

athenaPractice v20 & v22 2023 Real World Test Results

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General Information

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

Developer Name: athenahealth, Inc

Product Name(s): athenaPractice

Version Number(s): v20 (Withdrawn) ; v22 (Withdrawn) ; v23

Certified Health IT: 2015 Edition Cures Update

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

Withdrawn Product List (CHPL) ID(s): 15.04.04.2902.Cent.20.03.1.200907 ; 15.04.04.2880.prac.22.04.1.220621

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

Justification for Real World Testing approach

At this time, athenaPractice v22 is a Certified electronic health record (EHR) that is 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)(6) – Data Export
- §170.315(b)(9) – Care Plan
- §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(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 2015 Edition 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 2022
Date of ONC-ACB notification (SVAP or USCDI)	January 2023 (next quarterly attestation)
Date of customer notification (SVAP only)	July 2021
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 care	(i) Send and receive via edge protocol...
	(ii) Validate and display...
	(iii) Create...
§ 170.315 (b)(2) Clinical information reconciliation and incorporation	(i) General requirements...
	(iii) Reconciliation...
§ 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 CDA creation performance	(i) Reference C-CDA match..
	(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:

- Surescripts Patient Portal
- Surescripts Secure Messaging
- MedAllies HISP
- Surescripts Clinical Direct Messaging HISP
- Qvera Interface Engine

Measure 1: Create a valid CCDA – This measure will demonstrate EHR ability to create and send a CCDA that is conformant to the standards outlined in § 170.315 (b)(1) Transition of care and § 170.315 (g)(6) Consolidated CDA creation performance.

- **Justification:** Other EHRs will expect to successfully receive a CCDA formatted to Release 2.1 with all required data elements from athenaPractice.
- **Test Methodology:** A CCDA of each type (Referral Note, CCD, Care Plan) will be created in athenaPractice and sent to another EHR via each certified workflow (if applicable). athenaPractice and the other EHR will be using a production-grade environment configured in a way typical of the marketed care settings. System logs will be reviewed to identify possible errors in transport. A user in the receiving EHR will demonstrate successful display of all required elements.
- **Expected Outcomes:** Success is when a different EHR receives and recognizes each type of CCDA as conformant.

Measure 2: Create and send a CCDA: This measure will evaluate the creation and sending of required CCDAs (Referral Note, CCD) at scale across many providers using athenaPractice in a live production environment.

- **Justification:** 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.
- **Test Methodology:** 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.)

Measure 3: Receive and display a CCDA – 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.

- **Justification:** Two sub-measures will be evaluated: 1) A manual evaluation of several examples of each required type of CCDA (Referral Note, CCD and Care Plan) will show that athenaPractice can successfully receive and display CCDAs. 2) 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.
- **Test Methodology:** 1) Examples of CCDAs of each type will be randomly selected for manual review spanning various care settings in the athenaPractice network. 2) System logs will be evaluated to identify CCDAs that were successfully received.
- **Expected Outcomes:** Success is defined as:
 - 1) Chosen examples are successfully received and displayed.
 - 2) CCDAs successfully received via Direct.

Measure 4: Receive and reconcile a CCDA – This measure will demonstrate EHR ability to receive and reconcile required CCDAs (Referral Note, CCD) in a live production environment.

- **Justification:** An evaluation of reconciliation use spanning a statistically significant number of active users spanning multiple organizations will validate successful use in the real world.
- **Test Methodology:** 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

Changes from plan: In some cases, data was unavailable to break out measures by the CCDA document type. We will evaluate possible enhancements for future test plans.

Measure	Relied Upon Software	Outcomes	Challenges
1: Create a valid CCDA	N/A	Test samples of a CCD, Care Plan and Referral Note were successfully sent via Direct from athenaPractice and received by the athenaClinicals EHR. Receipt and conformance to standards was verified by displaying the documents in athenaClinicals.	N/A

