
CDA Validator, version 1.12
Release notes**Version update**

Version 1.12 of the CDA Validator was released on 13 July 2012 for developers and testers to validate the conformance of health software.

Updated versions of the following products have been incorporated into the CDA Validator:

- Schematron libraries for document types supported in version 1.11 of the CDA Validator;
- Australian Clinical Document Architecture (CDA) schema;
- CDA Packaging Library (.net version);
- NEHTA Generic Style Sheet;
- Australian Medicines Terminology (AMT);
- Systematised Nomenclature of Medicine - Clinical Terms, Australian extension (SNOMED CT-AU);
- Schematron libraries to assess the conformance of Medicare documents; and
- A facility to assess whether the data in clinical documents is consistent with clinical document test data.

Versions of SNOMED CT-AU and AMT that are more than six months old have been removed in accordance with the SNOMED CT-AU and AMT licence agreement.

New features and tools have been incorporated into the CDA Validator:

- Schematron libraries for document types created by consumer portals; and
- Validation of digital signatures.

The data checking tool in version 1.12 of the CDA Validator is now fully developed and may be used to check five types of documents created by clinical information systems (Discharge Summary, eReferral, Shared Health Summary, Event Summary and Specialist Letter).

Rationale for this release

This new version of the CDA Validator provides greater coverage of existing specifications for clinical information systems. In addition it provides coverage of the newly finalised specifications for documents issued by the Department of Human Services – Medicare. It also provides, for the first time, the ability to validate documents created by consumer portals.

New tools that allow the validation of digital signatures and clinical document attachments have been added. There is also a tool to assist with the manual inspection of clinical documents for data elements with unexpected values.

The schematron libraries that are being integrated into the PCEHR System to better support the ability of clinical information systems to upload and download documents from a person's health record have been included in version 1.12 of the CDA Validator. Before a clinical information system may be granted access to the production PCEHR System, version 1.12 of the CDA Validator must be used to test the conformance of the software.

Scope

The CDA Validator has tools to perform the following checks:

1. Conformance of a clinical document to a specification for the document's syntax;
2. Checking that AMT and SNOMED CT-AU clinical terminology in a document is correct;
3. Validating digital signatures; and

4. Checking the content of data elements.

The CDA Validator is able to validate the following types of documents:

1. Documents created by clinical information systems: Discharge Summary, eReferral, Specialist Letter, Event Summary and Shared Health Summary;
2. Documents created by consumer portals: Consumer Entered Notes, Consumer Entered Health Summary and Advance Care Directive Custodian Record; and
3. Documents created by the Department of Human Services – Medicare: Australian Childhood Immunisation Register, Australian Organ Donor Register, Pharmaceutical Benefits Report and Medicare/DVA Benefits Report.

Component products of version 1.12 of the CDA Validator

Item	Version	Date of publication	Source
Schematron libraries			
ACD CR Schematron Library	v1.0	13 Jul 12	eHealthCollaborate website: test interest group/restricted documents/clinical document development and testing
ACIR Schematron Library	v1.2	13 Jul 12	
AODR Schematron Library	v1.2	13 Jul 12	
CEHS Schematron Library	v1.0	13 Jul 12	
CEN Schematron Library	v1.0	13 Jul 12	
Discharge Summary Schematron Library	v1.4	13 Jul 12	
eReferral Schematron Library	v1.4	13 Jul 12	
Event Summary Schematron Library	v1.4	13 Jul 12	
Medicare DVA Benefits Report Schematron Library	v1.2	13 Jul 12	
PBR Schematron Library	v1.2	13 Jul 12	
Shared Health Summary Schematron Library	v1.4	13 Jul 12	
Specialist Letter Schematron Library	v1.4	13 Jul 12	
Clinical terminology reference sets			
AMT reference sets	v2.33, v2.32, v2.31, v2.30, v2.29, v2.28	29 Jun 12 25 May 12 30 Apr 12 30 Mar 12 9 Mar 12 28 Feb 12	https://nehta.org.au/aht
SNOMED CT-AU reference set	May 12	31 May 12	
Clinical document test data			
Clinical Document Test Data for Discharge Summary Consumers	1.2	13 Jul 12	eHealthCollaborate website: test interest group/restricted documents/clinical document development and testing
Clinical Document Test Data for eReferral Consumers	1.2	13 Jul 12	
Clinical Document Test Data for Event Summary Consumers	1.2	13 Jul 12	
Clinical Document Test Data for Shared Health Summary Consumers	1.2	13 Jul 12	
Clinical Document Test Data for Specialist Letter Consumers	1.2	13 Jul 12	
Other items			
Australian CDA Schema	3.0	1 Jun 12	www.nehta.gov.au/vendors
CDA Packaging Library (.net version)	1.3.5	10 Jul 12	
HL7 MDM Library (.net version)	1.0.4	27 Mar 12	
NEHTA Generic Style Sheet	1.1.11	6 Jul 12	

Note: Each schematron library contains a number of templates and each template corresponds to a CDA level of conformance. For some types of clinical documents, templates are only provided for CDA conformance levels allowed by the PCEHR System. The Shared Health Summary and Event Summary libraries contain templates for conformance levels that are not allowed by the PCEHR System but only templates for allowed CDA conformance levels should be loaded into the PCEHR test and operational environments.

Derivation

The following table lists the specifications used to derive schematron libraries for documents created by clinical information systems (eReferral, Discharge Summary, Specialist Letter, Shared Health Summary and Event Summary).

