# athenaFlow 2024 Real World Test Results (v22 and v23)

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# **General Information**

Plan Report ID Number: [For ONC-Authorized Certification Body use only] Developer Name: athenahealth, Inc Product Name(s): athenaFlow Version Number(s): v22\_(withdrawn), v23 (withdrawn), v24 Product List (CHPL) ID(s): 15.04.04.2880.flow.24.07.1.241222 Withdrawn Product List (CHPL) ID(s): 15.04.04.2880.flow.22.05.1.220621; 15.04.04.2880.flow.23.06.1.230403 Developer Real World Testing Page URL: <u>https://www.athenahealth.com/onc-certified-health-it</u>

# Justification for Real World Testing approach

At this time, athenaFlow v22 and v23 are certified Electronic Health Records (EHR) that are sold to primary care, specialty and multi-specialty ambulatory groups. Functionality within the EHR greatly overlaps regardless of care setting, but the Real World Testing plan aims to incorporate data from as diverse a set of these settings as is possible.

As all of the certification criteria apply broadly to the care settings noted above, the Real World Testing plan will incorporate several certification criteria into one plan:

- §170.315(b)(1) Transitions of Care
- §170.315(b)(2) Clinical Information Reconciliation and Incorporation
- §170.315(b)(3) Electronic Prescribing
- §170.315(b)(9) Care Plan
- §170.315(b)(10) Electronic Health Information Export
- §170.315(c)(1) CQMs Record and Export
- §170.315(c)(2) CQMs Import and Calculate

- §170.315(c)(3) CQMs Report
- §170.315(e)(1) View, Download, and Transmit to 3<sup>rd</sup> Party
- §170.315(f)(1) Transmission to Public Health Agencies Immunization Registry
- §170.315(f)(2) Transmission to Public Health Agencies Syndromic Surveillance
- §170.315(f)(5) Transmission to Public Health Agencies Electronic Case Reporting
- §170.315(g)(7) Application Access Patient Selection
- §170.315(g)(9) Application Access All Data Request
- §170.315(g)(10) Standardized API for patient and population services
- §170.315(h)(1) Direct Project

# Standards Updates (SVAP and USCDI)

Standard (and version)	All standards versions are as specified in regulation except for:
	§170.315(c)(3) – CQMs – Report
	CMS Implementation Guide for Quality Reporting Document Architecture:
	Category III; Eligible Clinicians and Eligible Professionals Programs;
	Implementation Guide for 2024
Date of ONC-ACB notification	January 2025 (next quarterly attestation)
(SVAP or USCDI)	
Date of customer notification	July 2025
(SVAP only)	
USCDI-updated criteria	Not applicable

# Care Setting(s)

See summary of supported care settings listed in the "Justification for Real World Testing Approach" section.

# **Overall Expected Outcomes**

- Real World Testing will demonstrate that the EHR is conformant to the criteria listed in the "Justification for Real World Testing" section.
- See below for measures and outcomes associated with the use cases associated with the listed certification criteria.

# Measure Used

Use Case 1 – During the course of ambulatory care, providers share patient records (CCDAs) with each other and where appropriate, reconcile key clinical data elements into the chart.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (b)(1) Transition of care	• Medical Office Technologies ezAccess	(i) Send and receive via edge protocol
	Patient Portal OR	(ii) Validate and display
	<ul> <li>Medical Office Technologies ezAccess</li> <li>Direct Messaging</li> </ul>	(iii) Create
§ 170.315 (b)(2) Clinical information	Qvera Interface Engine	(i) General requirements
reconciliation and incorporation		(iii) Reconciliation
§ 170.315 (b)(9) Care plan	N/A	Enable a user to record, change, access,
		create, and receive care plan information
		in accordance with the Care Plan
		document template
§ 170.315 (h)(1) Direct project	• Medical Office Technologies ezAccess	(i) Applicability Statement for Secure
	Patient Portal OR	Health Transport
	<ul> <li>Medical Office Technologies ezAccess</li> <li>Direct Messaging</li> </ul>	(ii) Delivery Notification in Direct

<u>Measure 1: Create and send a CCDA</u>: This measure will evaluate the creation and sending of required CCDAs (Referral Note, CCD) at scale across many providers using athenaFlow in a live production environment.

