StreamlineMD EHR Version 15.0 Real World Test Plan Year 2025

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Summary

StreamlineMD, LLC is a wholly owned subsidiary of PRC Medical, LLC. We are a technology-enabled business service company serving the healthcare industry. Specifically, we offer cloud-based clinical workflow and revenue cycle management technology and services tailored to meet the specific workflow and business needs of imaging and image-guided procedure specialists, to improve their practice and business performance and help them prosper.

This document is a real world test plan for year 2024 for StreamlineMD, LLC's certified EHR solution "StreamlineMD EHR".

As ONC has stated in its rule, "The objective of real-world testing is to verify the extent to which certified health IT deployed in operational production settings is demonstrating continued compliance to certification criteria and functioning with the intended use cases as part of the overall maintenance of a health IT's certification." We have worked toward this objective in designing our test plan and its subsequent real world testing measurements and metrics. This document builds toward the final testing measurements and metrics we will use to evaluate and examine our product's interoperability within the production setting.

We document testing methodology, associated ONC criteria, justification for measurement, expected outcomes from the testing, care settings applied for the respective measure, and if applicable the number of clients to use our real world testing approach.

Product Details

Company Name	StreamlineMD, LLC
Product Name	StreamlineMD EHR
Product Version	Version 15.0
Product Certification Number	15.04.04.2383.Stre.15.00.1.190417
Product Certification Date	April 17, 2019
Developer Real World Testing Page URL	https://streamlinemd.com/certified-ehr-software/
Criteria's included in RWT	170.315(b)(1) Transitions of Care 170.315(b)(2) Clinical information reconciliation and incorporation 170.315(b)(3) Electronic Prescriptions 170.315(b)(10) Electronic Health Information Export 170.315C(1)- C(3) Clinical Quality Measures 170.315(e)(1) View, download, and transmit to 3rd party 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

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Key Real World Testing Milestones

Notify customers about RWT	December 31, 2024
Initiate Real World Testing	January 1, 2025
Meet with customer to review any issues	January 15, 2025
Capture, Review and Analyze data	Quarterly
End RWT	January 1, 2026
Review Data and Analyze for year 2025	February 1, 2026
Submit Test Results to Drummond	March 15, 2026

Real World Testing Measurements

The measurements for our real-world testing plan include the below:

- Associated ONC criteria
- Testing Methodology used
- Description of the measurement/metric
- Justification for the measurement/metric
- Expected outcomes in testing for the measurement/metric
- Number of client sites to use in testing (if applicable)
- Care settings that are targeted with the measurement/metric

In each measurement, we explain our justification for choosing the measure and the expected outcomes. All measurements were chosen to best evaluate compliance with the certification criteria and interoperability within the certified StreamlineMD EHR.

Testing Method(s)/ Methodology(ies)

StreamlineMD EHR will use the following testing methodologies that fits best to evaluate the criteria(s):

Reports/Logs: This methodology uses the reports or logs capabilities of StreamlineMD EHR to examine functionality performed in the system. An example of this is the measure reporting done using automate measure calculation required in 315(g)(2). Additionally, it can also be aspects of the audit log or custom reports from the StreamlineMD EHR. This methodology provides ability to even produce historical measurement reports which can be accessed at different times of the year to examine interoperability of StreamlineMD EHR functionality.

Survey: This methodology evaluates interoperability and compliance of EHR Module capabilities through feedback from users. This methodology can provide insight into how our customers use a feature which reveals actual value and impact of interoperability.

Care Settings

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings.

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Number of Customers

We specify the minimum number of customers we plan to use for each measure. The numbers vary depending on the methodology as well as overall use of the associated EHR Module criteria by our users. For criteria that are not currently widely used by our customers, we may test the respective measure in our own production-sandbox environment given lack of customer experience with the criteria functionality.

Standards Voluntary Advancement Process (SVAP)

StreamlineMD EHR do not plan to make any version updates on approved standards through the SVAP process.

Standard (and version)	N/A
Updated certification criteria and associated product	N/A
Health IT Module CHPL ID	N/A
Method used for standard update	N/A
Date of ONC-ACB notification	N/A
Date of customer notification (SVAP only)	N/A
Conformance measure	N/A
USCDI-updated certification criteria (and USCDI version)	N/A

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RWT Measure #1: Transition of Care

Associated Criteria(s): 170.315(b)(1) Transitions of care, 170.315(h)(1) Direct Project

Care Setting(s) and number of customers

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of three customers in RWT.

