



The Office of the National Coordinator for
Health Information Technology

C-CDA Scorecard with “One-Click Score”

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Background

How do we improve the quality of data captured and exchanged?

Broad impacts of data quality

- » Affects Patient
 - Decision making (Personalized treatment), Duplicate tests
- » Affects Population
 - Types of treatments and their effects, Research and new treatment discoveries

Background

C-CDA is the adopted ONC 2014/2015 Edition standard for exchanging Transitions of Care documents

Built on highly flexible HL7 CDA standard

C-CDA is a large implementation guide with many different options and variations for data representation

- For e.g. Representing Name, Birth Sex, Lab Tests, Devices implemented, No Known Problems

Improving Data Quality: C-CDA Scorecard

Scorecard provides a mechanism to quantitatively measure and improve the interoperability and data quality of C-CDA documents created for exchange

- » Evaluates structured data in C-CDA documents
- » Uses Scoring criteria developed by HL7 and the industry
- » Can be used by both health IT vendors and Providers implementing health IT
- » Is an open source tool that can be installed, configured and optimized locally to improve C-CDA data quality

Demonstration

C-CDA Scorecard (Beta Release)

Run the Scorecard

[Try Me!](#) High scoring sample ▾

Run:

1. Select your C-CDA Document.
[+ Select](#) **Please select a C-CDA file.*
2. Click Score.
[✔ Score](#)

Learn

- [Scorecard Introduction and Release Notes](#)
- [How to Interpret the Scorecard Results](#)

Implement

- [Scorecard API and External Tool Instructions](#)
- [Download the Scorecard for Local Instantiation](#)

PHI Note: The C-CDA Scorecard does not retain your submitted C-CDA file as the file is deleted from the server immediately after processing. However, we strongly suggest that you do not include any Protected Health Information (PHI) or Personally Identifiable Information (PII) in your C-CDA file submissions to the Scorecard. [Click here](#) for more information on how to de-identify PHI.

www.healthit.gov/scorecard

Scorecard Results

The screenshot displays the ONC Scorecard results for a CCD. The main summary shows a Scorecard Grade of **A-** and a Score of **94 / 100**. A callout bubble explains that the score is compared to an industry average of **C**. Below this, it states that the industry average is the average of all grades for C-CDAs scored by the ONC Scorecard since June 2016, with 1144 documents graded.

Other key metrics include 20 Scorecard Issues, 1 C-CDA IG Conformance Error, and 4 2015 Edition Certification Feedback items. A callout bubble notes that this identifies where data representation can be improved beyond conformance.

The detailed results are organized by clinical domains, as noted by another callout bubble. The domains and their scores are:

Miscellaneous: A+ (0)	Problems: A+ (5)	Allergies: Certification Feedback (1)
Patient: A+ (0)	Lab Results: A+ (3)	Immunizations: Certification Feedback (2)
Social History: A+ (0)	Vital Signs: B- (12)	Encounters: Conformance Errors (1)
Procedures: A+ (0)	Medications: Certification Feedback (1)	

A callout bubble specifically points to the Vital Signs domain, stating it identifies (structure and semantic) implementation errors that need to be eliminated. At the bottom, a button labeled "Click Here For Detailed Results" is visible.

Access the Scorecard

Online www.healthit.gov/scorecard

Manually upload documents to SITE and get scoring results

- » Business Analysts building systems (health IT vendors)

Use RESTful APIs to submit documents and get scoring results

- » Health IT vendors can integrate into their System Development and Verification Processes automatically

“One Click Score” using Direct Transport

- » Providers/Implementers can submit documents with PHI from their workflows and receive scoring results via Direct Messages
- » scorecard@direct.hhs.gov (Not active yet, but available very soon)
- » ccdascocard@direct.sitenv.org (Active currently)

If you can't measure it, you can't improve it.

- Lord Kelvin

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