2: Create and send a CCDA	-MedAllies HISP -Qvera Interface Engine -Surescripts Clinical Direct Messaging HISP -Surescripts	Review of audit logs of Direct transactions via the following HISP's yielding these results: <ul style="list-style-type: none"> • ezAccess (via Surescripts): 310 total messages and 67 failures for 12 customers during the period of 8/1/23 to 10/31/23. • MedAllies: 15,686 total messages and 7,152 failures across six customers during the period of 8/1/23- 10/31/23. Most failures are due to users attempting to send to an invalid Direct address. 	- Unable to break data out by CCDA document type - Missing detailed failure reasons for Surescripts
3: Receive and display a CCDA	Secure Messaging -Surescripts Patient Portal	<p>Sub-measure 1: An example Referral Note, Care Plan and CCD sent from the athenaClinicals EHR was successfully received and displayed in athenaPractice.</p> <p>Sub-measure 2: Review of audit logs of Direct transactions via the following HISP's yielded these results:</p> <ul style="list-style-type: none"> • ezAccess (via Surescripts): 5,497 total messages received for 12 customers during the period of 8/1/23 to 10/31/23. • MedAllies: 74,592 total messages and 11,137 failures across 27 customers during a period of 8/1/23- 10/31/23. Most failures are due to firewall, Direct certificate, or non-response at receiver API. 	- Unable to break data out by CCDA document type - Missing detailed failure reasons for Surescripts
4: Receive and reconcile a CCDA		Review of audit logs for 1/16/23 – 09/14/23 for 53 customers yielded validation that 1566 unique providers reconciled at least one item from a CCDA.	N/A

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, download, and transmit to 3 rd party	(i) (A) View...
	(i)(B) Download...
	(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:

- Surescripts Patient Portal



- Surescripts Secure Messaging
- Surescripts Clinical Direct Messaging HISP

Measure 1: Validate user behavior around view actions – 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).
- Test Methodology: 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.

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

- Justification: 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.
- Test Methodology: 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 download CCD documents.

Measure 3: Validate user behavior around transmit actions – 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.

- Justification: 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
- Test Methodology: 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.)
 - CCD documents successfully sent via email with expected errors (e.g. invalid email address, etc.)

Use Case 2 Outcomes

Changes from plan: The Surescripts portal and related relied upon software was officially sunset in 2023. CHPL will be updated to reflect the new 170.315(e)(1) certified portal with ezAccess in early 2024, with the existing RUS removed. As a result of this, the data below is exclusively from the ezAccess product as that is currently the most used patient portal by athenaFlow customers.

Measure	Relied Upon Software	Outcomes	Challenges
1: Validate user behavior around view actions	-Surescripts Clinical Direct Messaging HISP	Review of audit logs of patient views via the ezAccess Portal yielded 75,425 views for twelve customers during period of 8/1/23 to 10/31/23.	N/A

2: Validate user behavior around download actions	-Surescripts Patient Portal -Surescripts Secure Messaging	Review of audit logs of patient downloads via the ezAccess Portal yielded 1190 downloads for twelve customers during a period of 8/1/23 to 10/31/23.	N/A
3: Validate user behavior around transmit actions		Review of audit logs of patient transmits via the ezAccess portal yielded the following results: <ul style="list-style-type: none"> • Email: 546 transmits for 12 customers during a period of 8/1/23 to 10/31/23. • Direct: 39 transmits for 12 customers during a period of 8/1/23 to 10/31/23. 	N/A

Use Case 3 – EHR users export CCDAs for one or many patients for the purpose of sharing with providers, patients or other third-parties under the purview of HIPAA.

Certification Criteria	Requirement
§ 170.315 (b)(6) Data export	(i) General requirements for export summary configuration...
	(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

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

- Justification: 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.
- Test Methodology: System logs will be reviewed to determine the volume of exports generated by authorized users.
- Expected Outcomes: Only authorized users will be able to successfully create export summaries and there will be evidence of successful exports.

Use Case 3 Outcomes

No changes from plan.

Measure	Relied Upon Software	Outcomes	Challenges

1: Single/Multi patient export	N/A	535 total CCDs exported for a single patient with zero failures, and zero multi patient CCDs exported for four customers during the period of 08/01/2023 to 08/31/2023.	-All reviewed athenaPractice customers have not enabled the multi patient CCD export.
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Use Case 4 – Clinicians electronically prescribe medications.

Certification Criteria	Requirement
§ 170.315 (b)(3) Electronic prescribing	(i)(A) Enable a user to perform the following prescription-related electronic 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

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 athenaPractice 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 achieving 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 – 99%
 - Medication History – 99%

Use Case 4 Outcomes

No changes from plan.

Measure	Relied Upon Software	Outcomes	Challenges
1: Transaction success rates	-Dr. First Rcopia	Review of audit logs of all athenaPractice customers yielded the following results:	N/A

		<ul style="list-style-type: none"> • Range: 4/1/23 – 8/31/23 <ul style="list-style-type: none"> ○ NewRx: 99.45% success rate ○ CancelRx: 98.77% success rate ○ RxRenewal: 97.38% success rate ○ Medication History: 99.99% success rate ○ RxFill: 100% success rate • Range: 07/23/23 - 08/31/23 <ul style="list-style-type: none"> ○ RxChange: 95.63% success rate <p>Notes on analysis:</p> <ul style="list-style-type: none"> • Prescriber responses to a RxChange request from the pharmacy with a response of “prescription no longer active,” “prescription cancelled,” or where RxChange transaction is not supported are considered numerator Compliant. 	
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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 and export	(i) Record...
	(ii) Export...
§ 170.315 (c)(2) CQMs – import and calculate	(i) Import...
	(ii) Calculate each and every clinical quality measure...
§ 170.315 (c)(3) – report	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.

