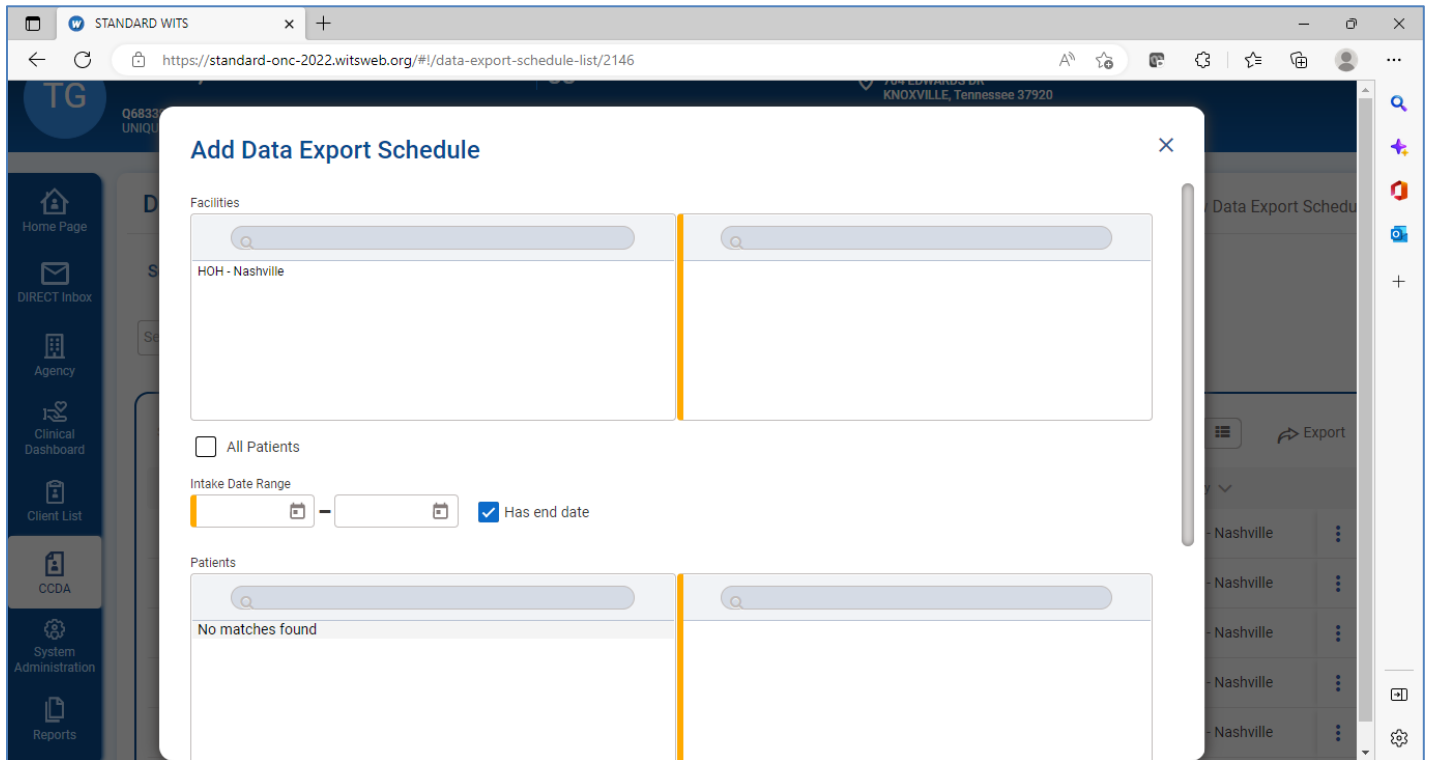
Search Advanced Search

Search... Search

Showing 1-14 of 14

Select Columns Select View Export

Schedule Type	Frequency	Date Pulled From	Date Pulled To	Export Generated On	Agency	Facility
RealTime		09/01/2022			House of Hope, LLC	HOH - Nashville
RealTime		08/31/2022			House of Hope, LLC	HOH - Nashville



- The testers scheduled CCDA exports in:
 - a. Real-time
 - b. One time in the future. Note: For testing, the testers scheduled the CCDA job to run 2 minutes in the future.
 - c. On a recurring basis. Note: Similar to the one-time export, the testers scheduled the CCDA recurring job to run 2 minutes into the future, but on a daily basis.

Add Data Export Schedule ✕

Facilities

<input type="text" value=""/> <p>No matches found</p>	<input type="text" value=""/> <p>HOH - Nashville ✕</p>
---	--

All Patients

Effective Date Range
 Has end date

Schedule Type

Recurring

One Time

Real Time

STANDARD WITS ✕ +

https://standard-nc-2022.witsweb.org/#/data-export-schedule-workspace/b3f152a4-2645-48e8-a1fe-af9700ff8db0?edit=true

Data Export Schedule 🔄

Done Editing 🖨️ + 📄 🔄

Home Page

DIRECT Inbox

Agency

Clinical Dashboard

Client List

CCDA

System Administration

Reports

▼ Data Export Schedule For

Data Export Schedule On

Facilities
HOH - Nashville

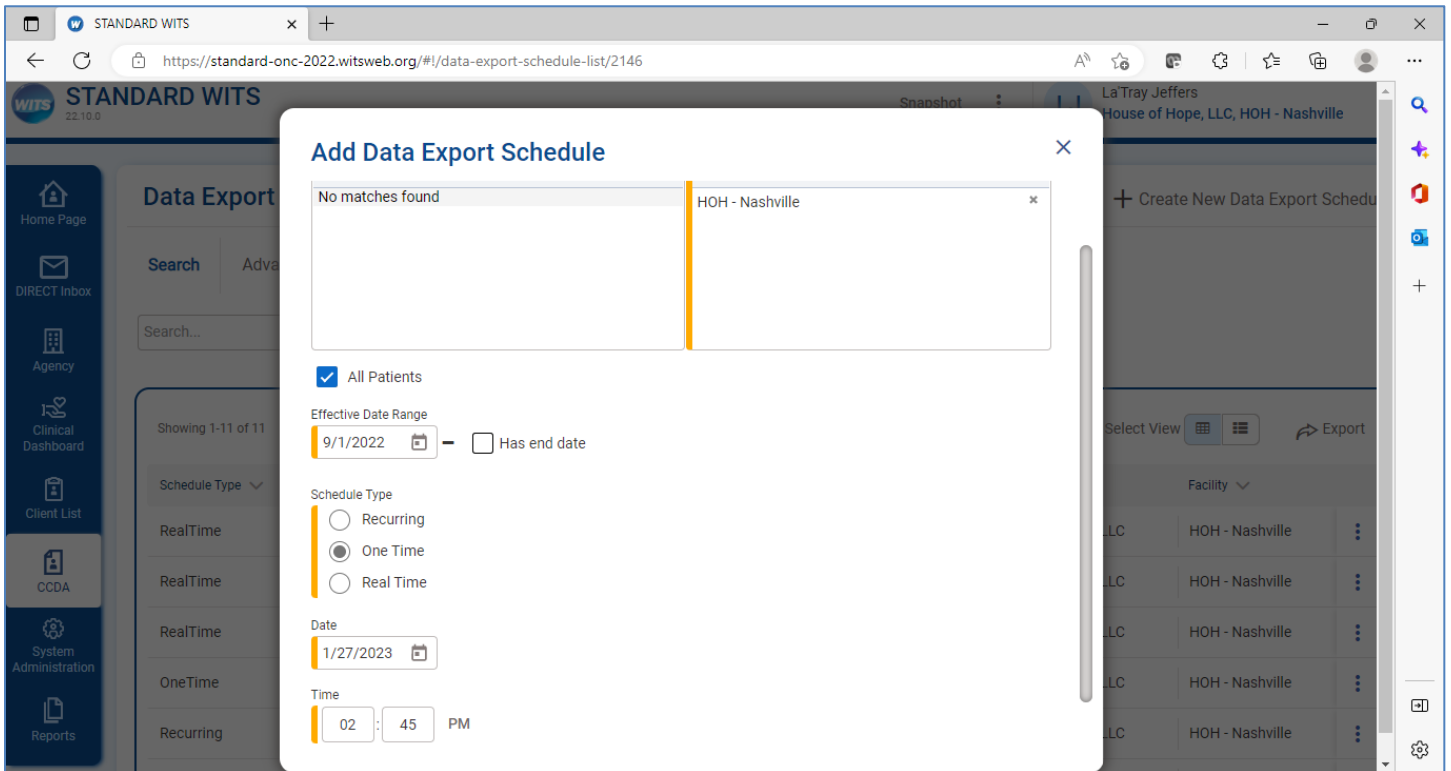
All Patients

Effective Date Range
09/01/2022 -

Intake Date Range
-

▼ Data Export Schedule On

Schedule Type
RealTime



STANDARD WITS 22.10.0

Add Data Export Schedule

No matches found | HOH - Nashville

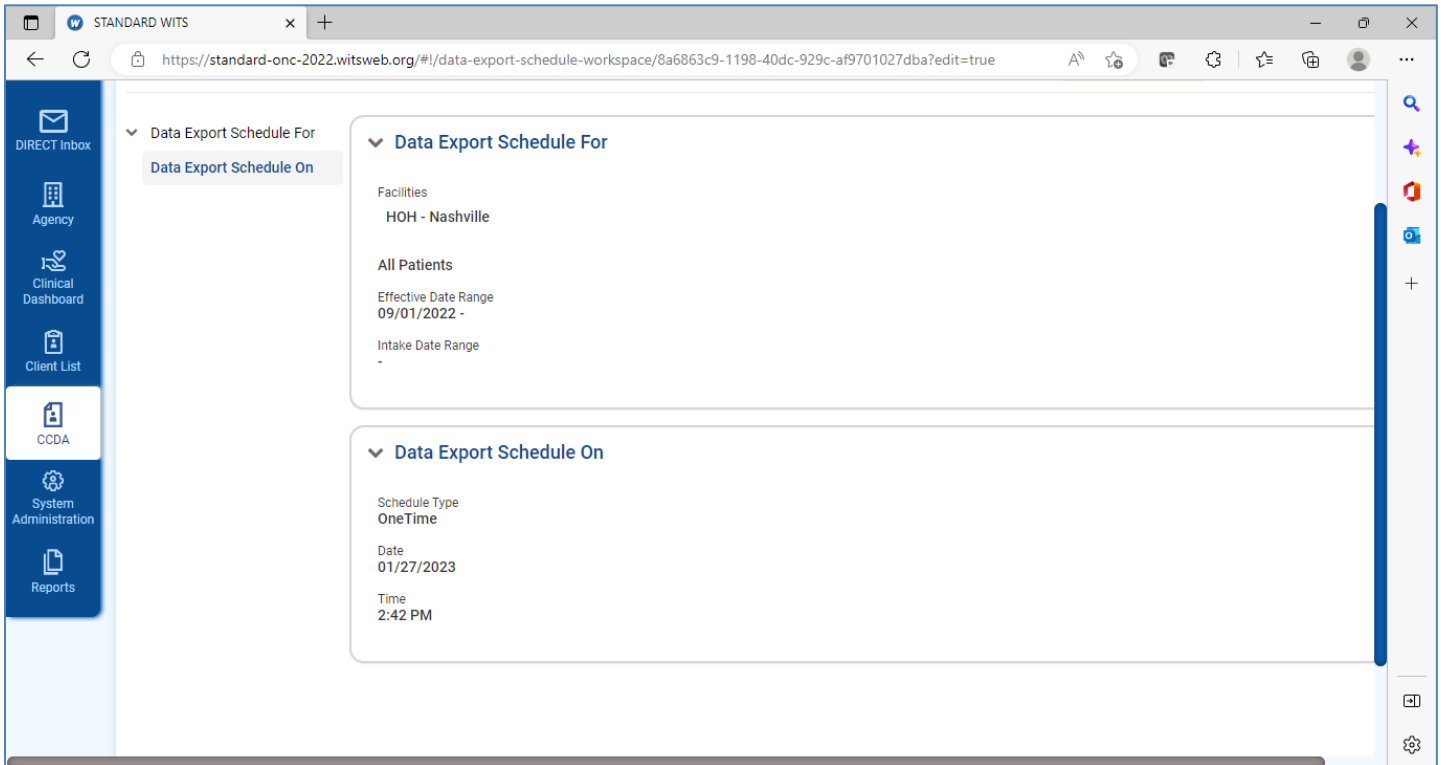
All Patients

Effective Date Range: 9/1/2022 Has end date

Schedule Type: Recurring, One Time, Real Time

Date: 1/27/2023

Time: 02 : 45 PM



STANDARD WITS

Data Export Schedule For

Data Export Schedule On

Facilities: HOH - Nashville

All Patients

Effective Date Range: 09/01/2022 -

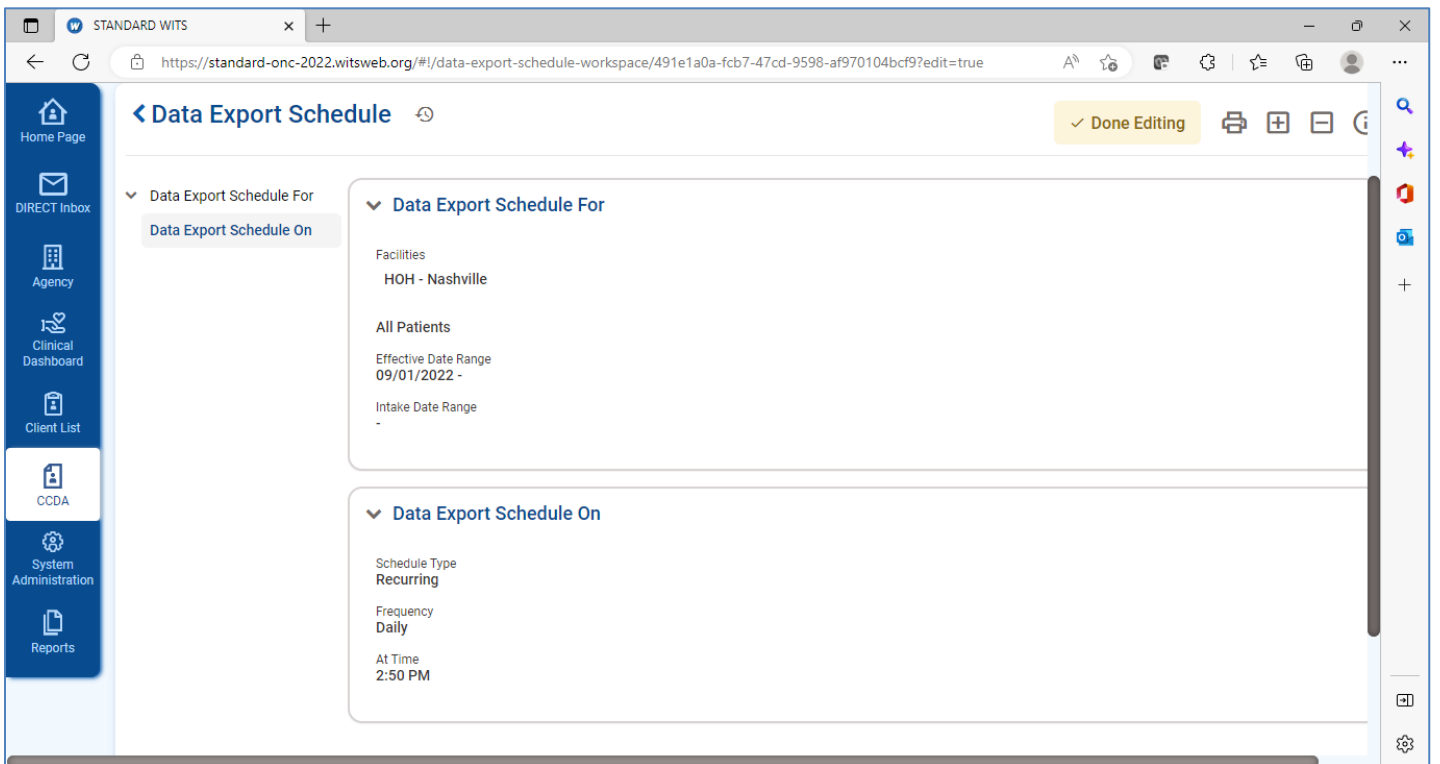
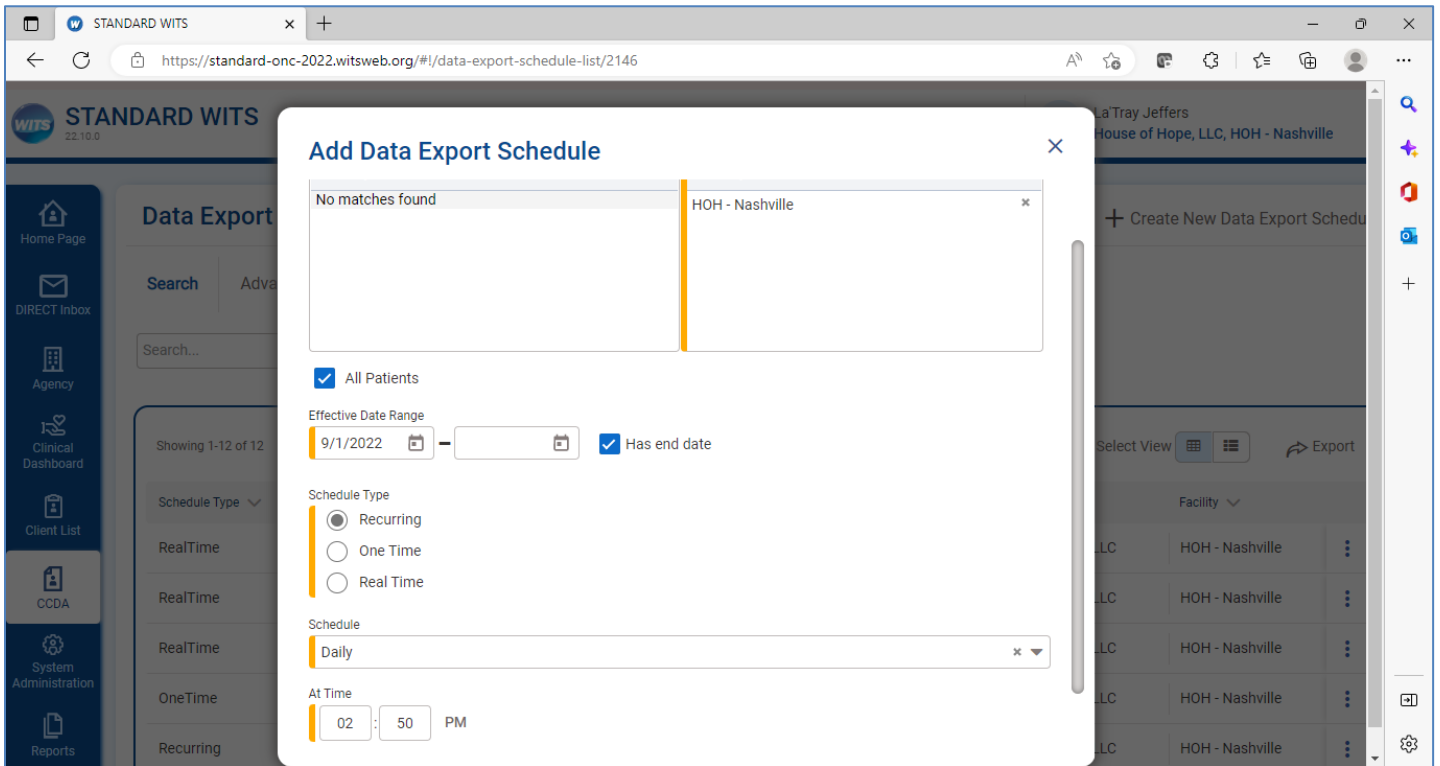
Intake Date Range: -

Data Export Schedule On

Schedule Type: OneTime

Date: 01/27/2023

Time: 2:42 PM



- All of the jobs that the testers scheduled were reflected in the CCD Export list

