Rhapsody Integration Engine - Real World Test Plan 2025

General Information

Developer Name: InterOperability Bidco, Inc., dba Rhapsody

Product Name: Rhapsody Integration Engine

Version Numbers (at time of writing):

Rhapsody Version	CHPL ID
6.4	15.04.04.1291.Rhap.64.00.0.180918
6.5	15.04.04.1291.Rhap.65.01.0.200102
6.6	15.04.04.1291.Rhap.66.02.0.210315
6.7	15.04.04.1291.Rhap.66.03.0.210907
6.8	15.04.04.1291.Rhap.68.04.0.220107
6.9	15.04.04.1291.Rhap.69.05.0.221108
6.10	15.04.04.1291.Rhap.06.06.0.221221
7.1	15.04.04.1291.Rhap.06.07.0.231018
7.2	15.04.04.1291.Rhap.07.09.0.240529
7.3	15.04.04.1291.Rhap.07.10.0.240828

Certified Health IT Product List (CHPL) ID(s): 170.315(f)(1), 315(f)(2), 315(f)(3), 315(f)(4), 315(f)(5), 315(f)(6), 315(f)(7)

Developer Real World Testing Page URL:

https://rhapsody.health/onc-compliance/

Justification for Real World Testing Approach

This document describes the plan to be used by Rhapsody to perform Real World Testing of the Rhapsody Integration Engine against certification criteria 170.315(f)(1) through to, and including, 170.315(f)(7).

The overall approach will include identifying clients in care setting scenarios which will allow us to appropriately perform Real World Testing against the certification criteria. Once clients have been identified, testing will be conducted throughout the year, with the data gathered being used to formulate a final test report in the last quarter of the year.

As the criteria being tested are all generally around the creation and transmission of messages, the measurements will also be centered around both message creation and transmission. The first measurement will be a rate measurement for the successful creation of messages. The creation of messages via standard HL7 schemas will demonstrate conformance. The second measurement will be a rate measurement for the successful transmission of messages. The acceptance of messages by a downstream system will demonstrate that transmission is taking place.

In order to demonstrate ongoing testing for each certification criteria, a minimum sample size of at least 100 messages will be required to be collected over one data collection period. There will then be three such collections of data across the total period where testing is conducted. The collection of this much data, at differing points through the collection period will demonstrate ongoing success and adherence to the criteria.

As an integration engine, Rhapsody is not marketed to a specific care setting. Rather, it often connects to a variety of settings from a central position in a hospital or healthcare network. However, as the certification criteria are for certain care settings only, namely Inpatient and Ambulatory, the testing will be conducted with clients whose engines connect to such settings.

The expected outcome of testing is that the rate measurement, for both creation and transmission, shows a 95% or better success rate across all collected data for each tested certification criteria.

In total, this Real World Testing will demonstrate the continued compliance of the Rhapsody Integration Engine to certification criteria 170.315(f)(1) through to 170.315(f)(7).

Standards Updates

Includes standards version advancement process (SVAP) and United States Core Data for Interoperability (USCDI)

Standard (and version)	N/A
Updated certification criteria and associated	N/A
product	
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	N/A
(SVAP only) Conformance measure	N/A

USCDI updated certification criteria (and USCDI	N/A
version)	

Measures Used in Overall Approach

Description of Measurement / Metric

The following table describes the measurements being used. Note that justifications for these measurements are described further down in this section.

Measurement / Metric	Description
Rate of successful creation of	This measurement will look at the success rate of the creation of
messages.	messages (as created from standard HL7 schemas).
Target sample size per collection event: The target sample size is at least 100 messages. This will determine the timespan of a collection event.	Failures may either occur due to issues with up-stream systems (e.g., not sending enough data, or incorrect data), or failures of the integration engine after correct data has been received. Only the latter will count towards the total.
Timespan: 1* day period x 3 collection events	
* Note: Volume of messages will be considered for the timespan. For sites where volume of data for a specific message type is greater than per day, a single collection would take place over 1 day. For sites where volume of data for a specific message type is less than 100 per day, the collection will take place over a longer time period in order to achieve the minimum sample size (e.g. it may take up to a week to achieve a sample size of 100 messages). If collecting the minimum sample size is not possible for certain criteria, it will be noted, and a smaller sample size decided on.	

Rate of successful transmission of messages.

Target sample size per collection event: The target sample size is at least 100 messages. This will determine the timespan of a collection event.

Timespan: 1* day period x 3 collection events

* Note: Volume of messages will be considered for the timespan.
For sites where volume of data

for sites where volume of data for a specific message type is greater than 100 per day, a single collection would take place over 1 day.

place over 1 day.
For sites where volume of data for a specific message type is less than 100 per day, the collection will take place over a longer time period in order to achieve the minimum sample size (e.g. it may take up to a week to achieve a sample size of 100 messages). If collecting the minimum sample size is not possible for certain criteria, it will be noted, and a smaller sample size decided on.

This measurement will look at the success rate of the transmission of messages to downstream systems. Failures due to connection issues, or system issues unrelated to the message will be discounted. Only data-related failures will be considered and counted towards this total.

Associated Criteria and Measurements Used

Criteria	Measurement used
170.315 (f)(1): Transmission to Immunization Registries	 Rate of successful creation of messages. Rate of successful transmission of messages.
170.315 (f)(2): Transmission to Public Health Agencies - Syndromic Surveillance	 Rate of successful creation of messages. Rate of successful transmission of messages.

