Testing Tool Supplement: 170.314(b)(7) Data Portability

Last Updated: September 27, 2012

The CCDA validation, implemented through the MDHT project at http://www.openhealthtools.org is a product of Open Health Tools and ONC. NIST provides only the runtime platform to make this tool available to the public. Questions regarding the output of this tool should be directed to kevin.brady AT nist DOT gov

Overview and Tool Instructions:

This document is designed to guide EHR vendors and ATLs through the process of testing a System Under Test ("SUT") for conformance to the MU2 criteria for "Ambulatory setting only – data portability" also known as "170.314(b)(7)". The primary tool used in this test is the "NIST Transport Testing Tool" referred to henceforth as the "TTT".

The goal of this test is to certify that an EHR, or EHR module, is capable of producing an export of patient information in HL7 CCDA Data Portability format. A SUT must have the ability to export information in the aforementioned CCDA format to meet this criterion. To facilitate this test, test data has been provided in a human-readable format.   The data portability CCDA record shall be entered into the SUT by the Tester according to a SUT-specific test procedure. The Tester will then invoke the SUT-specific operation to create/export the patient information. This process will result in one CCDA document for each patient contained in the test data.

Multiple browsers may be used to access this tool; if the tool does not load completely using Internet Explorer 8 or Internet Explorer 9, alternative browsers such as Firefox, Google Chrome, or Safari are recommended.

The TTT service is running on port 9100. If your firewall blocks HTTP traffic on any port other than 80 (or 443 for HTTPS), this tool may not be accessible. Please retry access from a location without a firewall that blocks these ports.

The Tester will then select the resulting CCDA files for inspection using TTT.   The following steps outline the process.

1.) Create patient records using ONC and Vendor-supplied test data for 170.314(b)(7).
2.) Invoke the SUT's export function to produce CCDA documents for each test patient.
3.) Navigate to the TTT main page.
4.) Click "Message and CCDA document validators".
5.) Under the heading, "CCDA Document Validator", select "Data Portability – MU2 – 170.314(b)(7) – Data Portability".
6.) Select a corresponding CCDA, generated by the SUT, from the file system using the "Choose File" button.

7.) Click the "Validate" button to upload and process the file. The validation summary may take up to one minute to complete. The results will appear on the same page, below. Errors are in red text, warnings are in blue text, and information is in black. (Please note that clicking "Validate" again before the process has completed will trigger and error.)

8.) Immediately following the "Validate" button, View the output onscreen to determine conformance.

    a. If the test is successful, there will be an indication of "Summary: No errors were found"

    b. If the test resulted in error, there will be an indication of "Summary: Errors were found" displayed red in color

TTT Known Errors

There are the following known errors in the current release of the TTT that will be addressed in subsequent tool release(s):

92|Mu2consol Functional Status Section SHALL satisfy: cognitiveStatus   error

TTT Tool Development Status and Releases:

The TTT tool is under ongoing development to support additional 2014 EHR certification criteria. The release and publishing of this tool for public comment is intended for use of the tool for CCDA Document Validation for "Data Portability – MU2 170.314(b)(7) – Data Portability" and "Clinical Office Visit Summary - MU2 170.314(e)(2) - Clinical Summary" only. Although other capabilities are visible within the tool, and may be accessed, they are not intended for use and are under development.

ONC's release strategy and approach for publishing of the TTT Tool is to continue to publish updated releases on an ongoing basis to obtain timely feedback and support timely resolution of identified issues as well as development of expanded functionality.

CCDA Validator Release Notes – 9/27/2012

The following are known validation issues that exist in the MU Stage 2 CCDA Validator.

- Functional Status validation error due to the absence of Cognitive Status template for valid reasons.
- Preferred Language values are not being validated currently.
- Transitions of Care and View, Download, Transmit Ambulatory validations incorrectly looking for discharge medications.

- Documentation of Service Event looking for only one Performer with typecode "PRF" while Care Team Members could potentially have multiple ones. (This might actually just be a fix to the Sample XML file).