GENERAL INFORMATION

Developer Name:	VersaSuite
Product Name(s):	VersaSuite
Version Number(s):	9
Certified Health IT Product List (CHPL) ID(s):	5.07.04.2503.Vers.09.01.1.200210
Developer Real World Testing Page URL:	http://versasuite.com/rwt

STANDARDS UPDATES

Standard (and version)	Not applicable
Updated certification criteria and associated product	Not applicable
Health IT Module CHPL ID	5.07.04.2503.Vers.09.01.1.200210
Method used for standard update	Not applicable
Date of ONC ACB notification	Not applicable
Date of customer notification (SVAP only)	Not applicable
Conformance measure	
USCDI updated certification criteria (and USCDI version)	Not applicable

JUSTIFICATION FOR REAL WORLD TESTING APPROACH

The focus of this test plan is on establishing baseline information about real world implementation of VersaSuite's certified capability. Many of our clients face economic, geographic, or demographic challenges that limit their ability to implement the full range of VersaSuite's capabilities. In instances where we are not able to demonstrate the implementation of certified capabilities, we will simulate them using realistic interactive scenarios.

The purpose of real world Testing is to augment, rather than reproduce the initial certification process. Some criteria may be reasonably inferred by the successful completion of others. These will be noted rather than explicitly tested.

OVERALL APPROACH

Quantitative assessment will include the review of audit logs, and integrated reporting tools.

VersaSuite maintains detailed audit logs that track user interaction as well as errors and the history of input and output data. The logs provided a comprehensive view of what capabilities are being utilized. For criteria that require aggregated data, VersaSuite's integrated report engine will be used to collect the necessary information.

Qualitative assessments will be completed for criteria that require validation against external standards. In these cases, rubrics will be created to determine rates of conformance.

Care Setting(s)

Care Settings	Justification
Inpatient Hospitals	New client expected to have relevant data during the data collection period.
Outpatient Clinics	Established clients with data relevant to outpatient criteria.

VersaSuite is distinct from many IT Health solutions in that it provides a comprehensive and unified platform for both inpatient and outpatient facilities. Our intent is to provide a consistent and coherent interface that seamlessly integrates the inpatient and outpatient user experience. As such, we will be applying all elements of our test plan to both settings.

Overall Expected Outcome(s)

This test plan is expected demonstrate that the capabilities certified during initial testing are viable tools in real world settings. It will also identify which certified capabilities that are underutilized by providers and suggest avenues for future development and client training initiatives.

MEASURES USED

Care Coordination Usage

This measure will track how many transition of care/referral summaries are sent and received during the testing window.

Associated Certification Criteria

170.315(b)(1) Transitions of care	(i) *Send and receive via edge protocol* (iii) *Create*

Justification for Selected Measurement/Metric

This measure will assess users' ability to create, send, and receive transition of care/referral summaries. It will also quantify the adoption of these capabilities and potentially identify capabilities that require validation through interactive simulations.

Test Methodology

Data will be collected from 2 active clients by auditing interaction during a 14 day test period. Logs will be reviewed to identify errors related to these activities.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can send and receive transition of care (ToC)/referral summaries, detect valid and invalid ToC/referral summaries upon receipt of C-CDA documents formatted to C-CDA Release 1.1 and 2.1.

Care Coordination Display Review

This measure will assess conformance and display of information specified in the C-CDA.

Associated Certification Criteria

170.315(b)(1) Transitions of care	*(ii) Validate and Display*

Justification for Selected Measurement/Metric

Conducting a visual inspection of real world data captured the C-CDA document will assess their accuracy and readability while potentially revealing discrepancies not captured by automated testing.

Test Methodology

Rendered C-CDA documents and their associated source files will be collected from active clients. This data will be reviewed for consistency and conformance to standards and the percentage of errors will be calculated.

Expected Outcomes

This measure will demonstrate that VersaSuite is able to create a C-CDA (formatted to Release 2.1) that includes the USCDI, Encounter diagnoses according to either ICD-10-CM or SNOMED CT® codes, Cognitive status, and Functional status, and certain data to assist with patient matching. It will also demonstrate that VersaSuite can display a human-readable C-CDA to a user and allows a user to choose to display only the data within a particular C-CDA section, set a preference for the section display order, and set the initial number of sections to be displayed.

