



Clinical Package Validator Installation and Configuration Guide

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The Clinical Package Validator does not test software against all conformance requirements.

Results from the Clinical Package Validator must not be relied upon to determine software conformity. Vendors must run additional tests on software before declaring software conformance to the My Health Record System Operator.

Refer to the Clinical Package Validator Product Data Sheet *for information about the scope of this tool, and the* Source Code Licence and Production Disclaimer *contained in the software package for appropriate use of the tool.*

For further guidance, contact the Agency Help Centre on 1300 901 001 or <u>help@digitalhealth.gov.au</u>.

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Document information

Key information

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Product version	Date	Release comments
2.0	22 August 2014	Major release.
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2.2	-	Not published.
2.3	17 July 2015	Software enhancements (see release note for details).
2.4	20 May 2016	Software enhancements (see release note for details).
2.5	29 May 2017	Support for ISO Schematrons and other software enhancements (see release note for details).

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1 Introduction

1.1 Purpose

This document describes how to install and configure version 2.5 of the Clinical Package Validator ("the Validator").

1.2 Intended audience

This document is intended for:

- Testers who use the Validator to assist them in assessing whether their healthcare software system produces clinical documents that conform to some clinical document specifications, and clinical packages that conform to some clinical package specifications;
- Developers who use the Validator to provide quick feedback during software development; and
- Administrators who need to install the Validator for other users.

The Validator does not test all conformance specifications and you must carefully read the Product Data Sheet for the Validator that indicates what is out of scope.

1.3 Scope

This document describes the system requirements, administrator rights, and supporting software needed for installing the Validator. It also describes how to install and configure the Validator.

2 Before you begin

2.1 Prerequisites

Before installing and configuring the Validator, you must have:

- administrator rights to your PC;
- Windows XP, Windows Vista, Windows 7 or above;
- 2GB minimum memory;
- 4GB recommended memory; and
- 1GB minimum disk space free.

If the following software is not already installed on your computer and your computer does not use Windows 8 or above, it will be automatically installed during the installation of the Validator (Section 3):

- .NET Framework 4.0 or a later version; and
- Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop.

If your computer uses Windows 8 or above, Microsoft SQL Server Compact 3.5 will need to be installed manually (Section 3.2).

Version 2.5 of the Validator allows more than one version of the software to operate on the same computer (Section 2.2). It is now no longer necessary for a user to uninstall previous versions of the Validator.

A NASH test certificate must be installed before a user can access template packages in the My Health Record software vendor test (SVT) environment (Section 2.3).

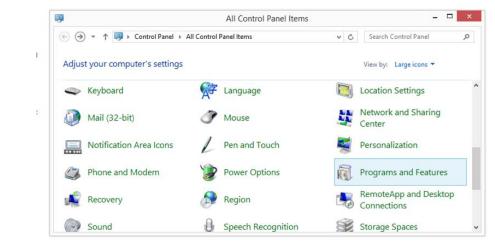
You must also be aware that the Validator runs only a subset of the complete set of tests you must run to validate whether a document is conformant with the clinical document specifications.

2.2 Uninstall an earlier version of the Validator

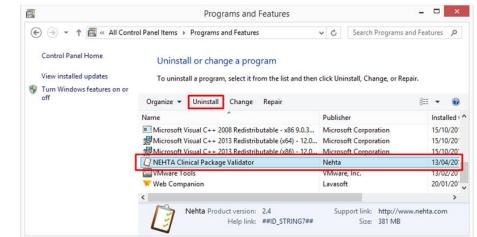
Version 2.5 of the Validator allows more than one version of the software to operate on the same computer, so there is no need to uninstall earlier versions of the Validator.

Follow the steps below if an earlier version of the Validator is already installed and you want to remove it, otherwise go to Section 2.3.

1 If an earlier version of the Validator is already installed, select **Uninstall a program** from the Windows Control Panel.

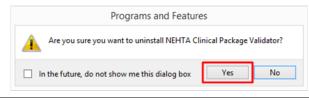


2 Select the version of the Validator to be uninstalled and then select **Uninstall**.



Note: The **Uninstall** option may be selected from the menu, or found by clicking the right mouse button.

