Juno Emergency Services Solution v3.1 Real World Test Results

CHPL # 15.04.04.2925.JESS.03.01.0.210308

https://junohealth.com/certifications

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GENERAL INFORMATION

Plan Report ID Number:	JESSv3.1-2022-01
Developer Name:	DSS Incorporated
Product Name(s):	Juno Emergency Services Solution
Version Number(s):	V3.1
Certified Health IT Product List (CHPL) Product Number(s):	CHPL ID 15.04.04.2925.JESS.03.01.0.210308
Developer Real World Testing Plan and Results Report Page URL:	https://junohealth.com/certifications

WITHDRAWN PRODUCTS

If a developer withdrew any products within the past year that were previously included in their Real World Testing plan, please provide the following information.

Product Name(s):	Juno Emergency Services Solution
Version Number(s):	V3.1
CHPL Product Number(s):	CHPL ID 15.04.04.2925.JESS.03.01.0.210308
Date(s) Withdrawn:	**10/17/2022**
Inclusion of Data in Results Report:	Since there were no customers for JESS v3.1, data entered by test users in a pre-production test environment was used for results reporting.

CHANGES TO ORIGINAL PLAN

Summary of Change	Reason	Impact
Results were obtained using data in a pre-production JESS v3.1 test environment. Users entered data according to test scripts for each measure found in the Appendices of the Juno Emergency Services Solution v3.1 Real World Test Plan published 11/10/2021.	Since no client data was available for review, test data was entered in a pre-production environment.	Sample size was reduced due to the unavailability of client data.

SUMMARY OF TESTING METHODS AND KEY FINDINGS

Summary of Testing Methods

No Real World Testing client data was available as JESS v3.1 did not have any active customers and development was underway for a JESS v3.2.

In a pre-production JESS v3.1 test environment, test data was entered by a set of users using test scripts for each measure published in the Appendices of the Juno Emergency Services Solution v3.1 Real World Test Plan. Aggregate data for v3.1 was compiled for each of the measure scenarios.

Scenario #	Approach/Description	Real World Test Results Criteria
170.315(b)(1) Transitions of Care Part 1 - Receive		

1	170.315(b)(1) Receipt and Validation of CCD – import document, validate, view specific section, set the # of sections, rearrange the order of display	Numerator = # scenarios with expected results
		Denominator = # scenarios

2	170.315(b)(1) Receipt and Validation of Referral Note – import document, validate, view specific section, set the # of sections, rearrange the order of display	Numerator = # scenarios with expected results
		Denominator = # scenarios

170.315(b)(1) Transitions of Care Part 2 - Send		

3	170.315(b)(1) Creation and Transmission of CCD	Numerator = # correct data elements in created and transmitted CCD
		Denominator = # expected data elements in created and transmitted CCD

4	170.315(b)(1) Creation and Transmission of Referral Note	Numerator = # correct data elements in transmitted Referral Note
		Denominator = # expected data elements in transmitted Referral Note

170.315(b)(2) Clinical Information Reconciliation and Incorporation

Scenario #	Approach/Description	Real World Test Results Criteria

1	170.315(b)(2) Import, Reconciliation, and Incorporation of CCD	Numerator = # scenarios with successfully imported and reconciled CCD
		Denominator = # scenarios

2	170.315(b)(2) Import, Reconciliation, and Incorporation of Referral Note	Numerator = # scenarios with successfully imported and reconciled Referral Note
		Denominator = # scenarios

170.315(f)(2) Transmission to Public Health Agencies – Syndromic Surveillance

Scenario #	Approach/Description	Real World Test Results Data

1	170.315(f)(2) Creation, Transmission, and Validation of A04 and A03 ADT messages	Numerator = # correct data elements in all ADT messages created and sent in scenario
		Denominator = # data elements expected in all ADT messages in scenario

2	170.315(f)(2) Creation, Transmission, and Validation of A04, A03 and A08 ADT messages	Numerator = # correct data elements in all ADT messages created and sent in scenario
		Denominator = # data elements expected in all ADT messages in scenario

3	170.315(f)(2) Creation, Transmission, and Validation of A04, A03, A08 and A01 ADT messages	Numerator = # correct data elements in all ADT messages created and sent in scenario
		Denominator = # data elements expected in all ADT messages in scenario

170.315(f)(3) Transmission to Public Health Agencies – Reportable Laboratory Tests and Values/Results