Clinical information reconciliation audit

This measure will audit the reconciliation of patient Medication, Allergy, and Problem lists to assess their frequency, and rate of accuracy.

Associated Certification Criteria

§170.315(b)(2) Clinical information reconciliation and incorporation	*(i)General requirements.* *(ii)Correct patient.* *(iii)Reconciliation.* *(iv)System verification.*
§170.315(b)(6) Data Export	*(ii)Creation*

Justification for Selected Measurement/Metric

Information regarding a patient's Medications, Allergies, and Problems is typically reconciled as part of an admission, discharge, or transfer. These events and data associated with them are captured in the audit logs and integrated reports. This metric will provide information about the frequency of usage, and the type of errors that can occur during the process.

Test Methodology

Information regarding patients admitted, discharged, or transferred during a 14 day period will be reviewed for conformance to the associated standards. Audit logs will be reviewed to assess the rate of use and the number of times reconciliation occurs in the context of importing or exporting Continuity of Care Documents. Patient Allergy, Medication, and Problem lists will be visually inspected to assess completeness of entries.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite properly incorporates information from C-CDAs, properly matches received Transition of Care (ToC)/Referral Summaries to the correct patients. It will demonstrate that VersaSuite supports the review and validation, of a patient's medication list, allergies and intolerances list, and problem list. This measure will also demonstrate that VersaSuite is able to create C-CDA documents that include reconciled and incorporated data.

Data Export

This measure will track changes to configuration options when users create export summaries.

Associated Certification Criteria

§170.315(b)(6) Data Export	*(i) General requirements for export summary configuration.* *(iii) Timeframe configuration.* *(iv) Location configuration.*

Justification for Selected Measurement/Metric

Information regarding… is typically. These events and data associated with them are captured in the audit logs and integrated reports. This metric will provide information about the frequency of usage, and the type of errors that can occur during the process.

Test Methodology

Information from the audit log and audit trail will be reviewed to determine the number of summaries that are exported and the frequency of configuration changes that occur. Data will be collected for a 14 day period at one inpatient and one outpatient setting. If the logs do not provide examples of configuration changes, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite enables authorized users to set configuration options for data elements, date and time ranges, and locations when creating an export summary.

Review of Electronic prescribing

This measure will report the percentage electronic prescription messages that were successfully sent and received in order to create, change, cancel, and renew prescriptions.

Associated Certification Criteria

170.315(b)(3) Electronic prescribing

Justification for Selected Measurement/Metric

ePrescribing is typically associated with outpatient encounters or discharge from an inpatient facility. This metric will demonstrate the success rate of prescription messages. Checking both outbound and inbound messages, will confirm the functionality VersaSuite's integration with two *relied upon technologies*, SureScripts ePrescribing and the First Databank drug compendium.

Test Methodology

ePrescription Message logs from VersaSuite and SureScripts will be used to tally the number of error messages generated for one inpatient facility and one outpatient facility over a 14 day period. The percentage of successful messages will be calculated in relation to the total messages sent. Error messages will also be analyzed to identify errors caused by integration with either SureScripts or First Databank, the relied upon technologies used to meet these criteria.

If message logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite enables providers to send and receive the specified prescription transactions electronically.

Catalog of Clinical Quality Measures

This measure will track the number of measures recorded during a period, the number of QRDA files imported, the number of QRDA files exported, and the number of QRDA Category 3 aggregate reports created during the previous reporting period.

Associated Certification Criteria

170.315(c)(1) Clinical quality measures (CQMs) - Record and export	*(i)Record* *(ii)Export*
170.315(c)(2) Clinical quality measures (CQMs) - import and calculate	*(i)Import* (ii)Calculate
170.315(c)(3) Clinical quality measures (CQMs) - report	Enable a user to electronically create a data file for transmission of clinical quality measurement data:

Justification for Selected Measurement/Metric

These interdependent criteria will be tested together in order so that results can be evaluated in context. This metric will provide information about the types and rates of usage of reporting measures captured during patient encounters.

Test Methodology

Audit logs and integrated reporting from one inpatient and one outpatient facility will be used catalog the Clinical Quality Measures that are recorded, imported, and calculated. Individual and aggregated reports will be compared to assess consistency and completeness.

Expected Outcomes

This measure is expected to assess the functionality and usability of the related criteria.

