

athenaPractice 2025 Real World Test Plan (v23)

Contents

General Information	2
Justification for Real World Testing approach	2
Standards Updates (SVAP and USCDI)	3
Care Setting(s)	3
Overall Expected Outcomes	3
Measure Used	1
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	1
Use Case 2 – During the course of ambulatory care, patients access a copy of their record (CCDs) for viewing, downloading and/or transmitting	5
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.	ŝ
Use Case 4 – Clinicians electronically prescribe medications.	õ
Use Case 5 – EHR users generate QRDA files that comply with the latest specifications for submission to CMS and other quality reporting needs.	7
Use Case 6 – Data is appropriately triggered and submitted to relevant public health agencies.	7
Use Case 7 – Independent vendors, as well as athenahealth customers use certified APIs for both patient and provider-oriented use cases	
Schedule of key milestones10)
Attestation)



General Information

Plan Report ID Number: [For ONC-Authorized Certification Body use only]

Developer Name: athenahealth, Inc Product Name(s): athenaPractice

Version Number(s): v23

Certified Health IT: ONC Certification for Health IT

Product List (CHPL) ID(s): 15.04.04.2880.prac.23.05.1.230403

Developer Real World Testing Page URL: https://www.athenahealth.com/onc-certified-health-it

Justification for Real World Testing approach

At this time, athenaPractice 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) Transition 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 3rd 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 ONC Certification for Health
	IT except for:
	§170.315(c)(3) – CQMs – Report
	CMS Implementation Guide for Quality Reporting Document
	Architecture Category III Eligible Clinicians Programs; Implementation
	Guide for 2024
Date of ONC-ACB notification	January 2025 (next quarterly attestation)
(SVAP or USCDI)	
Date of customer notification	July 25, 2024
(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	Requirement
§ 170.315 (b)(1) Transition of	(i) Send and receive via edge protocol
care	(ii) Validate and display
	(iii) Create
§ 170.315 (b)(2) Clinical	(i) General requirements
information reconciliation and	(iii) Reconciliation
incorporation	
§ 170.315 (b)(9) Care plan	Enable a user to record, change, access, create, and receive care plan
	information in accordance with the Care Plan document template
§ 170.315 (g)(6) Consolidated	(i) Reference C-CDA match
CDA creation performance	(ii) Document-template conformance
	(iii) Vocabulary conformance
	(iv) Completeness verification
§ 170.315 (h)(1) Direct project	(i) Applicability Statement for Secure Health Transport
	(ii) Delivery Notification in Direct

For each measure below, test will ensure use of relevant relied upon software including:

- Medical Office Technologies ezAccess Patient Portal
- Medical Office Technologies ezAccess Direct Messaging
- Qvera Interface Engine
- MedAllies HISP

<u>Measure 1: Create and send a CCDA:</u> This measure will evaluate the creation and sending CCDAs at scale across many providers using athenaPractice in a live production environment.

- <u>Justification:</u> A statistically significant sample size of CCDAs generated and sent by athenaPractice 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.
- Expected Outcomes: 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 CCDAs in a live production environment.

- <u>Justification:</u> An evaluation of a statistically significant number of CCDAs received by providers using athenaPractice spanning multiple organizations will validate successful use in the real world.
- <u>Test Methodology:</u> System logs will be evaluated to identify CCDAs that were successfully received.
- Expected Outcomes: Success is defined as CCDAs successfully received via Direct.



<u>Measure 3: Receive and reconcile a CCDA</u> – This measure will demonstrate EHR ability to receive and reconcile CCDAs 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 2 – During the course of ambulatory care, patients access a copy of their record (CCDs) for viewing, downloading and/or transmitting.

Certification Criteria	Requirement
§ 170.315 (e)(1) View,	(i) (A) View
download, and transmit to 3 rd	(i)(B) Download
party	(i)(C) Transmit to third party
§ 170.315 (h)(1) Direct project	(i) Applicability Statement for Secure Health Transport
	(ii) Delivery Notification in Direct

For each measure below, test will ensure use of relevant relied upon software including:

- Medical Office Technologies ezAccess Patient Portal
- Medical Office Technologies ezAccess Direct Messaging

<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.
- Expected Outcomes: 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.
- Expected Outcomes: Success is defined by the number of successfully downloaded 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 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	Requirement
§ 170.315 (b)(10) Electronic health	(i) General requirements for export summary configuration
information export	(ii) Creation
	(iii) Timeframe configuration
	(iv) Location configuration

For each measure below, test will ensure use of relevant relied upon software including:

• Qvera Interface Engine

<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 athenaPractice 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.
- Expected Outcomes: 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 4 – Clinicians electronically prescribe medications.

