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# Clinical Documents Integration Toolkit Release Note

8 November 2021 v1.9
Approved for internal information
Document ID: DH-3544:2021

## Related end product identifier: EP-3546:2021

### Release rationale

Version 1.9 of the Clinical Documents Integration Toolkit provides improvements for the following product component:

- Australian Digital Health Agency CDA Schema Extension 3.0.

Developers using any this product should consider using this latest version, as they resolve a number of potential compatibility issues, including support for new or updated clinical document types.

Please refer to the Change Details section below for more detailed information about the changes included in this release.

## Package inclusions

### Updated (supersedes previous version)

| Identifier | Name and version |
|---|---|
| DH-3491:2021 | *Australian Digital Health Agency CDA Schema Extension 3.0 - CDA Schema v20201203* |
| DH-3545:2021 | *Australian Digital Health Agency CDA Schema Extension 3.0 - Compilable CDA Schema v20201203* |
| DH-3544:2021 | *Clinical Documents Integration Toolkit - Release Note v1.9* (this document) |

### Unchanged

| Identifier | Name and version |
|---|---|
| DH-2916:2020 | *Clinical Document Library – Java Sample Code v1.2.2* |
| DH-2920:2020 | *Clinical Document Data Extractor Library - .NET Sample Code v1.9.0* |
| DH-2915:2020 | *Clinical Document Library - .NET Sample Code v4.6.2* |
| DH-2914:2020 | *Clinical Document Library - Product Data Sheet v1.6* |
| DH-2917:2020 | *Generic Clinical Document Style Sheet – Style Sheet No CSS v1.6* |
| DH-2918:2020 | *Generic Clinical Document Style Sheet – Style Sheet with CSS v1.6* |
| NEHTA-2130:2015 | *Clinical Document Data Extractor Library - Product Data Sheet v1.1* |
| DH-2627:2018 | *Clinical Document Packaging Library - .NET Sample Code v1.5.4* |
| NEHTA-2154:2013 | *Clinical Document Packaging Library - Java Sample Code v1.2.3* |
| NEHTA-2131:2015 | *Clinical Document Packaging Library – Product Data Sheet v1.2* |
| DH-2466:2017 | *Generic Clinical Document Style Sheet - Product Data Sheet v1.3* |
| NEHTA-1611:2014 | *Prescription and Dispense View Style Sheet - Product Data Sheet v1.1* |
| NEHTA-1609:2013 | *Prescription and Dispense View Style Sheet – Style Sheet No CSS v1.1.0* |
| NEHTA-1610:2013 | *Prescription and Dispense View Style Sheet – Style Sheet with CSS v1.1.0* |

# Change details

## CDA Schema Extension 3.0 v20201203

| Type | Change |
|---|---|
| Enhancement | • Added Schema extension to support the PSML v2.0 document type |

## Audience

- Developers of software applications generating or displaying CDA documents;
- Senior managers and policy makers, clinical experts, health information managers, IT operations and support teams and system integrators.

## Support

For further support or to provide feedback, please email the Agency Help Centre at help@digitalhealth.gov.au or phone 1300 901 001. Your views on the scope and usability of the Clinical Documents Integration Toolkit will inform future releases.

## Future Releases

The Clinical Documents Integration Toolkit will be released on an ad-hoc basis, based on providing new functionality or other changes as required.

## Previous Releases

| Date | Version |
|---|---|
| 3 Aug 2020 | EP2912:2020 Clinical Documents Integration Toolkit v1.8<br>Release note<br>**Release rationale**<br>Version 1.8 of the Clinical Documents Integration Toolkit provides improvements and defect fixes for the following sample code products:<br>• Australian Digital Health Agency CDA Schema Extension 3.0.<br>• Generic Clinical Document Style Sheet<br>• Clinical Document Library<br>• Clinical Document Data Extractor<br>• Clinical Document Packaging Library |
| 24 Apr 2018 | EP2344:2016 Clinical Documents Integration Toolkit v1.7<br>Release note<br>**Release rationale**<br>Version 1.7 of the Clinical Documents Integration Toolkit provides improvements and defect fixes for the following sample code products:<br>• Generic Clinical Document Style Sheet<br>• Clinical Document Library<br>• Clinical Document Data Extractor Library<br>• Clinical Document Packaging Library<br>• Australian Digital Health Agency CDA Schema Extension 3.0. |