Patient Engagement

This measure will report the number of times that patient health information was viewed, transmitted, downloaded, and filtered by timeframe .

Associated Certification Criteria

170.315(e)(1) View, download, and transmit to 3rd party	(i) Patients (and their authorized representatives) must be able to use internet-based technology to view, download, and transmit their health information to a 3rd party (ii) *Activity history log.*

Justification for Selected Measurement/Metric

Interaction with the internet-based technology indicates that patients and 3rd party providers find value in accessing patient health information remotely. This metric will provide information about the frequency of usage, and the rates and types of interaction that patients and third parties utilize.

Test Methodology

Audit logs and integrated reporting for a 14 day period will be used to catalog user and 3rd party interaction related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate the functionality and usability of the related criteria.

Electronic Exchange Message Compliance Rate

This measure will indicate the rate of messages sent to 3rd parties that are formatted and transmitted in accordance with the specified standard.

Associated Certification Criteria

170.315(h)(1) Direct Project

Justification for Selected Measurement/Metric

Transmitting patient information through modern modes of communication can improve the efficiency and accuracy care coordination as well as the privacy of patient data. This metric will provide information about the rates and types of information providers send via electronically.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog providers' use of electronic messages related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of example messages will be used to determine if they comply with the standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that health information sent to a 3rd party which must be formatted only as a "wrapped" message using the Applicability Statement for Secure Health Transport,

Version 1.2. It will also demonstrate that health information sent to a 3rd party using Direct in accordance with the Implementation Guide (IG) for Delivery Notification in Direct, Version 1.0.

Catalog immunization data transmitted to public health agencies

This measure will summarize the type and amount of interaction with public health agencies.

Associated Certification Criteria

170.315(f)(1) Transmission to immunization registries	(i)Create immunization information for electronic transmission (ii)Enable a user to request, access, and display a patient's evaluated immunization history and the immunization forecast from an immunization registry

Justification for Selected Measurement/Metric

Collecting and sharing immunization data is more crucial than ever. This metric will provide information about the rate and the type of immunization data transmitted to public health agencies.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the transmission of immunization data related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can create immunization information according to the specified standards. It will also demonstrate that users are able to request, access and display the evaluated immunization history and forecast from an immunization registry for a patient in accordance with the specified standards.

Catalog of syndrome-based public health surveillance information transmitted to public health agencies

This measure will assess the syndrome-based public health surveillance information transmitted to public health agencies.

Associated Certification Criteria

§ 170.315(f)(2) Transmission to public health agencies – syndromic surveillance	Create syndrome-based public health surveillance information for electronic transmission in accordance with the standard (and applicable implementation specifications)

Justification for Selected Measurement/Metric

This metric will provide information about the rate and the type of syndrome-based public health surveillance data transmitted to public health agencies.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the transmission of immunization data related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can create syndrome-based public health surveillance information for electronic transmission to public health agencies in accordance with the specified standards.

Catalog of reportable laboratory tests and values/results transmitted to public health agencies

This measure will assess the laboratory related interaction with public health agencies.

Associated Certification Criteria

§ 170.315(f)(3) Transmission to public health agencies – reportable laboratory tests and value/results	Create reportable laboratory tests and values/results for electronic transmission

Justification for Selected Measurement/Metric

This metric will provide information about the rate and the type of reportable laboratory tests and values/results transmitted to public health agencies.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the transmission of laboratory tests and results related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can electronically create reportable laboratory tests and values/results messages, which can be transmitted to public health agencies in accordance with the specified standards. It will also demonstrate that VersaSuite can represent data in the reportable laboratory test message using the specified standards.

Catalog of cancer case information transmitted to public health agencies

This measure will summarize the cancer case information transmitted to public health agencies.

Associated Certification Criteria

§ 170.315(f)(4) Transmission to cancer registries	Create cancer case information for electronic transmission

Justification for Selected Measurement/Metric

This metric will provide information about the rate and the type of cancer case data transmitted to public health agencies.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the cancer case data related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can create cancer case information for electronic transmission using the specified standards.

Catalog of electronic case information transmitted to public health agencies

This measure will summarize interactive and automated elements that support integration with public health agencies.

Associated Certification Criteria

§ 170.315(f)(5) Transmission to public health agencies – electronic case reporting	(i)Consume and maintain a table of trigger codes to determine which encounters may be reportable. (ii)Match a patient visit or encounter to the trigger code based on the parameters of the trigger code table. (iii)Case report creation. Create a case report for electronic transmission

Justification for Selected Measurement/Metric

This metric will provide information about the type and frequency of support used to facilitate electronic case reporting.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the type and frequency of support used to facilitate electronic case reporting related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can consume and maintain a table of trigger codes to determine which encounters may be reportable. It will also demonstrate that VersaSuite can match a patient visit or encounter to the trigger code based on the parameters of the trigger code table and create a case report for electronic transmission.

Catalog of antimicrobial use and resistance reporting information transmitted to public health agencies

This measure will summarize the antimicrobial use and resistance reporting that has been transmitted to public health agencies.

Associated Certification Criteria

§ 170.315(f)(6) Transmission to public health agencies – antimicrobial use and resistance reporting	Create antimicrobial use and resistance reporting information for electronic transmission

Justification for Selected Measurement/Metric

This metric will provide information about the type and frequency of reports transmitted to public health agencies regarding antimicrobial use and resistance.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the type and frequency of reports transmitted to public health agencies regarding antimicrobial use and resistance. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can create an electronic antimicrobial use and resistance reports including HAI Antimicrobial Use and Resistance (AUR) Antimicrobial Resistance Option (ARO) Reports, Antimicrobial Resistance Option (ARO) Summary Reports, and Antimicrobial Use (AUP) Summary Reports.

Catalog of Health care survey information transmitted to public health agencies

This measure will summarize health care survey information transmitted public health agencies.

Associated Certification Criteria

§ 170.315(f)(7) Transmission to public health agencies – health care surveys	Create health care survey information for electronic transmission

Justification for Selected Measurement/Metric

This metric will provide information about the type and rate of health care survey information transmitted to public health agencies.

Test Methodology

Audit logs and integrated reporting of a 14 day period will be used to catalog the type and frequency of health care survey information transmitted to public health agencies related to these requirements. Data will be collected from one inpatient and one outpatient facility. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can create health care survey data for electronic transmission in compliance with all mandatory elements and requirements.

Application Programming Interfaces

This measure will assess the support for patient selection provided in the Application Programming Interface.

Associated Certification Criteria

§ 170.315(g)(7) Application access - patient selection

Justification for Selected Measurement/Metric

This metric will provide information about the rate of support for patient selection provided by the Application Programming interface.

Test Methodology

Audit logs and integrated reporting will be used to catalog user interaction related to these requirements. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite can receive a request with sufficient information to uniquely identify a patient and return an ID or other token that can be used by an application to subsequently execute requests for that patient's data.

Catalog of API responses data requests

This measure will assess API's responses to all data requests.

Associated Certification Criteria

§ 170.315(g)(10) Standardized API for patient and population services
§ 170.315(g)(9) Application access- all data request

Justification for Selected Measurement/Metric

This metric will provide information about the rate of support for patient selection provided by the Application Programming interface.

Test Methodology

Audit logs and integrated reporting will be used to catalog user interaction related to these requirements. Visual review of output will be used to assess information for conformance to associated standards. If audit logs indicate that there is no adoption of the tools that support these criteria, interactive simulations will be used to produce representative data to assess.

Expected Outcomes

This measure is expected to demonstrate that VersaSuite's API able to respond to requests for patient data (using an ID or other token) for each of the individual categories listed in the Common Clinical Data Set (CCDS) and return the full set of data for that category, according to the required data standards in a computable format, requests for patient data associated with a specific dates and date ranges. It will also demonstrate that VersaSuite is able to respond to requests for patient data (using an ID or other token) for all of the data categories specified in the United States Core Data for Interoperability Standard (USCDI) at one time in a summary record formatted according to the Consolidated CDA Release 2.1 Continuity of Care Document (CCD) template.

SCHEDULE OF KEY MILESTONES

Key Milestones	Care Setting	Date/Timeframe
Scheduling and logistics	Inpatient/Outpatient	Completed by May 31st, 2023.
Data collection from Active Clients	Inpatient/Outpatient	Completed by September 29th, 2023.
Interactive Simulations	Inpatient/Outpatient	Completed by December 15th, 2023
Collation and finalization of results	Inpatient/Outpatient	Completed by February 1st, 2023

ATTESTATION

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Date: 10/26/22