Certification Criteria	Requirement
§ 170.315 (b)(3) Electronic	(i)(A) Enable a user to perform the following prescription-related electronic
prescribing	transactions
	(i)(C) For the following transactions, the technology must be able to receive
	and transmit the reason for the prescription

For each measure below, test will ensure use of relevant relied upon software including:

Dr First Rcopia

<u>Measure 1: Transaction success rates</u> – This measure will evaluate successful use of required eRx transaction types in a production environment.

- <u>Justification:</u> A statistically significant sample size of electronic prescriptions spanning multiple organizations using athenaPractice will demonstrate the real-world utility of the feature
- <u>Test Methodology:</u> 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 achieving the following transaction success rates. Data validation errors are prevented, or end user is notified of errors when appropriate:
 - o NewRx 99%
 - RxChange 90%



- o CancelRx 98%
- o RxRenewal 97%
- o RxFill 100%
- Medication History 99%

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	Requirement
§ 170.315 (c)(1) CQMs – record	(i) Record
and export	(ii) Export
§ 170.315 (c)(2) CQMs – import	(i) Import
and calculate	(ii) Calculate each and every clinical quality measure
§ 170.315 (c)(3) – report	Enable a user to electronically create a data file for transmission

<u>Measure 1: eCQM calculation success rates</u> – 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> . 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 athenaPractice.

- <u>Justification:</u> Evidence of QRDA I and III files generated by athenaPractice 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.
- Expected Outcomes: 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 athenaPractice QRDA I import feature using a QRDA I file created in a different EHR.

- <u>Justification:</u> The ability for athenaPractice 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.
- <u>Expected Outcomes:</u> Success is defined as evidence of QRDA I file import by users.

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

Certification Criteria Requirement



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

For each measure below, test will ensure use of relevant relied upon software including:

Qvera Interface Engine

<u>Measure 1: Immunization message success</u> – This measure will evaluate the ability for athenaPractice to submit conformant immunization messages.

- <u>Justification:</u> The evaluation of a statistically significant number of immunization messages spanning multiple organizations using athenaPractice 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.
- Expected Outcomes: Success is defined as (with expected errors including no response from registry, formatting error beyond the scope of CEHRT specification requirements, etc.):
 - o Administered vaccines successfully sent to immunization registry.
 - Historical vaccines recorded are successfully sent to immunizations registry.
 - o Forecast guery requests successfully sent with historical immunizations and forecast returned.

<u>Measure 2: Syndromic surveillance message success</u> – This measure will evaluate the ability for athenaPractice 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 athenaPractice will demonstrate the real-world utility of the capability. Although these messages apply to urgent care, emergency department and inpatient settings, athenaPractice only serves the urgent care setting.
- <u>Test Methodology:</u> System logs will be evaluated for all applicable messages sent to registries.
- Expected Outcomes: 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 athena Practice to send Case Reporting electronically to public health agencies through the AIMS Platform.

- <u>Justification:</u> athenaPractice 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.
- Expected Outcomes: 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 7 – Independent vendors, as well as athenahealth customers use certified APIs for both patient and provider-oriented use cases.

Certification Criteria	Requirement
§ 170.315 (g)(7) Application access –	(i) Functional requirement
patient selection	
§ 170.315 (g)(9) Application access –	(i) Functional requirements
all data request	
§170.315(g)(10) Standardized API for	(i) Functional requirements
Patient and Population Services	

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

- <u>Justification</u>: 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 athenaPractice.
- <u>Test Methodology:</u> Production system logs of external API usage will be reviewed to determine the success rates for the following:
 - - Numerator: # of successful responses
 - Denominator: Total requests of certified API(s)
 - o (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
 - o (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.



Schedule of key milestones

Key Milestones	Date/Timeframe
Recruitment of organizations that will participate in de-identified data	Q2 2025
collection	
Start of collection of necessary data as laid out by plan (will vary by measure)	January 2025
End of collection of necessary data as laid out by plan (will vary by measure)	January 2026
Analysis of data (will vary by measure)	On-going 2025
Submit Real World Testing report to ACB	February 2026

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: 10/31/2024