Testing Method(s)/ Methodology(ies)

- Report/Log testing method will be used for this criterion. We will use 315.g(2) for this criteria.

Description

- The providers of StreamlineMD EHR should be able to create a C-CDA for each transition of care. The provider shall be able to create and send the C-CDA using direct email address of the referring provider(s).
- For any Transition of care for the patient, the provider will be able to create a C-CDA Release 2.1 and send it to outside provider/user using the direct protocol.
- StreamlineMD EHR uses Updox as their partner for direct protocol transmission.
- During testing StreamlineMD will measure the number of Transition Care patient seen by the providers and number of C-CDA's created and transmitted to Updox using Direct Edge Protocol

Expected Outcomes

StreamlineMD EHR will review and analyze the data for the following:

1. C-CDA creation should not give any errors
2. C-CDA Release 2.1 to include reason for referral, and the referring or transitioning provider's name and office contact information
3. Validate that the C-CDA's are as per the current USCDI standards

Associated Measurement/Metric

StreamlineMD will measure the following:

- Total number of C-CDA's sent on a quarterly basis. We will use 315.g(2) report for this measurement

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Justification for Approach

170.315(b)(1) Transition of Care enables our Providers to create C-CDA from StreamlineMD EHR and send it to the referring provider. This criteria helps our provider use interoperability very effectively which saves them tremendous amount of time. Instead of creating a separate document and either faxing or manually mailing the document with visit summary, the providers can create electronic C-CDA and send it using Direct edge protocol in few clicks.

Standards

Standard (and version)	RXNorm SNOMED CT CPT-4 ICD10-CM ONC Implementation Guide for Direct Edge Protocols, Version 1.1, June 25, 2014 ONC Applicability Statement for Secure Health Transport, Version 1.2 August 2015 Birth sex must be coded in accordance with HL7 Version 3 Standard, Value Sets for AdministrativeGender and NullFlavor HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5) United States Core Data for Interoperability (USCDI)
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	USCDI Version 1.0

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RWT Measure # 2: Clinical Information Reconciliation

Associated Criteria(s): 170.315(b)(2) Clinical information reconciliation and incorporation

Care Setting(s)

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of three customers in RWT.

Testing Method(s)/ Methodology(ies)

- StreamlineMD EHR will use report/log methodology for this criteria. We will use 315. G(2) report for this criteria

Description

- The providers of StreamlineMD EHR should be able to receive a C-CDA from outside providers using Direct Edge Protocol using Updox.
- The provider shall be able to view the C-CDA that is received using StreamlineMD EHR.
- The provider shall be able to reconcile the information from the existing patient chart in StreamlineMD EHR, if the patient exists in StreamlineMD EHR
- If the patient does not exist in StreamlineMD EHR, then a new Patient will be created based on C-CDA and Problem List, Medications and Allergies will be imported in StreamlineMD EHR

Expected Outcomes

StreamlineMD EHR will review and analyze the data for the following:

1. Validate that the C-CDA's are as per the current USCDI standards
2. C-CDA view should not give any errors if the file is received in C-CDA 2.1 format
3. The provider shall be able to reconcile Problem List, Medication List and Allergy List for an existing patient in StreamlineMD EHR
4. The provider shall be able to create a new patient record and import Problem List, Medication List and Allergy list if the patient did not exist in StreamlineMD EHR

Associated Measurement/Metric

StreamlineMD will measure the following:

- Total number of Patients for whom Clinical Information Reconciliation was performed

Justification for Approach

Clinical Information Reconciliation (170.315(b)(2)) enables our Providers to use interoperability very effectively and helps them save time. This criteria helps the providers to create or update the patient's Problem List, Medication List and Allergy List without having to do it manually.

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Standards

Standard (and version)	RXNorm SNOMED CT CPT-4 ICD10-CM Birth sex must be coded in accordance with HL7 Version 3 Standard, Value Sets for AdministrativeGender and NullFlavor HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5) United States Core Data for Interoperability (USCDI)
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	USCDI Version 1.0

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RWT Measure # 3: Electronic Prescriptions

Associated Criteria(s): 170.315(b)(3) Electronic Prescriptions

Care Setting(s) and Number of Customers

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of three customers in RWT.

Testing Method(s)/ Methodology(ies)

- StreamlineMD EHR will use report/log methodology for this criteria. We will use 315. G(2) report for this criteria

Description

The providers of StreamlineMD EHR will send prescriptions electronically for their patient to the pharmacy. The prescription will be sent to Surescripts and Surescripts will send the prescription to the pharmacy.