Item	Version	Date	Source
e-Discharge Summary CDA Implementation Guide	3.4	7 Mar 12	https://vendors.nehta.gov.au
e-Discharge Summary Structured Document Template	3.3	2 Dec 11	
e-Referral CDA Implementation Guide	2.2	7 Mar 12	
e-Referral Structured Content Specification	2.1	7 Dec 11	
Event Summary CDA Implementation Guide	1.2	7 Mar 12	
Event Summary Structured Content Specification	1.1	30 Nov 11	
Shared Health Summary CDA Implementation Guide	1.3	7 Mar 12	
Shared Health Summary Structured Content Specification	1.1	30 Nov 11	
Specialist Letter CDA Implementation Guide	1.3	7 May 12	
Specialist Letter Structured Content Specification	1.1	2 Dec 11	
The following specifications also apply to eReferral, Discharge Summary, Specialist Letter, Shared Health Summary and Event Summary			
CDA Package	1.0	30 Nov 11	https://vendors.nehta.gov.au
CDA Rendering Specification: Clinical Documentation	1.0	7 Mar 12	
Common Conformance Profile for Clinical Documents	1.3	17 May 12	
NullFlavor Usage Clarification FAQ			To be published on www.nehta.gov.au/vendors

The following table lists the specifications used to derive schematron libraries for documents created by consumer portals (Advance Care Directive Custodian Record, Consumer Entered Health Summary and Consumer Entered Notes).

Item	Version	Date	Source
Advance Care Directive Custodian Record CDA Implementation Guide	1.0	9 Dec 11	https://vendors.nehta.gov.au
Advance Care Directive Custodian Record CDA Implementation Guide: Appendix A. Addendum for Advance Care Directive Custodian Record CDA Implementation Guide Version 1.0 — 9 Dec 2011		27 Jun 12	
Advance Care Directive Custodian Record CDA Implementation Guide: second addendum			To be published on https://vendors.nehta.gov.au
Advance Care Directive Custodian Record Structured Content Specification	1.0	9 Dec 11	https://vendors.nehta.gov.au
Consumer Entered Health Summary CDA Implementation Guide	1.0	16 Dec 11	
Consumer Entered Health Summary CDA Implementation Guide: Appendix A. Addendum for Consumer Entered Health Summary CDA Implementation Guide Version 1.0 — 16 Dec 2011		27 Jun 12	
Consumer Entered Health Summary CDA Implementation Guide: second addendum			To be published on https://vendors.nehta.gov.au
Consumer Entered Health Summary Structured Content Specification	1.0	15 Dec 11	https://vendors.nehta.gov.au
Consumer Entered Notes CDA Implementation Guide	1.0	21 Dec 11	
Consumer Entered Notes CDA Implementation Guide: Appendix A. Addendum for Consumer Entered Notes CDA Implementation Guide Version 1.0 — 21 Dec 2011		27 Jun 12	
Consumer Entered Notes CDA Implementation Guide: second addendum			To be published on https://vendors.nehta.gov.au
Consumer Entered Notes Structured Content Specification	1.0	19 Dec 11	https://vendors.nehta.gov.au
<i>The following specifications also apply to Advance Care Directive Custodian Record, Consumer Entered Health Summary and Consumer Entered Notes</i>			
CDA Package	1.0	30 Nov 11	https://vendors.nehta.gov.au
CDA Rendering Specification: Clinical Documentation	1.0	7 Mar 12	

Common Conformance Profile for Clinical Documents	1.3	17 May 12	
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The following table lists the specifications used to derive schematron libraries for documents created by the Department of Human Services – Medicare (Medicare/DVA Benefits Report, Australian Childhood Immunisation Register, Australian Organ Donor Register and Pharmaceutical Benefits Report).

Item	Version	Date	Source
Medicare/DVA Benefits Report CDA Implementation Guide	1.1	19 Jun 12	To be published on https://vendors.nehta.gov.au
Medicare/DVA Benefits Report Structured Content Specification	1.1	18 Jun 12	
Australian Childhood Immunisation Register CDA Implementation Guide	1.1	19 Jun 12	
Australian Childhood Immunisation Register Structured Content Specification	1.1	25 Jun 12	
Australian Organ Donor Register CDA Implementation Guide	1.1	19 Jun 12	
Australian Organ Donor Register Structured Content Specification	1.1	18 Jun 12	
Pharmaceutical Benefits Report CDA Implementation Guide	1.1	1 Jun 12	
Pharmaceutical Benefits Report Structured Content Specification	1.1	18 Jun 12	
<i>The following specifications also apply to Medicare/DVA Benefits Report, Australian Childhood Immunisation Register, Australian Organ Donor Register and Pharmaceutical Benefits Report</i>			
CDA Package	1.0	30 Nov 11	https://vendors.nehta.gov.au
CDA Rendering Specification: Clinical Documentation	1.0	7 Mar 12	
Common Conformance Profile for Clinical Documents	1.3	17 May 12	

Support

For further support or to provide feedback, please email the NEHTA Service Desk at nehtasupport@nehta.gov.au.

Future releases

Future releases of the CDA Validator will provide:

- Support for new types of clinical documents as specifications for these documents become finalised;
- More automation of software tests that are now performed manually;
- Increased coverage of specifications for document types supported by the most recent version of the CDA Validator.

Future releases of the CDA Validator will be planned. Users will be informed of proposed new features so that their impact and benefits may be evaluated before development commences.

As well as planned releases, maintenance releases of the CDA Validator will be provided as needed, in response to issues identified by users.