



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:

- Select your C-CDA Document.

+ Select

*Please select a C-CDA file.
- 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 shows the ONC Scorecard results for a CCD. The main score is A- with a score of 94/100. A callout bubble explains that this score is compared to an industry average of C. Below the main score, there are four categories: Scorecard Issues (20), C-CDA IG Conformance Errors (1), and 2015 Edition Certification Feedback (4). A callout bubble notes 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. Below this, a paragraph explains that detailed grades and issue counts for each section are shown in a grid of colored boxes. A callout bubble points to this grid, stating it identifies structure and semantic implementation errors. At the bottom, a callout bubble points to a button labeled 'Click Here For Detailed Results', noting that the information is organized by clinical domains.

Scorecard Grade:	A-	Your CCD scored a A- compared to an industry average of C . Industry average is the average of all grades for C-CDAs that have been scored by the ONC Scorecard. It is computed on an on-going basis, since June 2016, when the Scorecard tool was first made available to users. Since then, 1144 documents have been graded by the ONC Scorecard.
Scorecard Score:	94 / 100	
Scorecard Issues:	20	
C-CDA IG Conformance Errors:	1	
2015 Edition Certification Feedback:	4	

Detailed grades and the number of issues for each of the sections of information present in your document are shown below. You can use it to quickly identify areas within the document that require the most attention. Click on each of the boxes to navigate to the appropriate part of the report that contains additional details on the identified issues.

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)	

[Click Here For Detailed Results](#)

Quantitative Grade and Score, comparison to industry

Identifies where data representation can be improved beyond conformance

Identifies (structure and semantic) implementation errors that need to be eliminated

Organized by clinical domains

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
- » <https://sitenv.org/scorecard/ccdascorecardservice2>

“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)
- » ccdascorecard@direct.sitenv.org (Active currently)

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

- Lord Kelvin

Contact Information

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