Expected Outcomes

StreamlineMD EHR will review the data sent to Surescripts for the following:

1. Data are transmitted using the correct NCPDP standards
2. Data is encrypted during the transmission
3. Correct Vocabulary standards for RxNorm, SNOMED etc are used during the transmission
4. No errors are received during transmission
5. No errors are receiving in processing the transaction

Associated Measurement/Metric

StreamlineMD will measure the following:

- Number of New Prescription sent by Provider to Surescripts. We will use 315.G(2) report for this measurement.

Justification for Approach

Electronic prescribing (170.315(b)(3)) enables our Providers to send prescriptions electronically to the Pharmacy using Surescripts. Electronic Prescribing helps promote interoperability as it eliminates need for paper prescriptions and also the transmission is done using the latest SCRIPTS standards. The data for prescriptions are exchanged between StreamlineMD EHR, Surescripts and Pharmacy very seamlessly and it is very convenient for the patient as well. The electronic prescriptions allows the provider to receive the refill request and fill based on Patient's conditions.

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Standards

Standard (and version)	SCRIPT 2017071 RxNorm
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	N/A

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RWT Measure #4: Electronic Health Information Export

Associated Criteria(s): 170.315(b)(10) Electronic Health Information Export

Care Setting(s)

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of one customers in RWT.

Testing Method(s)/ Methodology(ies)

StreamlineMD will use self-testing in production environment

Description

The following two methods will be used for Real World Testing:

Use Case Scenario 1:

StreamlineMD EHR providers participating in HIE or Registry sets periodic data exports for patient seen in a certain timeframe. StreamlineMD EHR user shall be able to schedule a set frequency for exporting data in C-CDA format. StreamlineMD EHR users shall be able to set a schedule and export data without any help from StreamlineMD EHR helpdesk.

Use Case Scenario 2:

StreamlineMD EHR providers at times request the entire patient population data as C-CDA. The StreamlineMD EHR user shall be able to export entire patient population on demand without any help from StreamlineMD EHR helpdesk.

Expected Outcomes

StreamlineMD EHR will review and analyze the data for the following:

1. Validate that the data export function is accessible and available to be used by end users without any help from StreamlineMD
2. Validate that the data export function does not give any errors
3. Validate that data export function exports data in either on demand or on a set scheduled frequency
4. Validate that the C-CDA's generated are as per the current USCDI standards

Associated Measurement/Metric

StreamlineMD will measure the following:

- Number of C-CDA's generated using the Data Export function

Justification for Approach

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Electronic Health Information export (170.315(b)(10)) enables our Providers to export their patient information for their care settings independently. The data export function provides flexibility to the end users to participate in different HIE or Registries. This criteria helps promote interoperability very effectively and very useful for our providers.

Standards

Standard (and version)	RXNorm SNOMED CT CPT-4 ICD10-CM HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5) United States Core Data for Interoperability (USCDI)
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	USCDI Version 1.0

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RWT Measure #5: Clinical Quality Measures Reporting

Associated Criteria(s): 170.315C(1)- C(3) Clinical Quality Measures

Care Setting(s)

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of one customer in RWT.

Testing Method(s)/ Methodology(ies)

StreamlineMD EHR uses Report/ Log method for this criteria.

Descriptions

StreamlineMD EHR will export the QRDA for the selected measures by the customer and send it to our partner Mingle Analytics. Mingle Analytics handles the submission or our data to CMS

Expected Outcomes

StreamlineMD EHR will review and analyze the data for the following:

1. QRDA files are generated successfully out of the application for the selected filter criteria's
2. Validate that the C-CDA's generated are as per the current USCDI standards

Associated Measurement/Metric

StreamlineMD will measure the following:

- Number of QRDA files exported per criteria

Justification for Approach

Clinical Quality Measure (170.315(C)(1)- C(3)) enables our Providers to submit and report for eCQM. The providers can selected and export the eCQM for the measures in which they participate. Our customers will generate the eCQM and submit to our partner for further submitting to CMS.

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Standards

Standard (and version)	RXNorm SNOMED CT CPT-4 ICD10-CM HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5)
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	N/A

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RWT Measure #6: Patient Portal (View, Download, Transmit)

Associated Criteria(s): 170.315(e)(1) View, download, and transmit to 3rd party

Care Setting(s)

StreamlineMD's customers are small to medium practices in Ambulatory (Outpatient) settings. We plan to include a minimum of one customer in RWT.