STANDARD WITS 22.10.0

VENNER, Derrick 52

Q783497Z631544 1 UNIQUE CLIENT ID CASE #

3/4/1970 DOB Male SEX

24 Hope Street Apt. 2B Knoxville, Tennessee 37901 PREFERRED METHOD OF CONTACT

Snapshot LJ LaTray Jeffers House of Hope, LLC, HOH - Nashville

Data Export Schedule Search

Search Advanced Search

Search... Search

Showing 1-14 of 14

Schedule Type	Frequency	Date Pulled From	Date Pulled To	Export Generated On	Agency	Facility
Recurring	Daily	09/01/2022		01/30/2023	House of Hope, LLC	HOH - Nashville
Recurring	Daily	09/02/2022		01/29/2023	House of Hope, LLC	HOH - Nashville
Recurring	Daily	09/01/2022		01/29/2023	House of Hope, LLC	HOH - Nashville
OneTime		09/02/2022		01/27/2023	House of Hope, LLC	HOH - Nashville
RealTime		09/01/2022		01/27/2023	House of Hope, LLC	HOH - Nashville

- For each job, the testers opened the export job record to save the zip file of CCDAs to another directory on the tester's computer. They verified each CCDAs file by opening it in a web browser.

STANDARD WITS

https://standard-onc-2022.witsweb.org/#/data-export-schedule-list/2146

Data Export Schedule Search

Search Advanced Search

Search...

Showing 1-14 of 14

Data Export Links

Export Created Date	Export Generated Date	Agency	Facility
01/27/2023	01/27/2023	House of Hope, LLC	HOH - Nashville