Scenario #	Approach/Description	Real World Test Results Data

1	170.315(f)(3) Successful Creation and Transmission, and Validation of ORU messages.
	Note: Test patients used in this scenario were pre-registered to mimic real world conditions.
		Numerator = # correct data element in outgoing ORU HL7 message
		Denominator =# expected data elements in outgoing ORU HL7 message

Summary of Data for v3.1

170.315(b)(1) Transitions of Care Part 1 - Receive

Test Scenario	User 1 GM	User 2 KB	User 3 EG	User 4 AR	User 5 KA	User 6 OH	Total %
Scenario 1 – expected results for imported CCD	1/1	1/1	1/1	1/1	1/1	1/1	100%
Scenario 2 – expected results for imported RN	1/1	1/1	1/1	1/1	1/1	1/1	100%
Part 1 Total							100%

170.315(b)(1) Transitions of Care Part 2 - Send

Test Scenario	User 1 GM	User 2 KB	User 3 EG	User 4 AR	User 5 KA	User 6 OH	Total %
Scenario 3 – correct data elements in outgoing transmitted CCD	41/45	44/45	44/45	44/45	44/45	44/45	97%
Scenario 4 – correct data elements in outgoing transmitted RN	42/46	45/46	45/46	45/46	45/46	45/46	96%
Part 2 Total							96.5%

170.315(b)(2) Clinical Information Reconciliation and Incorporation

Test Scenario	User 1 GM	User 2 KB	User 3 EG	User 4 AR	User 5 KA	User 6 OH	Total %
Scenario 1 – correctly reconciled CCD	1/1	1/1	1/1	1/1	1/1	1/1	100%
Scenario 2 – correctly reconciled RN	1/1	1/1	1/1	1/1	1/1	1/1	100%
Overall Total Success							100%

170.315(f)(2) Transmission to Public Health Agencies – Syndromic Surveillance

Test Scenario	User 1 GM	User 2 KB	User 3 EG	User 4 AR	User 5 KA	User 6 OH	Total %
Scenario 1 – correct data elements in A04 and A03	26/26	26/26	26/26	26/26	26/26	26/26	100%
Scenario 2 – correct data elements in A04, A03, and A08	34/34	34/34	34/34	34/34	31/34	34/34	99%
Scenario 3 – correct data elements in AO4, A08, A03 and A01	38/43	38/43	38/43	38/43	38/43	38/43	84%
Overall Total Success							94.6%

170.315(f)(3) Transmission to Public Health Agencies – Reportable Laboratory Tests and Values/Results

Test Scenario	User 1 GM	User 2 KB	User 3 EG	User 4 AR	User 5 KA	User 6 OH	Total %
Scenario 1 – correct data elements in outgoing ORU	10/11	10/11	10/11	10/11	10/11	10/11	91%
Overall Total Success							91%

Key Findings

Test data similar to that required for ONC certification was used in an attempt to test the full breadth of measure functionality. With no client data to utilize for the analysis however, the power of the study was somewhat reduced due to the small sample size.

Testing results for 170.315(b)(1) Transitions of Care Part 1 – Receive, 170.315(b)(1) Transitions of Care Part 2 – Send, and 170.315(b)(2) Clinical Information Reconciliation and Incorporation revealed an overall very high success rate. Analysis of the few errors encountered during the (b)(2) send portion found the errors to be related to user data entry.

Analysis of the 170.315(f)(2) and 170.315(f)(3) test data found that all errors were related to technical issues in the pre-production environment with two (f)(2) message segments and one (f)(3) message segment. Due to the limited sample size, the small number of errors had a considerable impact on the overall success rate. Since this product was not implemented at any customer sites and has subsequently been withdrawn, no further action will be taken. Additional testing will be done to ensure that the errors do not persist when testing v3.2.

STANDARDS UPDATES (INCLUDING STANDARDS VERSION ADVANCEMENT PROCESS (SVAP) AND UNITED STATES CORE DATA FOR INTEROPERABILITY (USCDI))

Both required and voluntary standards updates must be addressed in the Real World Testing plan. Real World Testing plans must include all certified health IT updated to newer versions of standards prior to August 31 of the year in which the updates were made. Indicate as to whether optional standards, via SVAP and/or USCDI, are leveraged as part of the certification of your health IT product(s).

[ ] Yes, I have products certified with voluntary SVAP or USCDI standards. (If yes, please complete the table below.

[X] No, none of my products include these voluntary standards.