Testing Method(s)/ Methodology(ies)

StreamlineMD EHR uses Report/ Log method for this criteria. We will use 315.g(2) report for this criteria

Description

The provider using StreamlineMD EHR will send a visit summary in C-CDA format to Patient Portal. The patient will receive an email with the portal instructions. The patient will create an account in patient portal for the initial time and will be able to access the visit summary in C-CDA format. The patient may view, download or transmit the visit summary in C-CDA format.

Expected Outcomes

StreamlineMD EHR will review and analyze the data for the following:

1. Provider shall be able to send visit summary in C-CDA format to Patient Portal
2. Patient shall be able to create a login or use existing login to access the visit summary sent by the provider
3. Patient shall be able to view, download or transmit the visit summary in C-CDA

Associated Measurement/Metric

StreamlineMD will measure the following:

- Number of visit summaries sent by Provider to patient (We will use 315.g(2) for this measurement)
- Number of visit summaries for which either view, download or transmit was used (We will use 315.g(2) for this measurement)

Justification for Approach

Electronic View, Download and Transmit (170.315(e)(1)) enables our Providers to send visit summary to patient upon completion of the visit. This criteria helps promote interoperability. The patient can easily access their patient visit summary and also send it to other care providers or anyone else who is participating in their care.

Standards

Standard (and version)	RXNorm SNOMED CT CPT-4 ICD10-CM

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	HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5) United States Core Data for Interoperability (USCDI) Web Content Accessibility Guidelines (WCAG) 2.0, Level A Conformance WCAG 2.0, Level AA Conformance
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	N/A
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	USCDI Version 1.0

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RWT Measure #7: API Access

Associated Criteria(s): 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

Care Setting(s)

StreamlineMD's customers are small to medium practice in ambulatory (outpatient) settings. We plan to include a minimum of one customer in RWT.

Testing Method(s)/ Methodology(ies)

We will survey our customers on the usage of this functionality.

Description

StreamlineMD EHR has made the FHIR API documentation available publicly for patients or third-party vendors. The patient or third party may use the application developed by StreamlineMD for real-world testing to query patients based on unique identifiers such as their first name, last name, middle name, Date of Birth, and Gender.

This is a survey measure to determine how many different systems or applications are connecting to your EHR via the API.

Expected Outcomes

StreamlineMD EHR will review the data for the following:

1. StreamlineMD FHIR API Documentation is available publicly
2. API to query a patient using a unique identifier
3. API to return data for the requested section
4. API to return data for the entire patient data

Associated Measurement/Metric

StreamlineMD will measure the following:

- A survey question to our customers on how many applications or vendors are connecting via API

Justification for Approach

170.315(g)(10) Standardized API for patient and population services enables the patient and third-party vendors (with the consent of the provider/ Clinic) to access patient data using FHIR. We will survey our customers to get an objective answer on how third-party vendors connect to the API.

Standards

Standard (and version)	RXNorm SNOMED CT

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	CPT-4 ICD10-CM Birth sex must be coded in accordance with HL7 Version 3 Standard, Value Sets for AdministrativeGender and NullFlavor HL7® Implementation Guide for CDA Release 2 Consolidation CDA Templates for Clinical Notes (US Realm), Draft Standard for Trial Use Release 2.1 C-CDA 2.1, August 2015, June 2019 (with Errata) HL7® CDA R2 IG: C-CDA Templates for Clinical Notes R2.1 Companion Guide, Release 2, October 2019, IBR approved for § 170.205(a)(5) United States Core Data for Interoperability (USCDI) HL7 FHIR US Core
Updated certification criteria and associated product	
Health IT Module CHPL ID	
Method used for standard update	
Date of ONC-ACB notification	
Date of customer notification (SVAP only)	12/31/22
Conformance measure	
USCDI-updated certification criteria (and USCDI version)	USCDI Version 1.0

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Attestation

The Real World Testing plan must include the following attestation signed by the health IT developer authorized representative.

Note: The plan must be approved by a health IT developer authorized representative capable of binding the health IT developer for execution of the plan and include the representative's contact information.[i]

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.

Date: 11/5/2024

Authorized Representative Name: SMITESH S. SHAH

Authorized Representative Email: sshah@streamlinemd.com

Authorized Representative Phone: 732.658.9062

Authorized Representative Signature: