INTRODUCTION

Sisohis application is a software that enables the handling of health records occurring during the appointment, admission, polyclinic, hospitalization, treatment and all ongoing processes which are carried out by the institutions or persons providing health services, and the tracking of administrative resources used during these such as people, materials, and finances.

SisoHIS aims to communicate data from one health unit to another application or client service, workability with different applications by meeting the expectations and requirements of this test plan and adhering to certification criteria.

GENERAL INFORMATION

Plan Report ID Number:	
Developer Name:	Sisoft Healthcare Information Systems
Product Name(s):	SisoHis
Version Number(s):	2
Certified Health IT Product List (CHPL) ID(s):	15.05.05.3018.SISO.01.00.0.180621
Developer Real World Testing Page URL:	https://sisoft.com.tr/en/real-world-testing.jsp

JUSTIFICATION FOR REAL WORLD TESTING

SisoHIS ensures the sharing of healthcare and other necessary records of the patients with other health units and applications via Api Integration services.

The SisoHIS Api services to be used in the test plan aims to verify that the application is working according to the requirements of the articles 170.315 (f)(5): Transmission to Public Health Agencies - Electronic Case Reporting, and 170.315 (g)(7): Application Access - Patient Selection in scope of this certification.

The conformity to the test criteria in scope of this certification will be provided through the test scenarios. The aim of the test plan approach is to test the data structures through the 170.315 (f)(5): Transmission to Public Health Agencies - Electronic Case Reporting, and 170.315 (g)(7): Application Access - Patient Selection api services created using the standards and requirements of the certification criteria

STANDARTS UPDATES

Standard (and version)	No Updates
Updated certification criteria and associated product	N/A
Health IT Module CHPL ID	15.05.05.3018.SISO.01.00.0.180621
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

The test plan aims to realize the Real World tests of 170.315 (f)(5): Transmission to Public Health Agencies - Electronic Case Reporting and 170.315 (g)(7): Application Access - Patient Selection in scope of certification criteria.

The following basic measurement and monitoring titles have been individually organized in accordance with the test and results procedures set out in the 2015 Certificate Criteria, however the interoperability and accuracy of the 170.315 (f)(5) and 170.315 (g)(7) certification criteria will be checked in the test plan within similar tests and measurements.

MEASURE-A
Meeting Certification Criteria and Requirements of 170.315(f)(5)

Certification Criteria	Requirement
(i) Consume and maintain a table of trigger codes to determine which encounters may be reportable.	• The Health IT Module consumes 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.	• The Health IT module matches one or more patient visits or encounters to the parameters of the trigger code table

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(iii) Case report creation.
 	
Create a case report for electronic transmission:
(A) Based on a matched trigger from paragraph (f)(5)(ii);
(B) That includes, at a minimum,
  (1) The Common Clinical Data Set.
  (2) Encounter diagnoses. Formatted according to at least one of the following standards:
    (i) The standard specified in § 170.207(i).
    (ii) At a minimum, the version of the standard specified in 170.207(a)(4).
  (3) The provider's name, office contact information, and reason for visit
  (4) An identifier representing the row and version of the trigger table that triggered the case report.
	• The Health IT module creates a case report for the patient encounter(s) based on a matched trigger from (f)(5)(ii).

	• The case report generated for the patient encounter(s) based on a matched trigger from (f)(5)(ii) includes where applicable:
	  • Encounter diagnoses using the standard specified in § 170.207(i) or, at a minimum, the version of the standard specified in § 170.207(a)(4);
	  • The provider's name, office contact information, and reason for visit; and
	  • An identifier representing the row and version of the trigger table.
	
	• The following elements from the Common Clinical Data Set should be included:
	  • Patient Name
	  • Sex
	  • Date of Birth
	  • Race and Ethnicity
	  • Preferred language
	  • Problems
	  • Medications
	  • Laboratory Tests
	  • Laboratory Values(s)/Result(s)
	  • Vital Signs
	  • Procedures
	  • Care Team Member(s)
	  • Immunizations
	  • Assessment and Plan of Treatment

Measure Description & Associated Criteria

This measurement will test compliance with **(f)(5) Transmission to Public Health Agencies - Electronic Case Reporting** Certification criteria through the data and reports generated in these certification criteria, using the Sisohis App.

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

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Measurement / Metric	Associated Certification Criteria	Description
Certification Criteria (i) Validate	170.315 (f)(5)	Step 1- The tester reviews documentation supplied by the health IT developer describing the means by which the Health IT Module can consume a table of trigger codes that will be used to determine which encounters should initiate an initial case report being sent to public health. Step 2- The tester reviews documentation supplied by the health IT developer describing the means by which the Health IT Module is able to maintain updates to a table of trigger codes from the prior step.
Certification Criteria (iii) Validate	170.315 (f)(5)	The tester reviews documentation supplied by the Health IT Vendor describing the means by which the Health IT module can correctly match a patient encounter or visit based on the parameters of the trigger code table.
Certification Criteria (iii) (A) (B) Validate	170.315 (f)(5)	The tester reviews documentation supplied by the Health IT Vendor describing the set of data elements the Health IT module can create making up a case report for the patient encounter(s) based on a matched trigger from (f)(5)(ii).

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Measure Justification

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

Measurement / Metric	Justification
170.315 (f)(5) Certification Criteria's Validate	• API compliance is checked for demographic identity information, medical records and other parameters that make up the public health report specified in the Public Health certificate criteria. • In Api tests, data packages will be created using real data types, definitions, however the patient demographic data and identity information will be linked to anonymized control. • A Sisoft Api Test document will be prepared for the functionality, control and implementation of the Tests required in the certification criteria. • The data and report examples used for the f(5) Public Health criteria will be compatible with the access services documented in g(7) Patient Access required Api services. • *Additional documents pertinent to the Certification test steps can be prepared for the test stages to be carried out properly.*
170.315 (f)(5) Certification Criteria (iii) Validate	*Report and data examples used in (f)(5) Transmission to Public Health Agencies criterion, (g)(7) Patient Access Requirement can be tested and verified. by access services documented in Api services.*

Expected Outcomes

Description of expected outcomes for each measure.

Measurement / Metric	Expected Outcomes
170.315 (f)(5) Certification Criteria (i)	*The expected outcome of the measurement is that the demographical identity information, medical records, and other parameters specified in the Public Health certification criteria are to be reportable by Sisohis application and the clinical parameters in these reports to meet the expected results.*
170.315 (f)(5) Certification Criteria (i)	*SisoHIS Api integration build allows for the Public Health reports being created in certain formats and the report to be used by integrated applications. The expected outcome of the measurement is to meet 90%s or more of the Certification Criteria.*
170.315 (f)(5) Certification Criteria (iii)(A)(B)	

MEASURE-B

Meeting Certification Criteria and Requirements of 170.315(g)(7)

This measure will test the compliance of the certified API technology using the SisoHIS application.

Certification Criteria	Requirement
(i) The technology must be able to 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.	The user demonstrates that when the Health IT Module's identified API receives a request from another software component/service with enough information about a patient to identify that patient, the Health IT Module's API returns an ID or other patient token.
(ii) Documentation (A) The API must include accompanying documentation that contains, at a minimum: (1) API syntax, function names, required and optional parameters and their data types, return variables and their types/structures, exceptions and exception handling methods and their returns.	(ii)(A)(1) The health IT developer supplies documentation describing the API, with the intended audience of developers, and includes at a minimum: • API syntax; • function names; • required and optional parameters and their data types; • return variables and their types/structures; and • exceptions and exception handling methods and their returns.
(2) The software components and configurations that would be necessary for an application to implement in order to be able to successfully interact with the API and process its response(s).	(ii)(A)(2) The health IT developer supplies accompanying documentation describing the Health IT Module's API implementation requirements, with the intended audience of developers, which must include: • The software components and configurations that would be necessary for an application to implement in order to be able to successfully interact with the API and process its response(s).
(3) Terms of use. The terms of use for the API must be provided, including, at a minimum, any associated developer policies and required developer agreements.	(ii)(A)(3) The health IT developer supplies the API's Terms of Use, which needs to include, at a minimum, any associated developer policies and required developer agreements.
(ii) Documentation (B) The documentation used to meet paragraph	The documentation used to meet paragraph (g)(7)(ii)(A) of this section must be available via a publicly

(g)(7)(ii)(A) of this section must be available via a publicly accessible hyperlink.	accessible hyperlink.

Measure Description & Associated Criteria

This measurement will test compliance with **170.315 (g)(7): Application Access - Patient Selection** Certification criteria through the data and reports generated in these certification criteria, using the Sisohis App.

