Australian Government
Australian Digital Health Agency

Clinical Package Validator Release Note

7 January 2020 v2.8
Approved for external use
Document ID: DH-2905:2020

Related end product identifier: EP-2903:2020

Release rationale

Version 2.8 of the Clinical Package Validator (the Validator) provides important enhancements to external functions used by the Agency's Information Quality Rules (IQ Rules).

Developers and implementers of clinical information systems planning to use the Agency's IQ Rules for the validation of their clinical documents should upgrade to this version of the Validator. This version is required for the execution of IQ Rules from version 1.6.

IQ Rules can be used to perform an in-depth analysis of clinical documents. This complements the structural analysis performed by My Health Record template packages. The Validator supports the parallel execution of IQ Rules and My Health Record template packages. The Agency publishes IQ Rules separately.

For a comprehensive list of all changes and defect fixes, please refer to Change details, below.

Before formally declaring conformity to the System Operator of the My Health Record system, developers need to perform additional tests to ensure full coverage of all requirements. Please refer to the *Clinical Package Validator Product Data Sheet* for more detailed information about the Validator's coverage of requirements and conformance test cases.

Package inclusions

New

None

Updated (supersedes previous version)

Identifier	Name and version
DH-2905:2020	*Clinical Package Validator – Release Note v2.8* (this document)
DH-2902:2020	*Clinical Package Validator – Software Package v2.8*
DH-2904:2020	*Clinical Package Validator – User Guide v2.8*
DH-2906:2020	*Clinical Package Validator – Installation and Configuration Guide v2.8*

Identifier	Name and version
DH-2901:2020	*Clinical Package Validator – Product Data Sheet v2.8*

Removed

None

No change

None

Change details

The following subsections list all changes provided with this release of the Validator.

General changes

Type	ID	Change
Enhancement	CCTT-924	Document type name Pharmacist Curated Medicines List (PCML) renamed to Pharmacist Shared Medicines List (PSML).

Changes to external functions

The Validator provides a set of external functions for use by the Agency's Information Quality (IQ) Rules. This release of the Validator provides the following changes to its external functions.

Type	ID	Change
Enhancement	CCTT-923	New function IsCodeAMemberOfUsingTS to call terminology server using FHIR $subsumes feature.
Defect	CCTT-926	Validator no longer throws an error when IQ rules analysis.xls file is open while trying to run conformance.
Enhancement	CCTT-929	IsCodeAssociatedWithAnotherCode now provides additional information when no code associations have been found. This allows to determine whether the code is active or inactive. A code is treated as inactive when it has not been found in the Validator's database.
Enhancement	CCTT-913	New function FindPreferredTermUsingTS to use the terminology server to return a preferred term.
Enhancement	CCTT-915	New function SearchForCodesInHierarchyUsingTS to search for codes in a hierarchy defined by a root code.
Enhancement	CCTT-916	New function IsCodeInValueDomainValidUsingTS to query the TS with any refset.
Enhancement	CCTT-917	SearchForTermUsingTS now supports all SNOMED CT-AU reference sets for its refset parameter.

Type	ID	Change
Enhancement	CCTT-918	New function SearchForCodesInHierarchyUsingTS to list codes of a specified refset that are a supertype of a specified code. See CCTT-919, CCTT-922.
Enhancement	CCTT-919	New function SearchForCodesInHierarchyUsingTS to list all codes that are a subtype of a specified code. See CCTT-918, CCTT-922.
Enhancement	CCTT-920	FindLatestVersionWhereDisplaynameMatchUsingTS performance improvement: examination of previous SNOMED CT-AU versions now ends with the first version in which the code does not exist.
Enhancement	CCTT-922	New function SearchForCodesInHierarchyUsingTS to list codes of a specified refset that are a subtype of a specified code. See CCTT-918, CCTT-919.
Enhancement	CCTT-925	FindLatestVersionWhereCodeIsActiveUsingTS updated to better support integration with Agency's NCTS server, which holds only a limited number of SNOMED CT-AU versions.
Enhancement	CCTT-927	New function FindLastUpdatedDateForCodeUsingTS to identify when a code's status last changed.
Enhancement	CCTT-928	New function LatestDateForPreferredTerm to identify when a preferred term was last updated.
Enhancement	CCTT-932	SearchForCodesInHierarchyUsingTS updated to use fuzzy matching when looking up codes.

