

CY 2022 Real World Testing Plan for MedicaSoft ehr.NXT HealthCenter

Executive Summary

This is the real world test plan for CY 2022 for MedicaSoft’s ehr.NXT HealthCenter Personal Health Record, version 4.1.0. The test plan covers 5 criteria: two are patient-facing, involving patient access to health data or patient-initiated exchange of health data; three involve application access to health data via API. These criteria are tested in three use cases:

Use Case 1 (View, Download, Transmit): A patient uses the HealthCenter application to access her patient record (view), to create and download a CCD containing elements of the patient record (download), and to transmit a CCD containing health record data via Direct Secure Messaging (transmit).

Use Case 2 (Direct Secure Messaging): A patient uses the HealthCenter application to create and send a Direct Secure Message (including the ability to attach a CCD containing elements of the patient record to a message), and to receive and view a Direct Secure Message.

Use Case 3 (Application Access via API): Using the Postman API tool to simulate access by any FHIR-compliant application, an application will initiate requests containing a patient identifier and receive data for the proper data categories.

General Information

Developer Name	MedicaSoft
Product Name	ehr.NXT HealthCenter
Version Number	4.1.0
CHPL ID	15.15.04.04.1930.eHTC.04.00.0.190312
Developer Real World Testing Page URL	www.medicasoftware.com/s/test-plan-healthcenter.pdf

Justification for Real World Testing Approach

Consistent with the ONC’s recommendation that “Real World Testing verify that deployed Certified Health IT continues to perform as intended by conducting and measuring observations of interoperability and data exchange”, this test plan focuses on capturing and documenting usage of the HealthCenter Personal Health Record in use cases that reflect actual end user experience in realistic settings.

The HealthCenter PHR is used to engage patients in their care by providing access to their health records, and to provide tools for secure communication between patients and providers. As such, the Real World Test Plan applies to the patient engagement care setting. The following criteria will be tested:

- 170.315(e)(1) View, Download, Transmit to 3rd party
- 170.315(h)(2) Direct Project, Edge Protocol, and XDR/XDM,
- 170.315(g)(7) Application access - patient selection,
- 170.315(g)(8) Application access - data category request, and

- 170.315(g)(9) Application access - all data request.

In order to test each use case without interfering with production instances and end user Personal Health Information, we will use non-production test environments of customer instances and test patient data. For tests involving API calls, we will use the Postman API tool to demonstrate the operation of the API.

Standards Updates

The ehr.NXT HealthCenter product has not participated in SVAP prior to August 31, 2021; we have no data to include in this section of the Real World Test Plan.

Care Setting

Care Setting	Justification
Patient Engagement	HealthCenter is used by providers or aggregators of health records, as a method of engaging patients in their care by providing access to current health records, capabilities for understanding those records, and tools for communicating with providers.

Overall Expected Outcomes

- Real World Testing will show that HealthCenter provides patients with an easy-to-use method for viewing their health records, for downloading a copy for their own use, and for transmitting selected health records to others that they trust.
- Real World Testing will show that HealthCenter provide patients with an easy-to-use method for sending and receiving Direct Secure Messages; in the course of this real-world use case, the technical protocols underlying the Direct protocol will be verified.
- Real World Testing will show how applications can use a standard API to access various types of healthcare data.

Measures Used

The following section outlines the measure that demonstrates conformance to the 170.315(e)(1) “View, download, transmit to a 3rd party” certification criterion.

Measure 1, Use Case 1 (View, Download, Transmit):

This measure will verify that patients, using real world workflows, can easily view health records, download health records, and transmit health records to others they trust.

Justification: The HealthCenter PHR provides a broad set of capabilities that make it easy for patients to work with their health records. A number of easy-to-use widgets are available for viewing health record data. HealthCenter makes it easy for patients to download their health records. And HealthCenter provides a simple interface that allows patients to send and receive

Direct Secure Messages without unnecessary technical complexity. This measure demonstrates that real world patient workflows using HealthCenter address the certification criterion.

Test Methodology: A test patient account containing non-PHI test data will be used. A tester will log in to a HealthCenter test patient account, navigate to view multiple parts of the health record data, download a CCD, and send a CCD attached to a Direct Secure Message to a test provider address.

Expected Outcomes: It is expected that the tester's experience with a test patient account will mirror the patient experience, where patients are able to interact with their health records and accomplish view, download, and transmit tasks.

The following section outlines the measure that demonstrates conformance to the 170.315(h)(2) Direct Project, Edge Protocol, and XDR/XDM certification criterion.

Measure 2, Use Case 2 (Direct Secure Messaging):

This measure will verify that patients, using real world workflows, can easily send and receive Direct Secure Messages; these actions will validate that the Direct protocol is properly implemented and integrated.

Justification: The HealthCenter PHR provides a patient-friendly method of creating, sending, receiving, and viewing Direct Secure Messages. This measure demonstrates, using real world patient workflows using HealthCenter, that HealthCenter properly implements Direct protocols and integration.

Test Methodology: A test patient account containing non-PHI test data will be used. A tester will log in to a HealthCenter test patient account and use the messaging function to create and send a Direct Secure Message, including the attachment of health record data. Test messages will be sent to the test patient account and the tester will use the HealthCenter messaging function to receive and view secure messages.

Expected Outcomes: It is expected that the tester's experience with a test patient account will mirror the patient experience, where patients are able to send and receive Direct Secure Messages.

The following section outlines the measure that demonstrates conformance to the 170.315(g)(7) Application access - patient selection, 170.315(g)(7) Application access – data category request, and 170.315(g)(7) Application access – all data request certification criterion.

Measure 3, Use Case 3 (Application Access to Data):

This measure will verify that applications can access health data via API.

Justification: The HealthCenter PHR provides an open FHIR API that allows applications to retrieve patient identifiers and retrieve health data associated with an identified patient. Using Postman, and API tool, allows the tester to simulate access by any application that implements a standard FHIR API.

Test Methodology: Using test patient data and the Postman API tool, the tester will use API queries to retrieve patient identifiers and retrieve patient data by data category as well as


retrieving all patient data. The tester will perform queries for three patients to show that the access works uniformly well independent of any single patient identifier or patient record.

Expected Outcomes: It is expected that the tester's experience using Postman will simulate the experience that an application would have in querying the HealthCenter API, and that correct patient identifiers and health data are returned from the API.

Schedule of Key Milestones

Key Milestone	Care Setting	Date/Timeframe
View, Download Transmit testing	Patient Engagement	February 2022
Direct Secure Messaging testing	Patient Engagement	April 2022
Application Access testing	Patient Engagement	May 2022

Attestation

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