3 If the following security screen appears, select **Yes** to allow the Uninstall process to proceed.

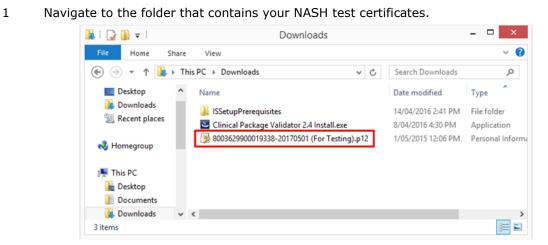


- 4 The uninstall process will continue to completion.
- End

2.3 Install a NASH test certificate

As an alternative to importing template packages from the Agency website, the Validator allows a user to import some template packages from the My Health Record software vendor test environment, provided a valid NASH organisation test certificate has already been installed.¹

Follow the steps below to install a NASH organisation test certificate, otherwise go to Section 3.



Note. If you do not have any NASH organisation test certificates, contact the Department of Human Services Online Technical Support helpdesk: <u>otsliaison@humanservices.gov.au</u>.

2 Double-click the relevant certificate to launch the Certificate Import Wizard and select **Next**.

Welcome to the Certificate Import Wizard
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
Store Location
Local Machine
To continue, dick Next.
Next Can

¹ The Validator can apply any template package. A template package is something that meets the requirements in the *PCEHR Template Service - Template Package Technical Specification v1.0*, available from: https://www.digitalhealth.gov.au/implementation-resources/national-infrastructure/EP-1514-2012/NEHTA-1042-2012

Certificate Import Wizard
File to Import
Specify the file you want to import.
File name:
ame/Downloads\8003629900019338-20170501 (For Testing).p12 Browse
Note: More than one certificate can be stored in a single file in the following formats: Personal Information Exchange- PKCS #12 (.PFX,.P12)
Cryptographic Message Syntax Standard- PKCS #7 Certificates (.P78)
Microsoft Senalized Certificate Store (.SST)
Next Cancel

4 Enter the password and select **Next**.

Private key protection To maintain security, the private key was protected with a password.	
Type the password for the private key.	
Password:	
Import options: Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option. Mark this key as exportable. This will allow you to back up or transport your keys at a later time. Include all extended properties.	

5	Select Next .	×
		🛞 🖉 Certificate Import Wizard
		Certificate Store Certificate stores are system areas where certificates are kept.
		Windows can automatically select a certificate store, or you can specify a location for the certificate. Automatically select the certificate store based on the type of certificate
		O Place all certificates in the following store Certificate store:
		Browse
		Next Cancel

6 Select **Finish**.

Completing t	he Certificate Import Wizard
comprening i	
The certificate will be	imported after you click Finish.
You have specified t	ne following settings:
	elected Automatically determined by the wizard
Content File Name	PFX M:\WEHTA Projects\DTS\InstallShield\CPV24.Latest\800362
<	

Note: You may need to restart your computer so that the Validator can detect the newly installed NASH test certificate.

3 Install the Validator and prerequisite software

3.1 Install version 2.5 of the Validator

This procedure requires that .NET Framework 4.0 (or a later version) and Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop are installed. If this software is not already installed on your computer and your computer does not use Windows 8 or above, it will be automatically installed during the installation of the Validator. If your computer uses Windows 8 or above, Microsoft SQL Server will need to be installed manually (Section 3.2).

To install the Validator, follow the steps below.

 Locate the Clinical Package Validator 2.5 Install.exe file and the ISSetupPrerequisites folder within the expanded .ZIP file that contained this guide. Save the Clinical Package Validator 2.5 Install.exe file and the ISSetupPrerequisites folder to a preferred location on a local drive (e.g. C:\temp).

Note: The Validator installation may not work from a network drive. **Note:** The **Clinical Package Validator 2.5 Install.exe** file and the **ISSetupPrerequisites** folder must be co-located.

Note: The **ISSetupPrerequisites** folder contains prerequisite software that will be installed along with the Validator if the prerequisite software is not already installed on your computer.

2 Open Windows Explorer and navigate to the **Clinical Package Validator 2.5 Install.exe** file. Double-click the file to install the software.