Audience

This document is intended for:

- developers and implementers of clinical information systems
- the System Operator of the My Health Record system
- the National Infrastructure Operator.

Licence

The Agency provides the Clinical Package Validator end product subject to the Software Licence Terms and Conditions contained in the Software Package product component.

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 Validator will inform future releases.

Future releases

The Validator will be released on an ad hoc basis, based on providing new functionality or other changes as required.

Version	Date	Comment
2.7	1 June 2018	EP-2684:2018 Clinical Package Validator v2.7 Release Note **Release rationale** Version 2.7 of the Clinical Package Validator (i.e. Validator) enables software developers to improve the depth and automation of clinical document conformance testing. The new release includes a number of defect fixes and enhancements which will improve the Validator's ability to effectively support implementers in their conformance assessment activities. Additional updates have been added to the Validator's documentation. The Validator introduces call back functions required by advanced Information Quality Rules (IQ Rules). Developers can perform more thorough conformance tests of clinical documents using the latest version of the Agency's IQ Rules. IQ Rules enable developers to perform in-depth analysis of clinical documents that complements the structural analysis performed by standard template packages. The Validator supports the parallel execution of IQ Rules and standard template packages. IQ Rules are published separately by the Agency.
2.6.1	<Not released>	EP-2489:2017 Clinical Package Validator v2.6.1 Release Note **Release rationale** Version 2.6.1 of the Clinical Package Validator (Validator) introduces call back functions required by advanced Information Quality Rules (IQ Rules). Developers can perform more thorough conformance tests[1] of clinical documents using the latest version of the Agency's IQ Rules. IQ Rules enable developers to perform in-depth analysis of clinical documents that complements the structural analysis performed by standard template packages. The Validator supports the parallel execution of IQ Rules and standard template packages. IQ Rules are published separately by the Agency.

[1] Before formally declaring conformance of a software product to the System Operator of the My Health Record system, developers need to perform additional tests to ensure full coverage of all requirements. Please refer to the Product Data Sheet for more detailed information about the Validator's coverage of requirements and conformance test cases.

Version	Date	Comment
2.5	20 May 2016	EP-2489:2017 Clinical Package Validator v2.5 Release Note **Release rationale** Version 2.5 of the Clinical Package Validator (Validator) provides software developers with enhanced capabilities to achieve a greater degree of automation and depth of their conformance tests of clinical documents. The new release helps developers reduce efforts for manual conformance testing and increase their confidence about their targeted test coverage when declaring conformance. This is achieved through new types of validation checks, greater depth of document inspections and improved automation features. The new Validator supports: • More powerful validations through additional validation languages: ○ ISO Schematron ○ XSLT v2.0 ○ XPath v2.0 ○ XQuery v1.0 • Improved batch operation and reporting. • Australian Immunisation Register (AIR) documents. For a comprehensive list of all changes and defect fixes, please refer to release note. Before formally declaring conformance of a software product to the System Operator of the My Health Record system, developers need to perform additional tests to ensure full coverage of all requirements. Please refer to the *Product Data Sheet* for more detailed information about the Validator's coverage of requirements and conformance test cases.