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

Measurement / Metric	Associated Certification Criteria	Description
Certification Criteria 170.315 (g)(7) (i) Sisohis Api / Response	170.315 (g)(7)	1. The tester verifies the Health IT Module's API can receive a query from the health IT developer's identified application for a specific patient ID or other token that can be used by the identified application to subsequently execute requests for that patient's data. 2. The tester verifies that the Health IT Module's API returns a specific patient ID or other token that can be used by an application to subsequently execute requests for that patient's data.
Certification Criteria 170.315 (g)(7) (ii)(A)(1) Tester Validate	170.315 (g)(7)	The tester verifies that the supplied documentation for the Health IT Module's API definition is accurate and that it matches the version of the software release.
Certification Criteria 170.315 (g)(7) (ii)(A)(2) Tester Validate	170.315 (g)(7)	The tester verifies that the supplied documentation for interfacing with the Health IT Module's API (including both the software components and the configuration) is accurate and without omission and that it matches the version of the software release.
Certification Criteria 170.315 (g)(7) (ii)(A)(3) Tester Validate	170.315 (g)(7)	The tester verifies the supplied documentation contains the Terms of Use and that it matches the version of the software release.

Certification Criteria 170.315 (g)(7) (ii)(B) Tester Validate	170.315 (g)(7)	The tester verifies that the supplied documentation is publicly accessible by hyperlink.

Measure Justification

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

Measurement / Metric	Justification
Certification Criteria 170.315 (g)(7) (i) Sisohis Api / Response	• The access information specified in the API access page and document will be used for the successful execution of this test. • The system will send the expected results to callings to be made from the external application or test interface.
Certification Criteria 170.315 (g)(7) (ii)(A) Tester Validate	• The information and documents on the API access page and its linked pages will provide the information on how the test accesses will be conducted, additional parameters and results.
Certification Criteria 170.315 (g)(7) (ii)(B) Tester Validate	• The API access page will provide the necessary access points for the tests requested in 170.315 (g)(7) (i) and the integration processes of different applications.

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Expected Outcomes

Description of expected outcomes for each measure.

Measurement / Metric	Expected Outcomes
Certification Criteria 170.315 (g)(7) (i) Sisohis Api / Response	*The expected outcome of the measurement is that the expected results in the test criteria or the API responses work according to the documents prepared for this test.* *The system will show Patient ID, other content expected according to various query criteria, or the lack of results as a response. The operability of the queries will be assured with a Token ID as indicated in Api documents. Results that are expected to yield 95% or more of responses to queries.*
Certification Criteria 170.315 (g)(7) (ii)(A) Tester Validate	*In order to run 170.315(g)(7) tests, SisoHIS Api access page and documents have been prepared.* *Technical contents and documents contain parameters and links in order to run tests in this certification process.*
Certification Criteria 170.315 (g)(7) (ii)(B) Tester Validate	*The expected result for the measurement targets 95% compatibility of the prepared api page, parameter details, link information, and other additional components.*

Care Setting(s)

Care setting(s) covered by the identified measures.

Care Setting	Associated Measure(s)	Justification
Ambulatory	Certification Criteria 170.315 (f)(5)(i) Certification Criteria 170.315 (f)(5)(i) Certification Criteria 170.315 (f)(5) (iii)(A)(B) Certification Criteria 170.315 (g)(7) (i) Certification Criteria 170.315 (g)(7) (ii)(A)(B)	The requirements that take place in this test plan prepared for f(5) Public Health and (g)(7) Patient Access certification criteria have been prepared for SisoHIS application and Api interface services Outpatient environment.

SCHEDULE OF KEY MILESTONES

List of key milestones, their associated care settings, and dates/timeframes.

Key Milestone	Date / TimeFrame
Finalization of RWT plan.	11/12/2021
Submission of final RWT plan to ONC-ACB.	11/12/2021
Identify clients and partners to participate in RWT.	01/01/2022 – 01/02/2022
Conduct tests as identified by measures and record outcomes.	01/01/2022 – 01/12/2023
Comparison of actual outcomes to expected outcomes.	01/01/2022 – 01/12/2023
Analysis of testing results.	01/01/2022 – 01/15/2023
Creation of RWT report.	01/01/2022 – 01/15/2023
Submission of RWT report to ONC-ACB.	01/15/2023

ASTESTATION

This Real World Test plan is complete with all necessary elements, including measures that address all certification criteria and maintenance settings. All information in this plan is up-to-date and fully meets the Health IT developer's Real World Test requirements.

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Date:	11/30/2021

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