			▼ 1	Search CPV25
Organize	Share with 👻 New folder		:==	- 🔟 🔞
🔆 Favorites	Name	Date modified	Туре	Size
🧮 Desktop	🔋 ISSetupPrerequisites	23/12/2016 11:52	File folder	
🐌 Downloads	🔤 Clinical Package Validator 2.5 Install.exe	3/01/2017 3:24 PM	Application	70,378 k
🗐 Recent Places				
🥽 Libraries				
🜉 Computer				
🚢 Local Disk (C:)				

- Note: Windows may mark files downloaded from the Internet as 'Blocked'. This prevents the Validator from running.
 To unblock a file, right-click on it and select **Properties**, then select **Unblock** in the
- 4 Once the file is unblocked, continue installing the Validator by once again doubleclicking the **Clinical Package Validator 2.5 Install.exe** file.

'General' tab, followed by **OK**.

5 The InstallShield Wizard will open.

	Preparing to Install
0	Clinical Package Validator Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
140	Extracting: Clinical Package Validator.msi
-	
	Cancel

- 6 The Validator installation script will check for the presence of the prerequisite software. A message is displayed if any prerequisite software needs to be installed. To continue select **Install**.
- 7 The prerequisite software will be installed.

Status	Requirement
	Microsoft .NET Framework 4.0 Full
	Microsoft SQL CE 3.5 x86 Microsoft SQL CE 3.5 x64

8 When the InstallShield Wizard has completed opening, select **Next**.

📸 Clinical Package Validator -	- Instalishield Wizard
	Welcome to the InstallShield Wizard for Clinical Package Validator
	The InstallShield(R) Wizard will install Clinical Package Validator on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

9 The default install location is C:\DigitalHealth\CPV25\. To change the install location, select the **Change** button and choose another location on the C: drive, if preferred. Once the preferred install location is chosen, select **Next**.

Destinati	Package Validator - InstallSh i on Folder xt to install to this folder, or cli		to a different folder.	el
Ø	Install Clinical Package Valida C:\DigitalHealth\CPV25\	ator to:		Change
InstallShield -				

10 Select **Install**.

e
e
ion settings, click Back. Click Cancel to
🛞 Install 🛛 🛛 Cancel

11 If the following security screen appears, select **Yes** to allow the installation to proceed.

Do you w unknown	vant to allow the following program from an publisher to make changes to this computer?
Program nar	me: C:\Users\User Name\AppData\Local\Downloaded Installations\(AC5872C9-6271-43AF-9537-4\Clinical Package Validator.msi
Publisher:	Unknown
File origin:	Hard drive on this computer
Show details	Yes No
	Change when these notifications app

- 12 The Validator will start installing.
- 13 Once the Validator installation is complete, select **Finish**.

InstallShield Wizard	×
InstallShield Wizard Completed	
The InstallShield Wizard has successfully installed Clinical Package Validator. Click Finish to exit the wizard.	
< Back Finish Canc	a
	InstallShield Wizard Completed The InstallShield Wizard has successfully installed Clinical Package Validator. Click Finish to exit the wizard.

The Validator is now installed.

End

Note: During the installation process the Clinical Package Validator 2.5 installation script will determine whether the prerequisite software is already installed on the computer. If the software is not already installed, the Clinical Package Validator 2.5 installation script will run the additional installation scripts in the

ISSetupPrerequisites folder to install the prerequisite software.

However, if the operating system is Windows 8 or above, the Clinical Package Validator 2.5 installation script will be unable to detect if Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop is already installed, and the following message is displayed.

👸 NEHT	A Clinical Package Validator Installer In	×
	SQL Server Compact Edition v3.5 needs to be installed for this installation to continue. This can be found in the ISSetupPrerequisites folders	
	ОК	

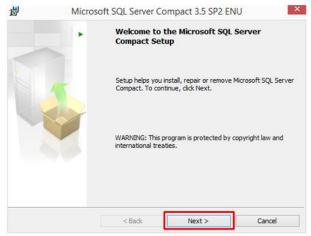
If the above message is displayed, go to Section 3.2. If the above message is not displayed, go to Section 4.

