

Test Procedure for §170.314(b)(3) Electronic Prescribing

This document describes the test procedure for evaluating conformance of EHR technology to the certification criteria defined in 45 CFR Part 170 Subpart C of the Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule. The document¹ is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at <http://www.healthit.gov/certification> (navigation: 2014 Edition Test Method). The test procedures may be updated to reflect on-going feedback received during the certification activities.

Questions or concerns regarding the ONC HIT Certification Program should be directed to opentestmethod@ainq.com

DEPENDENCY REQUIREMENTS

Related §170.314 2014 Edition electronic health record certification criteria.

The Secretary adopts the following certification criteria for EHR technology. EHR technology must include the capability to perform the following functions electronically, unless designated as optional, and in accordance with all applicable standards and implementation specifications adopted in this part:

(g1) Automated Numerator Recording

(g2) Automated Measure Calculation

SCENARIO TESTING

[For this section, feedback should include methods for product testing such as entering medications. The data should be designed so that the number of patients used and data entered helps to build historic data for other criteria, if applied for certification. For modular products, where vendors are not applying for criteria that helps to build the test data, vendors could preload some data prior to the test.

The derived test requirement sections should not contain repetitive content, for example vendor information (VE), test procedure (TE), and inspection test guide (IN) all repeat the [requirements](#).]

INFORMATIVE TEST DESCRIPTION

[This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.]

This test evaluates the capability for an EHR technology to electronically create prescriptions and prescription-related information for electronic transmission using the NCPDP SCRIPT version 10.6; and using the RxNorm vocabulary standard. The test procedure incorporates both the EDIFACT and XML versions of NCPDP SCRIPT.

The test procedure is organized into one section:

- **Create**—evaluates the capability of the EHR technology to electronically generate conformant NCPDP and RxNorm prescriptions and prescription related information for electronic transmission

¹ Disclaimer: Certain commercial products may be identified in this document. Such identification does not imply recommendation or endorsement by ONC.

Commented [1]: If we wanted to do a scenario-based test for eRx, would it be worthwhile to pull in other criteria? Could this be something valuable to explore as proof of concept?

CPOE, drug formulary, drug allergy, CDS, med rec

Commented [2]: If you're just doing eRx, used unit-based. Scenario-based for opt out parts (med list, drug allergy, CPOE, etc.)

- o Using the Vendor-identified EHR function(s), the Tester inputs the provided prescription information test data for the test patients (input can be performed using a manual or automated process)
- o Using the Vendor-identified EHR function(s) and the ONC-supplied test data, the Tester causes the EHR to generate the indicated prescription information message using the NCPDP SCRIPT version 10.6 and the RxNorm vocabulary standard
- o The Tester verifies that the NCPDP SCRIPT version 10.6 conformance requirements tested are met and that the RxNorm codes are appropriate for the prescription information message

TEST DATA

[Contents and description of this section are to be determined by the work group. If, like the current test procedure, there is a test story and test data specification, then a section on describing the use of the test data may be required.]

[Current Test Data](#) *[Work group invited to edit/leave feedback.]*

CONFORMANCE TEST TOOLS

[Use of the NIST test tool is considered the default, but if there is another test tool that you would like to use please describe it here.]

The following testing tools are available to evaluate conformance to the standards referenced in this test procedure:

- o ePrescribing Validation Tool: SCRIPT 10.6 – NIST provides an SCRIPT 10.6 validation tool using XML or EDI designed specifically to support this test procedure. The tool is available as a Web Application
- o The application can be downloaded for local installation
- o The web application validation service is available at: <http://erx-testing.nist.gov>

Support for these tools is available by submitting [questions](#) to the following user's group: <https://groups.google.com/d/forum/erx-testing-tool>.

Commented [3]: Look into Surescripts test tool?

SPECIAL CONSIDERATIONS

- Testing of this criterion that involves use of a third party e-prescribing transaction service will very likely result in demographic-related errors in the transactions being inspected by the NIST E-Prescribing Validation tool. Special focus should be given to make sure that drug information is accurate and without errors.

REFERENCED STANDARDS

§170.205 Content exchange standards and implementation specifications for exchanging electronic health information.

Regulatory Referenced Standard

The Secretary adopts the following content exchange standards and associated implementation specifications:

2014 Open Test Method
Test Procedure for §170.314(b)(3) Electronic Prescribing

(b) Electronic prescribing.

(2) Standard. NCPDP SCRIPT Standard, Implementation Guide, Version 10.6 (incorporated by reference in §170.299).

§170.207 Vocabulary standards for representing electronic health information.

Regulatory Referenced Standard

The Secretary adopts the following code sets, terminology, and nomenclature as the vocabulary standards for the purpose of representing electronic health information:

(d) Medications.

(2) Standard. RxNorm, a standardized nomenclature for clinical drugs produced by the United States National Library of Medicine, August 6, 2012 Release (incorporated by reference in §170.299).

CERTIFICATION CRITERIA

[§170.314\(b\)\(3\) Electronic prescribing.](#)

2014 EDITION PREAMBLE LANGUAGE

Additional information about this certification criterion can be found in Section III.A of the preamble of the [Health Information Technology: Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology, 2014 Edition; Revisions to the Permanent Certification Program for Health Information Technology, Final Rule \(September 4, 2012\).](#)

CHANGES FROM 2011 TO 2014 EDITION

The 2014 edition of this certification criterion is classified as new in the inpatient setting and revised in ambulatory setting from the 2011 edition.

Document History

| Version Number | Description of Change | Date Published |
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