RealTime

RealTime

OneTime

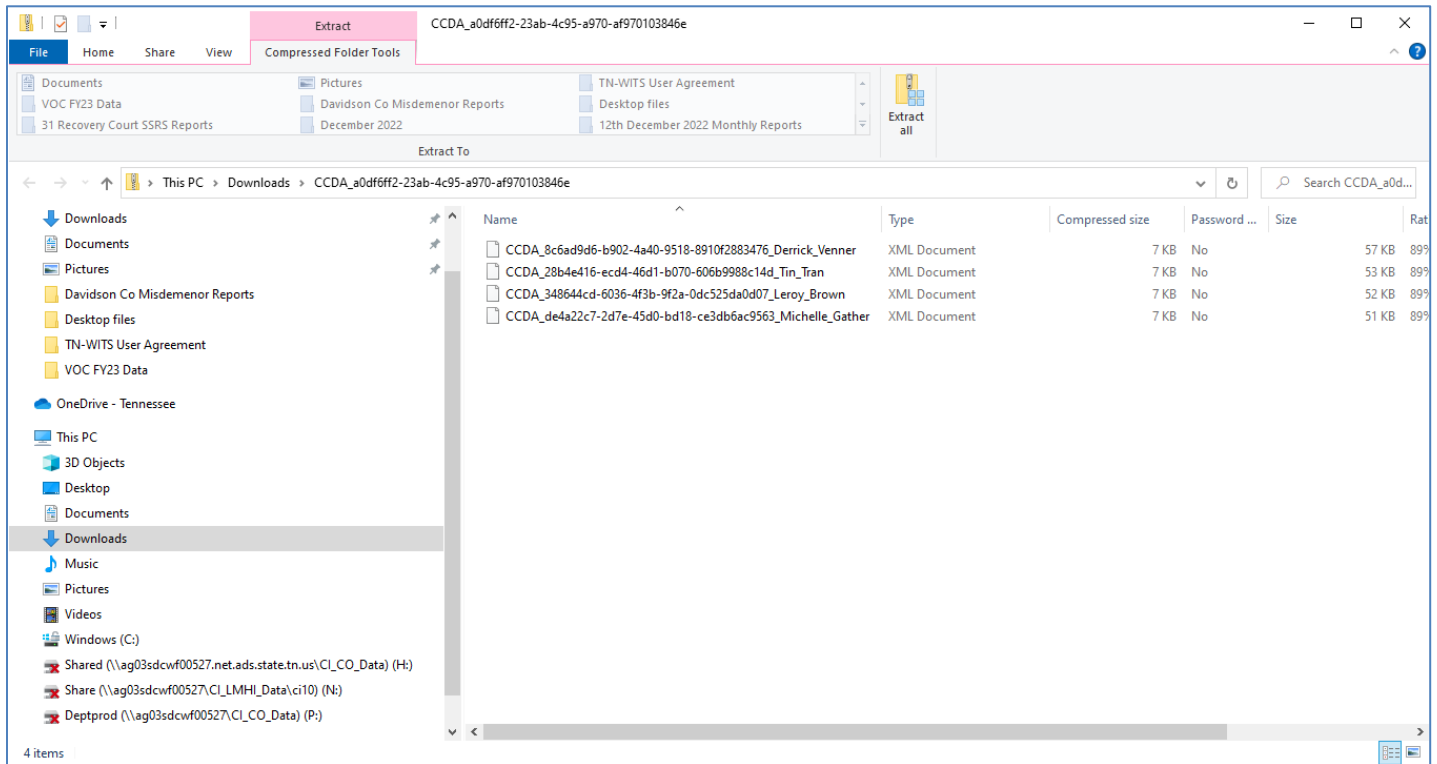
OneTime

OneTime

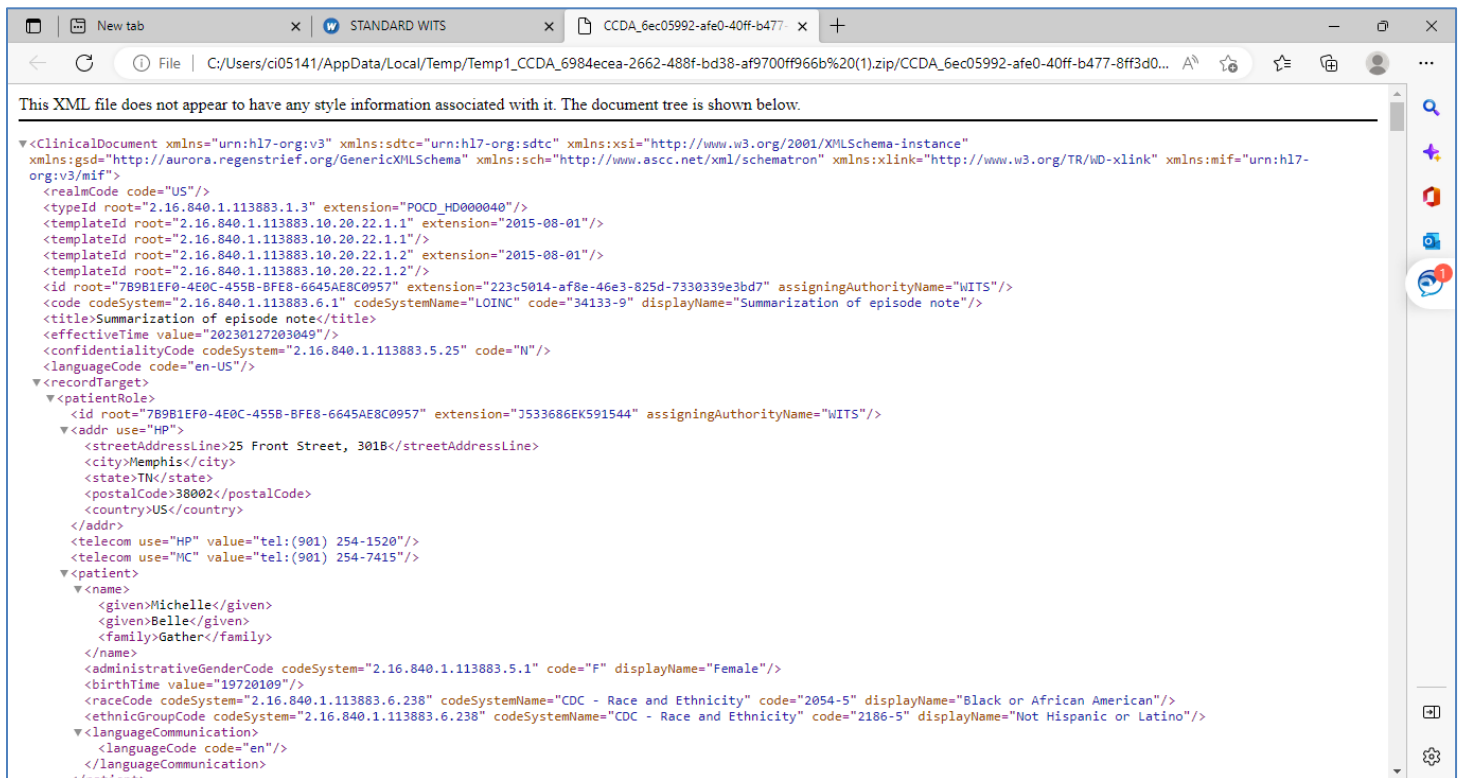
OneTime

RealTime

OneTime



Name	Type	Compressed size	Password ...	Size	Rat
CCDA_8c6ad9d6-b902-4a40-9518-8910f2883476_Derrick_Venner	XML Document	7 KB	No	57 KB	89%
CCDA_28b4e416-ecd4-46d1-b070-606b9988c14d_Tin_Tran	XML Document	7 KB	No	53 KB	89%
CCDA_348644cd-6036-4f3b-9f2a-0dc525da0d07_Leroy_Brown	XML Document	7 KB	No	52 KB	89%
CCDA_de4a22c7-2d7e-45d0-bd18-ce3db6ac9563_Michelle_Gather	XML Document	7 KB	No	51 KB	89%



```

<ClinicalDocument xmlns="urn:h17-org:v3" xmlns:sdtc="urn:h17-org:sdtc" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gsd="http://aurora.regenstrief.org/GenericXMLSchema" xmlns:sch="http://www.ascc.net/xml/schematron" xmlns:xlink="http://www.w3.org/TR/wd-xlink" xmlns:mif="urn:h17-
org:v3/mif">
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2015-08-01"/>
  <templateId root="2.16.840.1.113883.10.20.22.1.1"/>
  <templateId root="2.16.840.1.113883.10.20.22.1.2" extension="2015-08-01"/>
  <templateId root="2.16.840.1.113883.10.20.22.1.2"/>
  <id root="7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957" extension="223c5014-afe8-46e3-825d-7330339e3bd7" assigningAuthorityName="WITS"/>
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="34133-9" displayName="Summarization of episode note"/>
  <title>Summarization of episode note</title>
  <effectiveTime value="20230127203049"/>
  <confidentialityCode codeSystem="2.16.840.1.113883.5.25" code="N"/>
  <languageCode code="en-US"/>
  <recordTarget>
    <patientRole>
      <id root="7B9B1EF0-4E0C-455B-BFE8-6645AE8C0957" extension="J533686EK591544" assigningAuthorityName="WITS"/>
      <addr use="HP">
        <streetAddressLine>25 Front Street, 301B</streetAddressLine>
        <city>Memphis</city>
        <state>TN</state>
        <postalCode>38002</postalCode>
        <country>US</country>
      </addr>
      <telecom use="HP" value="tel:(901) 254-1520"/>
      <telecom use="HC" value="tel:(901) 254-7415"/>
    </patientRole>
    <patient>
      <name>
        <given>Michelle</given>
        <given>Belle</given>
        <family>Gather</family>
      </name>
      <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1" code="F" displayName="Female"/>
      <birthTime value="19720109"/>
      <raceCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDC - Race and Ethnicity" code="2054-5" displayName="Black or African American"/>
      <ethnicGroupCode codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDC - Race and Ethnicity" code="2186-5" displayName="Not Hispanic or Latino"/>
      <languageCommunication>
        <languageCode code="en"/>
        <languageCommunication/>
      </languageCommunication>
    </patient>
  </recordTarget>
</ClinicalDocument>

```

Attestation

The Real World Testing activities and results are complete and documented herein for the 2022 test year, which included the applicable measures that address all certification criteria listed. All information in this results document is up-to-date and fully addresses the health IT developer's Real World Testing requirements as determined by the 2022 Real World Test plan. Any deviations from the 2022 Real World Test plan have been addressed in the Justifications section.

Authorized Representative Name: Nik Garifalos

Authorized Representative Email: Nik.Garifalos@feisystems.com

Authorized Representative Phone: (443) 270 - 5143

Authorized Representative Signature:

Date: 1/31/2023

Nik Garifalos