3.2 Manually install Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop

The Microsoft SQL Server Compact 3.5 Service Pack 2 for Windows Desktop is the software used by the Validator to store terminology datasets. If it is not already present on the computer, it is automatically installed by the Validator, unless the operating system is Windows 8 or above, in which case it must be installed manually.

To manually install Microsoft SQL Server, follow the steps below.

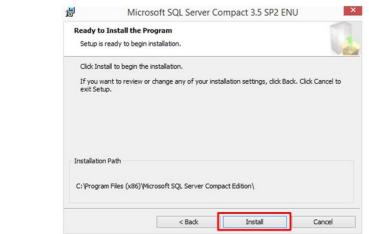
- 1 Select the **SSCERuntime_x86-ENU.msi** installation script in the ISSetupPrerequisites\{B1165B38-CA52-11E0-A63D-7C004824019B} folder.
- 2 When the following screen appears, select **Next**.



3 If you accept the license agreement terms, select **I accept the terms in the license agreement** and then select **Next**.



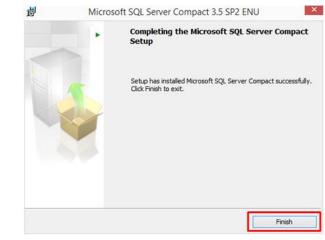
4 To install the software select **Install**.



5 If the following message is displayed select **Yes**.

?		u want to allov are on this com		g program	to instal
		Program name: Verified publisher File origin:	SQL Server Com Microsoft Corp Hard drive on th	oration	
•	Show deta	ils	[Yes	No
			Change wh	nen these notif	ications ag

6 To end the installation process select **Finish**.



7 If the computer uses a 64-bit operating system, an additional installation script needs to be applied.

Select the **SSCERuntime_x64-ENU.msi** installation script in the ISSetupPrerequisites\{B9E5C848-CA52-11E0-9D02-80004824019B} folder and follow the steps to complete the installation process.

End

4 Configure the Validator

4.1 Select template packages

The Validator uses template packages to assess whether some clinical documents conform to published specifications. Template packages include schema and Schematron rules.

The Validator needs a template for each type of clinical document that is in scope for the Validator to test and for each level of conformance. As templates are revised, more than one template may exist for a specific clinical document type and conformance level. Testers should use the most recent version of a template unless there is a reason for choosing an earlier version.

The Validator does not test all conformance specifications. Please refer to the Validator Product Data Sheet for further information about exclusions and the Non-Production Disclaimer.

Template packages may be obtained by:

- 1 downloading the template packages from the Agency website and importing them into the Validator; or
- 2 importing the template packages from the My Health Record software vendor test environment into the Validator.

For either option, the template package directory on the Agency website should be viewed to determine which version of the template packages should be used.

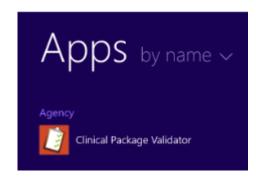
To view the clinical documents template package directory, follow the steps below.

1	Download the template package directory from the Agency website ² and save a copy. Note: If the webpage for the template package directory states that a newer version is available, download the newest version.
2	Read the `usage instructions' worksheet in the template package directory spreadsheet and determine from the `directory' worksheet the template package identifier and version number to use.
	Note: An 'HPIIRelaxed' template package may only be used to upload documents to the My Health Record system with the permission of the My Health Record System Operator.

² <u>https://www.digitalhealth.gov.au/implementation-resources/clinical-documents/EP-2320-2016/NEHTA-2321-2016</u>

4.2 Launch the Validator

1 Launch the Validator by selecting the Windows icon and locate the Clinical Package Validator in the Metro view.

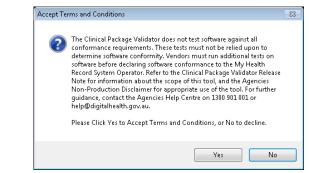


2 A warning message is displayed if the Validator detects that a NASH organisation test certificate has not been installed. To continue select **OK**.