170.315 (f)(3): Transmission to Public Health Agencies - Reportable Laboratory Tests and Values/Results	 Rate of successful creation of messages. Rate of successful transmission of messages.
170.315 (f)(4): Transmission to Cancer Registries	Rate of successful creation of messages.
170.315 (f)(5): Transmission to Public Health Agencies - Electronic Case Reporting	Rate of successful creation of messages.
170.315 (f)(6): Transmission to Public Health Agencies - Antimicrobial Use and Resistance Reporting	Rate of successful creation of messages.
170.315 (f)(7): Transmission to Public Health Agencies - Health Care Surveys	Rate of successful creation of messages.

Justification for Selected Measurement/Metric

Justification
Why message creation?
All (f) criteria have a message creation
component.
In Rhapsody, the creation of HL7 v2 and CDA
messages is most commonly done via the use
of schemas. The schemas for HL7 v2 messages
are provided by Rhapsody and are created
directly from the specifications provided by HL7
(the organization). The schemas for CDA messages are downloaded by the user directly
from HL7 (the organization).
Tom Tie organization).
As such, the creation of the message using HL7
schema is enough to signal conformance.
Why rate?
For Real World Testing, the ongoing successful
creation of messages needs to be
demonstrated. In order to compare success and
failure over a time period, we have chosen to
use a rate measurement. The rate will be
successful message creation compared to failed
message creation.
Why the chosen timespan?
A sample size of (minimum) 100 messages will
be enough to demonstrate working
functionality. In a high message volume
environment, this sample size collected over 1

day may be much higher. There will then be three such collection events, which will mean a minimum of 300 messages created. Rate of successful transmission of messages Why message transmission? Some (f) criteria have a message transmission Target sample size per collection event: The component. target sample size is at least 100 messages. This After the successful creation of a message, the will determine the timespan of a collection receipt of a positive acknowledgement will event. show that the downstream system has accepted the message. Timespan: 1* day period x 3 collection events Why rate? * Note: Volume of messages will be considered For Real World Testing, the ongoing successful transmission of messages needs to be for the timespan. For sites where volume of data for a specific demonstrated. In order to compare success and message type is greater than 100 per day, a failure over a time period, we have chosen to single collection would take place over 1 day. use a rate measurement. The rate will be For sites where volume of data for a specific successful message transmission compared to message type is less than 100 per day, the failed message creation. collection will take place over a longer time period in order to achieve the minimum sample Why the chosen timespan? size (e.g. it may take up to a week to achieve a A sample size of (minimum) 100 messages will sample size of 100 messages). be enough to demonstrate working If collecting the minimum sample size is not functionality. In a high message volume possible for certain criteria, it will be noted, and

environment, this sample size collected over 1

day may be much higher. There will then be three such collection events, which will mean a

minimum of 300 messages created.

Care Settings

a smaller sample size decided on.

As an integration engine, Rhapsody is not marketed directly to any specific care setting. Rather, it is marketed to hospitals or healthcare networks. From its position in a hospital or healthcare network solution, it will often connect to (or be a part of) a variety of different care settings.

The following table shows the care settings where Real World Testing will be performed.

Care Setting	Justification
Inpatient	The type of messages covered by 170.315 (f) criteria is commonly used in the Inpatient care setting.

	We believe that most hospitals and healthcare network solutions have this care setting, and tests involving the corresponding message types will be representative of a large group of existing and future clients.
	The criteria covered will be: 170.315 (f)(1), (2), (3), (5) and (6) criteria.
Ambulatory	The Ambulatory care setting will be one of the care settings tested in because a number of the (f) criteria are specifically for this care setting.
	We believe that most hospitals and healthcare network solutions have this care setting, and tests involving the corresponding message types will be representative of a large group of existing and future clients.
	The criteria covered will be: 170.315 (f)(1), (2), (4), (5), and (7) criteria

Expected Outcomes

Measurement / Metric	Expected Outcomes
Rate of successful creation of messages.	It is expected that there will be at least 100 messages in each of three periods of collection that have been processed by Rhapsody. The success rate of messages is expected to be 95% or better - this will demonstrate individual criterion functionality. This will be applicable for 170.315(f)(1), 315(f)(2), 315(f)(3), 315(f)(4), 315(f)(5),
Rate of successful transmission of messages	315(f)(6), 315(f)(7). It is expected that there will be at least 100 messages in each of three periods of collection that have been processed by Rhapsody. The success rate of messages is expected to be 95% or better - this will demonstrate adherence to transmission criterion. This will be applicable for 170.315(f)(1), 315(f)(2), 315(f)(3).

Schedule of Key Milestones

Key Milestone	Date / Timeframe
Find Real World Testing partners. For this	January – March 2025
milestone, we will begin to identify clients who	
have implemented the necessary scenarios	
required for Real World Testing.	
We will conduct interviews and examination of	
client configuration to ensure they can meet the	
tested criteria.	
Once identified, we will request their	
participation as a testing partner for the	
relevant criteria and schedule the testing.	
Conduct testing. At the agreed-upon test times,	April - August 2025
we will work with testing partners to collect the	
raw data. False negatives can be identified at	
this stage. Processing of the raw data into	
reportable forms will also begin.	
Completion of test report. The completed	February 1, 2026
report will be submitted to Drummond Group.	

Attestation

Date:

10/18/2024

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.

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.

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Authorized Representative Signature:
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