- <u>Justification</u>: A statistically significant sample size of CCDAs generated and sent by athenaFlow spanning multiple organizations with expected errors will validate successful use in the real world.
- <u>Test Methodology</u>: System logs will be evaluated for the required types of CCDAs that were created and sent.
- <u>Expected Outcomes:</u> Success is defined as CCDAs of the required types successfully being created and sent via Direct with expected errors (e.g., invalid direct address, no response from receiver, etc.)

<u>Measure 2: Receive and display a CCDA</u> – This measure will demonstrate EHR ability to receive and display a CCDA of the required types (Referral Note, CCD, Care Plan) in a live production environment.

- <u>Justification</u>: Two sub-measures will be evaluated: 1) A manual evaluation of examples of each required type of CCDA (Referral Note, CCD and Care Plan) will show that athenaFlow can successfully receive and display CCDAs. 2) An evaluation of a statistically significant number of CCDAs received by providers using athenaFlow spanning multiple organizations will validate successful use in the real world.
- <u>Test Methodology:</u> 1) Examples of CCDAs of each type will be randomly selected for manual review spanning various care settings in the athenaFlow network. 2) System logs will be evaluated to identify CCDAs that were successfully received.
- <u>Expected Outcomes:</u> Success is defined as:
   1) Chosen examples are successfully received and displayed.
   2) CCDAs successfully received via Direct.

<u>Measure 3: Receive and reconcile a CCDA</u> – This measure will demonstrate EHR ability to receive and reconcile required CCDAs (Referral Note, CCD) in a live production environment.

- <u>Justification</u>: An evaluation of reconciliation use spanning a statistically significant number of active users spanning multiple organizations will validate successful use in the real world.
- <u>Test Methodology</u>: System logs will be evaluated to determine the number of users that successfully reconcile at least one CCDA using CEHRT.
- Expected Outcomes: A high number of users successfully use CEHRT to receive and reconcile data into patient charts.

# Use Case 1 Outcomes

Removed MedAllies and Qvera Interface Engine as relied upon software as no athenaFlow customers are using MedAllies.

Measure	Outcomes	Challenges
1: Create and send a CCDA	Review of audit logs of Direct transactions via the	• Unable to break data out by
	following HISP's yielded these results:	CCDA document type
	ezAccess: 15,173 total messages and 90 failures for	
	six customers during the period of 6/1/24 to	
	12/1/24.	
	Ex: Bad address, bad email, connection errors.	
2: Receive and display a	Sub-measure 1: An example Referral Note, Care	Unable to break data out by
CCDA	Plan and CCD were successfully received and	CCDA document type.
	displayed in athenaFlow, yielding a 100% success	
	rate.	
	Sub-measure 2: Review of audit logs of Direct	
	transactions via ezAccess yielded confirmation of	
	30,647 total messages received for six customers	
	during the period of 6/1/24 to 12/1/24.	
3: Receive and reconcile a	Review of audit logs for 05/04/24 – 06/23/24 for one	• Data was only available for
CCDA	customer yielded validation that two unique	one athenaFlow customer
	providers reconciled at least one item from a CCDA.	during RWT data collection

Use Case 2 – During the course of ambulatory care, patients access a copy of their record (CCDs) for viewing, downloading and/or transmitting.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (e)(1) View, download, and transmit to 3 <sup>rd</sup> party	<ul> <li>Medical Office Technologies ezAccess Patient Portal OR</li> <li>Medical Office Technologies ezAccess Direct Messaging</li> </ul>	<ul> <li>(i) (A) View</li> <li>(i)(B) Download</li> <li>(i)(C) Transmit to third party</li> </ul>
§ 170.315 (h)(1) Direct project	<ul> <li>Medical Office Technologies ezAccess Patient Portal OR</li> <li>Medical Office Technologies ezAccess Direct Messaging</li> </ul>	<ul><li>(i) Applicability Statement for Secure Health Transport</li><li>(ii) Delivery Notification in Direct</li></ul>

<u>Measure 1: Validate user behavior around view actions</u> – This measure will demonstrate the ability for a patient to preview a CCD document template in a live production environment of their patient portal.