<table>
<tr><th>Version</th><th>Date</th><th>Comment</th></tr>
<tr><td>2.4</td><td>20 May 2016</td><td>EP-2257:2016 Clinical Package Validator v2.4
Release Note
Release rationale
Version 2.4 of the Clinical Package Validator (“the Validator”) has been released to provide the following functional improvements:
<table>
<tr><th>ID</th><th>Change</th></tr>
<tr><td>CCTT-704</td><td>Support added for loading combined SNOMED CT-AU[2] and AMT v3 code sets.
AMT v3 and SNOMED CT-AU are now published by the Australian Digital Health Agency as combined code sets. The Validator supports the loading of additional combined SNOMED CT-AU and AMT v3 code sets. This allows users to perform validations against versions of these combined code sets that are released after the publication of this Validator release.</td></tr>
<tr><td>CCTT-703</td><td>Support removed for loading AMT v2 code sets:
AMT v2 has been deprecated more than 18 months ago and no more updates will be published for AMT v2. The Validator continues to support validations against the latest version of the AMT v2 code set, which is preinstalled with the Validator and does not need to be loaded by the user.</td></tr>
<tr><td>CCTT-618</td><td>Improved usability of report tabs for terminology validations:
User feedback suggested that the previous naming of these report tabs could be misleading. Tabs have been renamed and User Guide improved.</td></tr>
<tr><td>CCTT-606</td><td>Improved highlighting of overrides in test reports</td></tr>
</table>
This release contains the following new product component:
• The Product Data Sheet provides all release-independent information about the Clinical Package Validator end product. This information was previously included in this release note, which is now focused on information about this particular release.</td></tr>
</table>

[2] “SNOMED” and “SNOMED CT” are registered trademarks of the International Health Terminology Standards Development Organisation (IHTSDO).

Version	Date	Comment
2.3	17 Jul 2015	EP-2134:2015 Clinical Package Validator v2.3 Release Note **Release rationale** • Name change to Clinical Package Validator. • Support the validation of eHealth Diagnostic Imaging Reports that reference clinical information outside the clinical package (e.g. a diagnostic image on a website), through the automation of version 1.5 of the *Conformance Test Specification for CDA*[3] *Packaging*. • Provide a platform that enables the automation of conformance test cases and test scenarios, through the application of Schematron rules that are in addition to those in a template package.
2.2	–	Not released
2.1	20 Jan 2015	New and more consistent user interface with summary screen, drag and drop functionality, better handling of files, user management of terminology database, inclusion of version 1.2.9 of the generic style sheet.
2.0	22 Aug 2014	New package validation function built; Schematron libraries removed; added ability to load template packages for the validation of clinical documents and CDA packages.
1.12.8	08 Jan 2014	Support for both HPI-I relaxation and HPI-I enforcement by Schematron libraries in alignment with PCEHR release 4 (patch for v1.12, to replace v1.12.5a).
1.12.7	08 Jan 2014	Support for HPI-I relaxation by Schematron libraries in alignment with PCEHR release 4 (patch for v1.12, to replace v1.12.5a).
1.12.5a	15 May 2013	Revised validation rules (patch for v1.12, to replace v1.12.5).
1.12.5	20 Mar 2013	Revised validation rules (patch for v1.12).
1.12.2	20 Aug 2012	Validation rules aligned with PCEHR R1c (patch for v1.12).
1.12	15 July 2012	Functionality, validation rules and terminology aligned with PCEHR R1b.
2.1	20 Jan 2015	New and more consistent user interface with summary screen, drag and drop functionality, better handling of files, user management of terminology database, inclusion of version 1.2.9 of the generic style sheet.
2.0	22 Aug 2014	New package validation function built; Schematron libraries removed; added ability to load template packages for the validation of clinical documents and CDA packages.
1.12.8	08 Jan 2014	Support for both HPI-I relaxation and HPI-I enforcement by Schematron libraries in alignment with PCEHR release 4 (patch for v1.12, to replace v1.12.5a).
1.12.7	08 Jan 2014	Support for HPI-I relaxation by Schematron libraries in alignment with PCEHR release 4 (patch for v1.12, to replace v1.12.5a).
1.12.5a	15 May 2013	Revised validation rules (patch for v1.12, to replace v1.12.5).
1.12.5	20 Mar 2013	Revised validation rules (patch for v1.12).
1.12.2	20 Aug 2012	Validation rules aligned with PCEHR R1c (patch for v1.12).

[3] CDA is a trademark of Health Level Seven International and is registered with the United States Patent and Trademark Office.

Version	Date	Comment
1.12	15 July 2012	Functionality, validation rules and terminology aligned with PCEHR R1b.

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