<table>
<tr><th>Date</th><th>Version</th></tr>
<tr><td>10 Jan 2017</td><td>EP2344:2016 Clinical Documents Integration Toolkit v1.6<br>Release note<br>Release rationale<br>Version 1.6 of the Clinical Documents Integration Toolkit provides important updates for the following sample code products:<ul><li>Generic Clinical Document Style Sheet v1.3</li><li>Clinical Document Library - .NET Sample Code v4.3.1</li></ul>The new version of the style sheet provides the following improvements:<ul><li>Support for Australian Immunisation Register (AIR) documents;</li><li>Resolution of conformance issues;</li><li>Improvements for the rendering of non-conformant narrative mark-up;</li><li>Rendering support for consumer-facing applications.</li></ul>The new version of the Clinical Document Library provides a number of defect fixes, most prominently a permanent workaround for a memory leak issue caused by an underlying Windows component.</td></tr>
<tr><td>20 Jun 2016</td><td>EP-2344:2016 Clinical Documents Integration Toolkit v1.5.2<br>Release note<br>Release rationale<br>Version 1.5.2 of the Clinical Documents Integration Toolkit provides an update to the Clinical Document Library to address a number of defects and limitations that are listed below.
<table>
<tr><th>ID</th><th>Change</th></tr>
<tr><td>IPCDOCS-29</td><td>Narrative support for multiple reporting pathologists and document authors</td></tr>
<tr><td>IPCDOCS-32</td><td>Two alternatives for RecommendationOrChange now have different values</td></tr>
<tr><td>IPCDOCS-33</td><td>OtherDiagnosisEntries now displaying when no Diagnoses is included</td></tr>
<tr><td>IPCDOCS-34</td><td>ServiceCommencementWindow and ServiceScheduled can now be used together</td></tr>
<tr><td>IPCDOCS-37</td><td>Nullflavor support for authors, requesting organisations, anatomical location</td></tr>
<tr><td>IPCDOCS-49</td><td>Support optionality of Related Image fields</td></tr>
<tr><td>IPCDOCS-50</td><td>Support Medicare numbers without IRN</td></tr>
<tr><td>IPCDOCS-51</td><td>Support for rendering multimedia items as separate paragraphs</td></tr>
<tr><td>IPCDOCS-52</td><td>Indigenous Status field is now optional for Discharge Summary documents</td></tr>
<tr><td>IPCDOCS-53</td><td>Role field is now optional</td></tr>
<tr><td>IPCDOCS-57</td><td>Maximum number of repeats now stated correctly in generated narrative</td></tr>
</table></td></tr>
</table>

| Date | Version |
|---|---|
| 12 Apr 2016 | EP-2286:2016 Clinical Documents Integration Toolkit v1.5.1<br>Release note<br>**Release rationale**<br>Version 1.5.1 of the Clinical Documents Integration Toolkit provides an update to the *Clinical Document Packaging Library* (Packaging Library) to accommodate a requirement introduced by a security patch for the .NET framework that was published by Microsoft on 8 March 2016.<br>This update addresses an issue that can affect both the creation and extraction of clinical document packages, effectively preventing the exchange of clinical documents with the My Health Record system and transmission or reception via secure messaging.<br>The new .NET requirement has the potential to affect a large number of sites using Windows Vista, 7, 8.1, 10, 2008 or 2012 that have installed the Microsoft security patch published on 8 March 2016. More detailed information is available in the Impacted Systems section below. |
| 5 Aug 2015 | EP-2106:2015 Clinical Documents Integration Toolkit v1.5<br>Release note<br>**Release rationale**<br>Updated Clinical Document Library to support updated specifications (Pathology, Diagnostics, Event Summary, Shared Health Summary and Discharge Summary).<br>Updated Clinical Document Data Extractor to support updated specifications including Adverse Reaction Type.<br>The previously named CDA Validator has been removed and published as a separate product called the Clinical Package Validator.<br>Some of the product component file names have been renamed and the product data sheets updated to acknowledge HL7™[1] and CDA™ trademarks and to meet our HL7™ licencing requirements. |
| 18 Feb 2015 | EP-2041:2015 Clinical Documents Integration Toolkit v1.4<br>Release note<br>**Release rationale**<br>This release includes an updated version of the CDA Document Library v4.1.0 to v4.1.1 to fix a BUG in the narrative generator for the Event Summary only.<br>The code was in the following function of the CDANarrativeGenerator.cs file.<br>`public StrucDocText CreateNarrative(EventDetails eventDetails)`<br>Please update to this version if you have started using v4.1.0 of the library. |
| 20 Jan 2015 | EP-1999:2015 Clinical Documents Integration Toolkit v1.3<br>Release note<br>**Release rationale**<br>This release includes an updated version of the CDA Validator which supports the PCEHR R5 documents Pathology Report and Diagnostic Imaging Report as well as providing the latest terminology databases (which are now user manageable). |