- Justification: The CCD document template contains all required data elements in § 170.315 (e)(1)(i)(A)
- <u>Test Methodology:</u> System logs will be evaluated to identify successful CCD document views in the patient portal.
- <u>Expected Outcomes:</u> Success is defined by the number of successful CCD document views.

<u>Measure 2: Validate user behavior around download actions</u> – This measure will demonstrate the ability for a patient to download a CCD document template in a live production environment of their patient portal.

- <u>Justification:</u> An evaluation of a statistically significant number of CCD document downloads spanning multiple organizations will demonstrate the successful real-world use of the download feature.
- <u>Test Methodology</u>: System logs will be evaluated to identify successful CCD document downloads in the patient portal.
- <u>Expected Outcomes:</u> Success is defined by the number of successfully download CCD documents.

<u>Measure 3: Validate user behavior around transmit actions</u> – This measure will demonstrate the ability for a patient to transmit a CCD document template to a third party in a live production environment of their patient portal.

- <u>Justification:</u> An evaluation of a statistically significant number of CCD document transmissions spanning multiple organizations will demonstrate the successful real-world use of the transmit feature.
- <u>Test Methodology:</u> System logs will be evaluated to identify the volume of successful CCD document transmits in the portal. The analysis will break out use of transmission via either Direct or email.
- Expected Outcomes: Success is defined as:
  - CCD documents successfully sent via Direct with expected errors (e.g., invalid Direct address, lack of response, etc.)
  - o CCD documents successfully sent via email with expected errors (e.g., invalid email address, etc.)

## Use Case 2 Outcomes

Removed MedAllies and Qvera Interface Engine as relied upon software as no athenaFlow customers are using MedAllies.

Measure	Outcome	Challenges
1: Validate user behavior	Review of audit logs of patient views via the ezAccess	N/A
around view actions	Portal yielded 60,154 views for six customers during	
	the period of 6/1/24 to 12/1/24.	
2: Validate user behavior	Review of audit logs of patient downloads via the	N/A
around download actions	ezAccess portal yielded 884 downloads for six	
	customers during a period of 6/1/24 to 12/1/24.	
3: Validate user behavior	Review of audit logs of patient transmits via the	N/A
around transmit actions	ezAccess portal yielded the following results:	
	Transmit via Email: 123 transmits for six customers	
	during the period of 6/1/24 to 12/1/24.	
	Transmit via Direct: 89 transmits for six customers	
	during the period of 6/1/24 to 12/1/24.	
	There were five errors spanning both email and Direct,	
	with most due to direct address being invalid.	

Use Case 3 – EHR users export Electronic Health Information (EHI) for one or many patients for the purpose of sharing with providers, patients or moving bulk data to another EHR.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (b)(10)Electronic	Qvera Interface Engine	(i) General requirements for export
health information export		summary configuration
		(ii) Creation
		(iii) Timeframe configuration
		(iv) Location configuration

<u>Measure 1: Single/Multi patient export</u> – This measure will assess functionality used to export EHI for a single patient and multiple patients in a production environment.

- <u>Justification</u>: The evaluation of statistically significant number of exports by users spanning multiple organizations using athenaFlow will demonstrate the real-world utility of the data export.
- <u>Test Methodology:</u> System logs will be reviewed to determine the volume of exports generated in various configurations (e.g., single-patient, multi-patient, etc.) and only by authorized users.
- <u>Expected Outcomes:</u> Only authorized users will be able to successfully create export summaries and there will be evidence of successful exports using various configurations (e.g., single-patient, multi-patient, etc.)

# Use Case 3 Outcomes

No Changes from plan.

Measure	Outcome	Challenges
1: Single/Multi	Due to lack of production data representing the use	None of the athenaFlow customers are
patient export	of this feature, an internal validation of the feature was successfully executed in a test environment with test data, yielding a 100% success rate.	using EHI Export during RWT data collection

#### Use Case 4 - Clinicians electronically prescribe medications.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (b)(3) Electronic	Dr First Rcopia	(i)(A) Enable a user to perform the following prescription-related electronic transactions
prescribing		<ul><li>(i)(C) For the following transactions, the</li><li>technology must be able to receive and transmit</li><li>the reason for the prescription</li></ul>

Measure 1: Transaction success rates - This measure will evaluate successful use of required eRx transaction types in a production environment.

- Justification: A statistically significant sample size of electronic prescriptions spanning multiple organizations using . athenaFlow will demonstrate the real-world utility of the feature.
- Test Methodology: System logs will be reviewed to determine frequency of errors for each transaction type. .
- Expected Outcomes: Transactions are successfully delivered with expected errors (e.g., pharmacy does not support • electronic transactions) and achieve the following transaction success rates. Data validation errors are prevented, or end user is notified of errors when appropriate:
  - NewRx 99%
  - RxChange 90%
  - CancelRx 98%
  - RxRenewal 97%
  - RxFill 100%
  - Medication History 99%

#### Use Case 4 Outcomes

#### No Changes from plan.

Measure	Outcomes	Challenges
1: Transaction	Review of audit logs of all athenaFlow customers yielded the	N/A
success rates	following results:	
	<ul> <li>Range: 1/1/24 – 6/30/24</li> </ul>	
	<ul> <li>NewRx: 99.5% success rate</li> </ul>	
	<ul> <li>CancelRx: 99.41% success rate</li> </ul>	
	<ul> <li>RxRenewal: 98.63% success rate</li> </ul>	
	• Medication History: 100% success rate	
	<ul> <li>RxFill: 100% success rate</li> </ul>	
	• Range: 05/07/24 - 08/03/24	
	<ul> <li>RxChange: 99.75% success rate</li> </ul>	
	Notes on analysis: Prescriber responses to a RxChange request from the pharmacy	
	with a response resulted in successful transmission are considered numerator	
	Compliant.	
	Transmission statuses considered for numerator compliance:	
	Message type not supported by sender	
	NCPDPID does not match header value	
	Patient DOB does not match with the request	
	Pharmacy already processed Rx. Response not accepted	
	Pharmacy: telephone number is invalid	
	Prescriber: telephone number is invalid	
	Prescription no longer active	
	• PSUD	
	Request has been canceled prior to response. Response not processed.	
	Response does not match the request sent	
	The system does not accept EPCS RxChange Response messages	
	Unable to associate Response to Request	
	UNABLE TO DELETE FROM PENDING	

Use Case 5 – EHR users generate QRDA files that comply with the latest specifications for submission to CMS and other quality reporting needs.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (c)(1) CQMs –	Qvera Interface Engine	(i) Record
record and export		(ii) Export
§ 170.315 (c)(2) CQMs –	N/A	(i) Import
import and calculate		(ii) Calculate each and every clinical quality measure
§ 170.315 (c)(3) – report	N/A	Enable a user to electronically create a data file for transmission

**Measure 1: eCQM calculation success rates** – This measure will validate the correct calculation of implemented eCQMs relative to measure specifications.

- <u>Justification</u>: Using live customer data to validate the accurate calculation of eCQMs is difficult due to the variability of data inputs. A better approach is to have a controlled production-grade environment with known eCQM data inputs that can be regularly run to evaluate the accurate calculation of the eCQMs over time.
- <u>Test Methodology:</u> A comprehensive test tool previously developed by the EHR vendor for the same purpose will be leveraged to assure the accurate calculation of eCQMs. We will leverage the end-to-end testing framework for eCQMs using production test cases for each scenario (namely IPP, Denominator, Numerator, Exclusions and Exceptions) and the various workflows which satisfy in EHR.
- Expected Outcomes: Test cases pass with expected errors (e.g., due to known specification gap, etc.)

<u>Measure 2: QRDA file export conformance</u> – This measure will validate successful user generation of QRDA I and QRDA III files using athenaFlow.

- <u>Justification</u>: Evidence of QRDA I and III files generated by athenaFlow spanning multiple organizations will validate successful use in the real world.
- <u>Test Methodology</u>: System logs will be evaluated to determine the count of practices that have created at least one QRDA I/III file.
- <u>Expected Outcomes:</u> Success is defined as evidence of QRDA I/III file generation by users.

<u>Measure 3: QRDA file import conformance</u> – This measure will assess the use of the athena Flow QRDA I import feature using a QRDA I file created in a different EHR.

- <u>Justification</u>: The ability for athenaFlow to successfully import a QRDA I file generated by a different EHR that is also certified to the CQM criteria will demonstrate the real-world utility of the QRDA I import feature.
- <u>Test Methodology:</u> System logs will be evaluated to determine the count of practices that have imported at least one QRDA I file.
- Expected Outcomes: Success is defined as evidence of QRDA I file import by users.

# Use Case 5 Outcomes

No changes from plan.

Measure	Outcomes	Challenges
1: eCQM calculation	100% of 65 manual tests returned successfully.	N/A
success rates		
2: QRDA file export	Two practices exported a QRDA I/III at least one time in 2024.	N/A
conformance		
3: QRDA file import	Due to lack of production data representing the use of this feature, an	None of the
conformance	internal validation of the feature was successfully executed in a test	athenaFlow
	environment with test data, yielding a 100% success rate.	customers used
		this feature at the
		time of RWT data
		collection.

Use Case 6 – Data is appropriately triggered and submitted to relevant public health agencies.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (f)(1) Transmission to	Qvera Interface Engine	(i) Create immunization information for
immunization registries		electronic transmission
		(ii) Enable a user to request, access, and
		display
§ 170.315 (f)(2) Transmission to public	Qvera Interface Engine	Create syndrome-based public health
health agencies – syndromic		surveillance information
surveillance		
§ 170.315 (f)(5) Transmission to public	Qvera Interface Engine	Create electronic case reporting for
health agencies – electronic case		reportable conditions
reporting		

**Measure 1: Immunization message success** – This measure will evaluate the ability for athenaFlow to submit conformant immunization messages.

- <u>Justification</u>: The evaluation of a statistically significant number of immunization messages spanning multiple organizations using athenaFlow will demonstrate the real-world utility of the capability.
- <u>Test Methodology:</u> System logs will be evaluated for different message types including administered, historical and forecast query.
- <u>Expected Outcomes</u>: Success is defined as (with expected errors including no response from registry, formatting error beyond the scope of CEHRT specification requirements, etc.):
  - Administered vaccines successfully sent to immunization registry.
  - Historical vaccines recorded are successfully sent to immunizations registry.
  - Forecast query requests successfully sent with historical immunizations and forecast returned.

**Measure 2: Syndromic surveillance message success** – This measure will evaluate the ability for athenaFlow to submit conformant syndromic surveillance messages in the urgent care setting.

- <u>Justification</u>: The evaluation of a statistically significant number of syndromic surveillance messages spanning multiple organizations using athenaFlow will demonstrate the real-world utility of the capability. Although these messages apply to urgent care, emergency department and inpatient settings, athenaFlow only serves the urgent care setting.
- <u>Test Methodology:</u> System logs will be evaluated for all applicable messages sent to registries.
- <u>Expected Outcomes</u>: Success is defined as the successful message submission to and receipt by all actively engaged registries, with expected errors (e.g., no response from registry, formatting error beyond scope of CEHRT specification requirement, etc.)

<u>Measure 3: Electronic case reporting success</u> - This measure will evaluate the ability for athenaFlow to send Case Reporting electronically to public health agencies through the AIMS Platform.

- <u>Justification</u>: athenaFlow supports Electronic Case Reporting using the eCR Now application. The evaluation of documents generated and submitted to public health agencies from the eCR Now application will demonstrate the real-world utility of the capability.
- <u>Test Methodology:</u> System logs will be evaluated to determine 1) the count of encounters that generate Electronic Initial Case Report (eICR) documents and 2) the number of eICR documents for which a Reportability Response is received from the public health agency.

• <u>Expected Outcomes:</u> 1) eICR documents are successfully generated for reportable conditions and 2) successfully received by public health agencies via AIMS platform as acknowledged by Reportability Responses.

# Use Case 6 Outcomes

No changes from plan.

Measure	Outcomes	Challenges
1: Immunization	Review of audit logs of two athenaFlow customers during a	Data was only available for two
message success	period of 07/24/24 – 08/08/24 yielded validation of 503	athenaFlow customers during RWT
	successful historical messages, 800 successful	data collection
	administered immunizations messages and zero total	
	forecast and history messages.	
2: Syndromic	Due to lack of production data representing the use of this	No athenaFlow customers have a live
surveillance	feature, a successful internal validation of the feature was	interface with Syndromic Surveillance
message success	executed in a test environment with test data, yielding a	at the time of RWT data collection.
	100% success rate.	
3:	Due to lack of production data representing the use of this	No athenaFlow customers have a live
Electronic case	feature, a successful internal validation of the feature was	interface with electronic case reporting
reporting	executed in a test environment with test data, yielding a	at the time of RWT data collection.
	100% success rate.	

Use Case 7 – Independent vendors, as well as athenahealth customers use certified APIs for both patient and provider-oriented use cases.

Certification Criteria	Relied Upon Software	Requirement
§ 170.315 (g)(7)	N/A	(i) Functional requirement
Application access –		
patient selection		
§ 170.315 (g)(9)	N/A	(i) Functional requirements
Application access – all		
data request		
§170.315(g)(10)	Qvera Interface Engine	(i) Functional requirements
Standardized API for		
Patient and Population		
Services		

**Measure 1: Request success rate for certified APIs** – This measure will evaluate the successful use of all certified APIs under (g)(7), (g)(9) and (g)(10) certification criteria (<u>https://mydata.athenahealth.com/fhirapidoc</u>) through the lens of individual transaction requests by request, API Information Source and API Users.

- Justification: The evaluation of a statistically significant sample size of API requests in production systems spanning a broad spectrum of API Information Sources demonstrates real-world request volume from external applications. Tracking success and failure rates of our API responses by HTTP response status codes further validates the results of the APIs against real-world use cases. The measures also demonstrate the ability to provide sufficient supporting API documentation to enable external API developers to integrate with athenaFlow.
- <u>Test Methodology</u>: Production system logs of external API usage will be reviewed to determine the success rates for the following:
  - o (g)(7, 9) API Requests Served (excluding bulk calls)
    - Numerator: # of successful responses
    - Denominator: Total requests of certified API(s)
  - (g)(10) API Requests Served (including bulk calls)
    - Numerator: # of successful responses
    - Denominator: Total requests of certified API(s)
  - o (g)(7, 9, 10) Bulk tokens Requests Served
    - Numerator: # of successful responses
    - Denominator: Total token requests
  - o (g)(7, 9, 10) Non-Bulk token Requests Served
    - Numerator: # of successful responses
    - Denominator: Total token requests
  - (g)(7, 9, 10) API Information Sources with at least one successful response Validates successful API use spanning current API Information Sources
    - Numerator: Total API Information Sources with at least one successful response
    - Denominator: Total API Information Sources with at least one request
  - (g)(7, 9, 10) API Users with at least one successful response Validates successful API use spanning current API Users
    - Numerator: Total API Users with at least one successful response
    - Denominator: Total API Users with at least one request
- **Expected Outcomes:** We expect to see performance of >99% on the above measures.

# Use Case 7 Outcomes

#### No changes from plan.

Measure	Outcomes	Challenges
1: Request success rate	Review of audit logs of five athenaFlow customers during a period of	N/A
for certified APIs	05/1/2024 to 06/31/2024 yielded validation of the following results:	
	• API Requests Served (excluding bulk calls): 97.00% success	
	• API Requests Served (including bulk calls): 97.00% success	
	Bulk tokens Requests Served: 0	
	Non-Bulk token Requests Served: 97.00% success	
	API Information Sources: 100% success	
	API Users: 98.15% success	

#### Schedule of key milestones

Key Milestones	Date/Timeframe
Recruitment of organizations that will participate in de-identified data	Q2 2024
collection	
Start of collection of necessary data as laid out by plan (will vary by measure)	January 2024
End of collection of necessary data as laid out by plan (will vary by measure)	January 2025
Analysis of data (will vary by measure)	On-going 2024
Submit Real World Testing report to ACB	February 2025

#### Attestation

This Real World Testing plan is complete with all required elements, including measures that address all certification criteria and care settings. All information in this plan is up to date and fully addresses the health IT developer's Real World Testing requirements.

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Date: 1/29/2025