

## REAL WORLD TESTING PLAN

### GENERAL INFORMATION

Plan Report ID Number: 20240924cor

Developer Name: CorrecTek

Product Name(s): Spark

Version Number(s): 7.1

Product List (CHPL) ID(s): 15.05.05.1292.CORT.01.00.1.200114

Developer Real World Testing Page URL: <https://www.correctek.com/onc-real-world-testing/>

### REAL WORLD TESTING APPROACH

The approach to Real World Testing of the Spark certified health IT product is to work with current clients that are using the system day to day in a real world production environment to test each of the applicable certification criteria. If no clients have opted to implement a particular certified criteria in production, then a stage environment that mimics a production environment will be used for the test. Each measure defined in the RWT plan below outlines how each criteria will be tested. Testing each criteria in a production or stage environment will confirm that each one is (or can be) used in the real world by active clients to accomplish the functionality each defines.

### STANDARDS UPDATES

Standard (and version)	No Updates
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

## MEASURES

List of measures that address each of the CHIT's applicable certification criteria.

### MEASURE DESCRIPTION & ASSOCIATED CRITERIA

List of measures identified, their associated certification criteria, and a description of each one.

Measurement / Metric	Associated Certification Criteria	Relied Upon Software (if applicable)	Description
TOC/RS Create & Send	§170.315(b)(1)	EMR Direct Interoperability Engine	This test is completed by generating transition of care/referral summary documents in accordance with standards specified in § 170.205(a)(3), (4), and (5) in the Spark product using a production client environment, sending them to another production client environment, and confirming that the summaries can be processed and displayed in the receiving production client environment. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.
TOC/RS Receive	§170.315(b)(1)	EMR Direct Interoperability Engine	This test is completed by receiving a transition of care referral summary sent from another production client environment to the Spark product using a production client environment and confirming that the summary can be processed and displayed in Spark product. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.
TOC/RS Validate	§170.315(b)(1)	EMR Direct Interoperability Engine	This test is completed by applying the C-CDA validation logic in the Spark product to the referral summary document(s) received in the TOC/RS Receive test. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.
TOC/RS Display	§170.315(b)(1)	EMR Direct Interoperability Engine	This test is completed by applying the C-CDA display logic in the Spark product to the referral summary document(s) received in the TOC/RS Receive test.
EHI Export Single	§170.315(b)(10)	N/A	This test is completed by selecting a single patient in the Spark product as user that has permission to complete a chart export and running the chart export routine to export the patient's chart to PDF and C-CDA file(s). If a PDF is generated the result has been met successfully.
EHI Export Multiple	§170.315(b)(10)	N/A	This test is completed by retrieving a list of patients in the Spark product as user that has permission to complete a chart export and running the chart export routine to export each patient's chart to PDF and C-CDA file(s). If multiple PDFs are generated the result has been met successfully.

CQM Record	§170.315(c)(1)	N/A	This test is completed by entering the data needed to calculate each CQM that the Spark product is certified for into the product. This test is completed using a production client environment. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.
CQM Export	§170.315(c)(1)	N/A	This test is completed by exporting the CQM's that the Spark Product is certified for using the data file format specified by §170.205(h)(2). This test is completed using multiple patients in a production client environment. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.
API Patient	§170.315(g)(7)	EMR Direct Interoperability Engine (Version 2017)	This test is completed by responding to requests for a patient from an outside system using production systems for both the request and the response. If no clients have elected to implement this feature in production for the response, then a stage environment will be used to conduct the test.
API Data All	§170.315(g)(9)	EMR Direct Interoperability Engine (Version 2017)	This test is completed by responding to requests for patient data for all data categories requested by an outside system using production systems for both the request and the response. If no clients have elected to implement this feature in production for the response, then a stage environment will be used to conduct the test.
API Data Category	§170.315(g)(10)	EMR Direct Interoperability Engine (Version 2017)	This test is completed by responding to requests for patient data for the individual data categories requested by an outside system using production systems for both the request and the response. If no clients have elected to implement this feature in production for the response, then a stage environment will be used to conduct the test.
Direct Msg Measure	§170.315(h)(1)	EMR Direct Interoperability Engine (Version 2017)	This test is completed by sending and receiving a Direct Message using a production client environment. If no clients have elected to implement this feature, then a stage environment will be used to conduct the test.

**MEASURE JUSTIFICATION**

*Provide an explanation for the measurement/metric selected to conduct Real World Testing.*

Measurement/Metric	Justification
TOC/RS Create & Send	This test is designed to confirm that the Spark product can successfully create and send transition of care/referral summary documents in the specified standard format for production patients.
TOC/RS Receive	This test is designed to confirm that the Spark product can successfully receive transition of care/referral summary documents using the specified standards for production patients from other production systems.
TOC/RS Validate	This test is designed to confirm that the Spark product can successfully validate transition of care/referral summary documents using the specified standards for production patients.
TOC/RS Display	This test is designed to confirm that the Spark product can successfully display transition of care/referral summary documents using the specified standards for production patients.
CQM Record	This test is designed to confirm that the Spark product can successfully record the information required to calculate the CQM's the product is certified for.
EHI Export Single	This test is designed to confirm that the Spark product can successfully export medical records for a single patient to PDF and C-CDA file(s).
EHI Export Multiple	This test is designed to confirm that the Spark product can successfully export medical records for a list of patients to PDF and C-CDA file(s).
CQM Export	This test is designed to confirm that the Spark product can successfully export the CQM's the product is certified for in data file formatted in accordance with §170.205(h)(2).
API Patient	This test is designed to confirm that the Spark product can respond to API requests to identify and provide an ID for patients known to it in the production environment.
API Data Category	This test is designed to confirm that the Spark product can respond to API requests for specific patient data categories for patients known to it and specified by the requesting system in the production environment.
API Data All	This test is designed to confirm that the Spark product can respond to API requests for all patient data categories for patients known to it and specified by the requesting system in the production environment.
Direct Msg Measure	This test is designed to confirm that the Spark product can send and receive Direct Messages according to the standards listed in §170.315(h)(1) in production environment.