[1] HL7 and CDA are trademarks of Health Level Seven International and are registered with the United States Patent and Trademark Office.

| Date | Version |
|---|---|
| 19 Dec 2014 | EP-1942:2014 Clinical Documents Integration Toolkit v1.2<br>Release note<br>**Release rationale**<br>This release includes an updated version of the CDA Document Library (.net) which supports the PCEHR R5 documents Pathology Report and Diagnostic Imaging Report and a new Java version of the CDA document library which supports a limited set of CDA documents.<br>It also includes an updated Generic Style Sheet to support the two new PCEHR R5 document types, along with a few bug fixes and enhancements.<br>There is a new library which allows the extraction of certain atomic data from CDA documents.<br>Finally the Java CDA packaging library has been updated and aligned with all other Java-based code to support up to Java version 7.2.1. |
| 22 Aug 2014 | EP-1734:2014 Clinical Documents Integration Toolkit v1.1<br>Release note<br>**Release rationale**<br>This release includes the CDA Validator v2.0, which validates a CDA package against the relevant rules in *Conformance Test Specification for CDA Packaging v1.4*.[2]<br>The CDA Validator supports the validation of clinical documents against validation rules contained in template packages. This increases the flexibility of the CDA Validator to deal with different versions of validation rule sets.<br>Note that the schematron libraries bundled with previous versions of the CDA Validator are not included in this version. This removes the need to publish updated versions of the CDA Validator product whenever new or updated sets of validation rules become available. Instead, users can simply load template packages into the CDA Validator as needed. The template packages can be downloaded from the relevant clinical document end product.[3]<br>This version of the CDA Validator can create a test report in Microsoft Word format.<br>The release also includes a product data sheet for the CDA Validator. |

[2] Available from: http://www.nehta.gov.au/implementation-resources/clinical-documents/EP-1094-2011/NEHTA-1331-2012
[3] See: http://www.nehta.gov.au/implementation-resources/clinical-documents

| Date | Version |
|---|---|
| 11 Mar 2014 | EP-1633:2014 Clinical Documents Integration Toolkit v1.0<br>Release note<br>**Release rationale**<br>The eHealth integration toolkits are a collection of integration tools and sample code resources available in both .NET and Java. The sample code and integration tools are used within the eHealth Reference Platform, forming part of the code library for tools and simulators. Access to sample code and the eHealth Reference Platform's online simulator services is supported by suitable right-to-use licenses and terms and conditions regarding the eHealth Reference Platform.[4] (The eHealth integration toolkits are available from http://www.nehta.gov.au/implementation-resources/ehealth-reference-platform.)<br>The Clinical Documents Integration Toolkit contains libraries for the creation of CDA documents, packaging CDA documents and presenting CDA documents through the use of style sheets.<br>Note that the product components included in this release were previously released on nehta.gov.au as part of two end products (Common – Clinical Document and PCEHR Prescription and Dispense View). See page 8 for a mapping of the relevant product component identifiers. |

[4] Notice of Connections (NOC) for HI and PCEHR, and CCA conformance testing for all code, must still be completed by the vendor as per the licence agreement that accompanies each product, which states that it is the vendor's "responsibility to test and validate the use of this product within your software".

## Earlier Releases

Some of the product components in release v1.0, or their earlier versions, were previously released on nehta.gov.au under a different end product, with a different identifier and slightly different name.

The table below shows the mapping between product identifiers, sorted by the old identifier. The highlighted rows indicate that the new identifier is for an updated version of the product component (which supersedes the previous version).

| **Old identifier (previous end product)** | **New identifier (for this end product)** |
|---|---|
| NEHTA-1191:2012 | NEHTA-1599:2014 |
| NEHTA-1192:2012 | NEHTA-1598:2014 |
| NEHTA-1285:2013 | NEHTA-1602:2013 |
| NEHTA-1306:2013 | NEHTA-1610:2013 |
| NEHTA-1358:2013 | NEHTA-1609:2013 |
| NEHTA-1378:2013 | NEHTA-1603:2014 |
| NEHTA-1403:2013 | NEHTA-1605:2014 |
| NEHTA-1408:2013 | NEHTA-1606:2014 |
| NEHTA-1405:2013 | NEHTA-1611:2014 |
| NEHTA-1410:2013 | NEHTA-1601:2014 |
| NEHTA-1487:2013 | NEHTA-1600:2014 |
| NEHTA-1496:2013 | NEHTA-1608:2013 |
| NEHTA-1497:2013 | NEHTA-1607:2013 |

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