- **Justification:** 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.
- **Test Methodology:** 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.)

Measure 2: QRDA file export conformance – This measure will validate successful user generation of QRDA I and QRDA III files using athenaPractice.

- **Justification:** Evidence of QRDA I and III files generated by athenaPractice spanning multiple organizations will validate successful use in the real world.
- **Test Methodology:** 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.

Measure 3: QRDA file import conformance – This measure will assess the use of the athenaPractice QRDA I import feature using a QRDA I file created in a different EHR.

- **Justification:** 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.
- **Test Methodology:** A QRDA I file will be generated in a different EHR using synthetic test data and then imported into athenaPractice. Manual review of system logs and eCQM reports will validate the successful import and calculation of eCQMs based on imported data.
- **Expected Outcomes:** Files import, with any import errors (file or formatting related) flagged to users, and imported data is used to calculate eCQMs results correctly.

Use Case 5 Outcomes

No changes from plan.

Measure	Relied Upon Software	Outcomes	Challenges
1: eCQM calculation success rates	N/A	100% of 516 automated tests returned successfully.	N/A
2: QRDA file export conformance	N/A	19 unique practices exported a QRDA I/III at least one time in 2023.	N/A
3: QRDA file import conformance	N/A	QRDA 1 file was successfully exported from athenaClinicals and then successfully imported into the athenaPractice “Clinical Quality Reporting” tool. The number of patient files, as well as counts of initial population, exclusions, exceptions, denominator, etc. were all as expected.	N/A

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

Certification Criteria	Requirement
§ 170.315 (f)(1) Transmission to immunization registries	(i) Create immunization information for electronic transmission...
	(ii) Enable a user to request, access, and display...
§ 170.315 (f)(2) Transmission to public health agencies – syndromic surveillance	Create syndrome-based public health surveillance information...

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

- Qvera Interface Engine

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

- **Justification:** The evaluation of a statistically significant number of immunization messages spanning multiple organizations using athenaPractice will demonstrate the real world utility of the capability.
- **Test Methodology:** 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.):
 - 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 athenaPractice to submit conformant syndromic surveillance messages in the urgent care setting.

- **Justification:** 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.
- **Test Methodology:** 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.)

Use Case 6 Outcomes

No changes from plan.

Measure	Relied Upon Software	Outcomes	Challenges
1: Immunization message success	-Qvera Interface Engine	Review of audit logs for Eight athenaPractice customers during a period of 9/1/23 – 9/19/23 yielded validation of 1106 successful historical messages, 549 successful administered immunizations messages and 4261 successful forecast and history messages.	N/A
2: Syndromic surveillance message success		No customers have a live interface.	-No customers have a live interface

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

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

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

- Qvera Interface Engine

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 (<https://mydata.athenahealth.com/fhirapidoc>) 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 athenaPractice.
- Test Methodology: Production system logs of external API usage will be reviewed to determine the success rates for the following:
 - (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)
 - (g)(7, 9, 10) - Bulk tokens Requests Served
 - Numerator: # of successful responses
 - Denominator: Total token requests
 - (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	Relied Upon Software	Outcomes	Challenges
1: Request success rate for certified APIs	N/A	Review of audit logs of 29 athenaPractice customers during a period of 8/1/2023 to 10/31/2023 yielded validation of the following results: <ul style="list-style-type: none"> • API Requests Served (excluding bulk calls): 99.99% success • API Requests Served (including bulk calls): 99.99% success (bulk calls was zero) • Bulk tokens Requests Served: 0 • Non-Bulk token Requests Served: 99.91% success • API Information Sources: 100% success • API Users: 93.96% success 	N/A

Schedule of key milestones

Key Milestones	Date/Timeframe
Recruitment of organizations that will participate in de-identified data collection	Q2 2023
Start of collection of necessary data as laid out by plan (will vary by measure)	January 2023
End of collection of necessary data as laid out by plan (will vary by measure)	January 2024
Analysis of data (will vary by measure)	On-going 2023
Submit Real World Testing report to ACB	February 2024

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.

Authorized Representative Name: Chris Barnes

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Authorized Representative Phone: 617-402-1244

Authorized Representative Signature:

A handwritten signature in blue ink, appearing to be "C. Chen".

Date: 1/31/2024