## CARE SETTING(S)

*Care setting(s) covered by the identified measures.*

Care Setting	Associated Measure(s)	Justification
Correctional Health	TOC/RS Create & Send TOC/RS Receive TOC/RS Validate TOC/RS Display EHI Export Single EHI Export Multiple CQM Record CQM Export API Patient API Data Category API Data All Direct Msg Measure	The Spark EHR product is designed for and marketed to the Correctional Health care setting. The measures included in this Real World Testing plan are designed to test the ability of the Spark product to fulfill the requirements of each measure's associated certification criteria in a production environment or in a stage environment if a production environment is not available.

## EXPECTED OUTCOMES

*Description of expected outcomes for each measure.*

Measurement/Metric	Expected Outcomes
TOC/RS Create & Send	The expected outcome for this measure is the Spark product will create transition of care/referral summary documents in the specified format and will be able to successfully send them to the production system used by the testing partner. The expected outcome for this measure is that 90% or more of the summary documents created and sent are done so successfully.
TOC/RS Receive	The expected outcome for this measure is the Spark product will successfully receive transition of care/referral summary documents sent from the production system used by the testing partner. The expected outcome for this measure is that 90% or more of the summary documents sent are received successfully.
TOC/RS Validate	The expected outcome for this measure is the Spark product will successfully validate the transition of care/referral summary documents sent from the production system used by the testing partner. If the document is valid, the expected outcome is that the Spark product will display the valid document to the user. If the document is invalid, the expected outcome is that the Spark product will notify the user the document is invalid and provide information regarding why the document is invalid. The expected outcome for this measure is that 90% or more of the summary documents validated will be displayed or provide information to the user regarding why the document is invalid.
TOC/RS Display	The expected outcome for this measure is the Spark product will successfully display valid production transition of care/referral summary documents with the ability for users to specify which sections of the document are displayed, to specify the order of sections to display, and to specify the number of sections to display. The expected outcome for this measure is that 90% or more of the summary documents will be displayed successfully.
EHI Export Single	The expected outcome for this measure is the Spark product will successfully export medical records for a single patient to PDF and C-CDA file(s).

	This is the expected result more than 90% of the time. Error rates will be tracked and trended over time.
EHI Export Multiple	The expected outcome for this measure is the Spark product will successfully export medical records for a list of patients to PDF and C-CDA file(s). This is the expected result more than 90% of the time. Error rates will be tracked and trended over time.
CQM Record	The expected outcome for this measure is that the Spark product can record the data required each CQM it is certified for. Each CQM should display patients included in the Initial Population, Denominator, Numerator, Excluded List, and Exception List. Error rates for patients not correctly included in the Initial Population, Denominator, Numerator, Excluded List, or Exception List will be tracked and analyzed for correction.
CQM Export	The expected outcome for this measure is that the Spark product can export a QRDA - Category I XML file for each patient included in the Initial Population, Denominator, Numerator, Excluded List, and Exception List. Error rates for patients not correctly exported will be tracked and analyzed.
API Patient	The expected outcome for this measure is that the Spark product will provide a patient ID to the requesting system if the requesting system is authorized and a patient is found using the demographic data provided. If the requesting system is not authorized or no patient is found using the demographics specified, then no patient id will be provided. The expected outcome for this measure is that Spark product will provide the identified patient id for all authorized requests made with matching patient data.
API Data Category	The expected outcome for this measure is that the Spark product will provide patient data for the requested data category if the requesting system is authorized, the patient is known to it, and the patient has data in the specified category. If the requesting system is not authorized, the patient is not found using the id specified, or the patient has no data in the data category specified, then no patient id will be provided. The expected outcome for this measure is that the Spark product will provide the requested data for all authorized requests when the patient has data to return.
API Data All	The expected outcome for this measure is that the Spark product will provide patient data for all data categories if the requesting system is authorized, the patient is known to it, and the patient has data in one or more categories. If the requesting system is not authorized, the patient is not found using the id specified, or the patient has no data in any of the categories, then no patient id will be provided. If the requesting system is authorized and the patient is found using the id specified but the patient does not have data in some categories, then a response will be provided with information in the categories that the patient has data for. The expected outcome for this measure is that the Spark product will provide the requested data for all authorized requests when the patient has data to return.
Direct Msg Measure	The expected outcome for this measure is that the Spark product can successfully send one or more direct messages from one production client environment to another production client environment and that it can receive one or more Direct Messages using the same two production environments. The number of Direct Messages sent and received will be tracked. Any errors that occur will be tracked and analyzed.