Care Setting(s)

The RWT Test Plan was intended for the Emergency Department/Urgent Care Ambulatory care setting; however, no client data was available as there were no customers for this product. Data was entered in a pre-production JESS v3.1 environment.

Metrics and Outcomes

Measurement /Metric	Associated Criterion(a)	Relied Upon Software (if applicable)	Outcomes	Challenges Encountered (if applicable)
Successful creation, display, and transmission of the C-CDA for transition of care/referral summaries, i.e., Continuity of Care Document and Referral Note, in the format that conforms to the standard specified in § 170.202(d) with no errors detected during the validation process. The measure includes two parts, i.e., (1) % scenarios that include receipt of C-CDAs and a display of C-CDAs received in human readable format the required data as detailed in § 170.205(a)(3), (4), and (5) using the using the Continuity of Care Document and Referral Note document templates that allow the user to view a specific section, set the # of sections to display and rearrange the order of the display	§ 170.315(b)(1)		6/6 = 100%	NA

Numerator= # scenarios with expected results *Denominator = # scenarios tested with C-CDAs received (Scenarios 1-2 included in test plan)*				
(2) % scenarios that include creation and successful transmission of the data for Continuity of Care Document and Referral Note document types through SMTP protocol to an appropriate direct address in accordance with § 170.202(d) based on the date/time specified and that leads to such summaries being processed by a service that has implemented the standard specified in § 170.202(a) *Numerator= # correct data elements in outgoing C-CDA's* *Denominator = # correct data elements expected in C-CDAs created and transmitted (Scenarios #3-4) included in test plan)*	§ 170.315(b)(1)		528/546 = 96.5%	NA
Successful import, reconciliation and incorporation of the data in accordance with Paragraph (b)(2)(i) and (ii), (b)(2)(iii)(B) -(D), and (b)(2)(iv). *Numerator= # scenarios with correctly reconciled Allergies, Medications, and Problems* *Denominator = # scenarios tested for import and reconciliation of Allergies, Medications, and Problems*	170.315(b)(2)		6/6 = 100%	NA
Successful creation, transmission, and receipt of the A04, A03, A08, and A01 messages. *Numerator= # of correct data elements in HL7 messages for each scenario* *Denominator = # of data elements expected in HL7 messages for each scenario tested*	170.315(f)(2)		585/618= 94.6%	NA
Successful creation, transmission, and receipt of the ORU messages in the format that conforms to HL7 Version 2.5.1 and IHTSDO SNOMED CT® International Release July 2012. *Numerator= # of correct data elements in HL7 message for scenarios with expected results* *Denominator = # of expected data elements in HL7 message for scenario tested*	170.315(f)(3)		60/66 = 91%	NA

KEY MILESTONES

Key Milestone	Care Setting	Date/Timeframe
Release of documentation for the Real World Testing to be provided to authorized representatives and providers running JESS v3.1. This includes surveys, specific instructions on what to look for, how to record issues encountered, and Customer Agreements.	Ambulatory - Emergency Department/Urgent Care	December 1, 2021
Begin collection of information as laid out by the plan.	Ambulatory - Emergency Department/Urgent Care	Not done due to misunderstanding as product was withdrawn; testing completed in pre-prod environment due to no active clients
Meet with previously identified providers and authorized representatives to ensure that Real World Testing protocols are effective.	Ambulatory - Emergency Department/Urgent Care	Not done due to misunderstanding as product was withdrawn; testing completed in pre-prod environment due to no active clients
Follow-up with providers and authorized representatives to understand any issues arising with the data collection.	Ambulatory - Emergency Department/Urgent Care	Not done due to misunderstanding as product was withdrawn; testing completed in pre-prod environment due to no active clients
Data collection and review.	Ambulatory - Emergency Department/Urgent Care	3/8/23 – 3/10/23 - Testing completed in pre-prod environment
End of Real World Testing period/final collection of all data for analysis.	Ambulatory - Emergency Department/Urgent Care	3/10/23 - Testing completed in pre-prod environment
Analysis and report creation.	Ambulatory - Emergency Department/Urgent Care	Updated results report – 3/10/23
Submit Real World Testing report to ACB (per their instructions).	Ambulatory -	February 1, 2023

	Emergency Department/Urgent Care	

Authorized Representative Name and Title:	Hilary Kloska – Manager, Professional Services	Authorized Representative Phone:	561-402-9621
Authorized Representative Signature:	Hilary Kloska	Date Signed:	3/13/2023