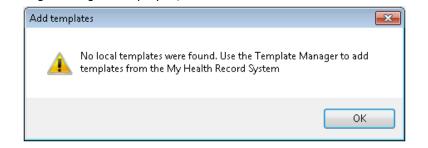


Note: The Validator may be used without a NASH organisation test certificate if template packages are downloaded from the Agency website and imported into the Validator. The recommended approach, however, is to import template packages from the My Health Record software vendor test environment. To install a NASH organisation test certificate, exit the Validator and follow the steps in Section 2.3.

3 There may be a delay of several minutes before the terms and conditions message is displayed. If you accept the terms and conditions, select **Yes** to continue. If you select **No**, the Validator will close.



4 If the following message is displayed, select **OK**.



5 The template manager will now be displayed.

lanage Templates			
ASH Test Certificate		Local Template Packages	
	Import selected >		
	Import all >>		
Refresh from SVT		Add From Zip File Delete	

To proceed, either import template packages from the My Health Record software vendor test environment (SVT) (Section 4.3) or import template packages downloaded from the Agency website (Section 4.4).

End

4.3 Import template packages from the My Health Record SVT

Template packages may be imported from the My Health Record software vendor test (SVT) environment as an alternative to importing them from the Agency website (Section 4.4).

Note: A NASH organisation test certificate must first be installed before template packages can be imported from the SVT environment (Section 2.3).

To import template packages from the SVT environment, follow the steps below.

1	Select the Confi	juration menu.	
	L) Clin	al Package Validator v2.5	
	File	Configuration Help	
		le : Select an input file to validate	2
	Temp	te:	
	Addn	les: Select additional rules template folder for validation	
	Informa		
	- Co	figuration and Runtime Information	
		Template Package	
		Document Type: Document Type mplate Package Name: Template Package ID Conformance Level: Conformance Level emplate Effective Date: Effective Date Template Version: Template Version Template Path: TemplatePath Temp Work Path: C:\DigitalHealth\CPV25\Temp Zip file size: Zip file size	
2	Select Manage	emplates.	
		Clinical Package Validator v2.5	
		File Configuration Help	
		Manage Templates Manage Terminology	-
		Manage Temporary File Location	EXV:
		Template:	•
		Addn Rules: Select additional rules template folder for validation	

3 If one or more NASH organisation test certificates have been installed, the available certificates will be displayed in a pull down list. Select the certificate to be used.

Template	Manager	-	□ ×
Manage Templates Cenfgunton NASH Test Cenfroste CN-general 8009529500135381.d electronichealth net au. 0-MEDTESTORGSTORG	18120, DC+8003629900019338, DC+4, DC-electronichealth, DC+ret, DC-au		
Templates Packages	Local Template Packages		
	< braining to be a set of the		
Refreeh from SVT	Add From Zp File Delete		
			Close

4 To obtain the list of template packages that may be imported from the SVT environment, select **Refresh from SVT**.

	Template Manager	- • ×
Manage Templates Configuration		
NASH Test Cettificate CN-general.8003629900019338.id electronichealth.net.au, 0-5	KEDTESTORGS8120, DC+8003629900019338, DC+id, DC-electronichealth, DC-met,	DC+au
Templates Packages	Local Template Packages	
	Import associate > Import all >>	
Refresh from SVT	Add From Zip File Delete	
		Close

5 An error message is displayed if the SVT environment cannot be contacted. To continue, select **OK** and determine if there is a working connection to the Internet.

Templates	List Error	×
<u>^</u>	Message from the My Health Record service is: There was no endpoint listening at https://b2b.ehealthvendortest.health.gov.au/searchTemplate that could accept the message. This is often caused by an incorrect address or SOAP action. See InnerException, if present, for more details.	
	OK	

6 The list of template packages will be obtained from the SVT.

	Template Manager	
lanage Tem	nplates	
rfiguration	CN-general.8003629900019338.id electronichealth.net.au. O+MEDTESTORGS8120, DC+800362990001	9338 DCald DCaslactronichealth DCanat DCase
mplates Packages	Cregeneral accession assessment interaction of the provide accession of	Local Template Packages
	Refreshing Templates	
	Contacting Server	
	Impot al >>	
Refresh from SVT		Add From Zp File Delete
		Close

7 Choose the required template package and select **Import selected.**

Configuration				
NASH Test Certificate	CN+general.8003629900019338.id electronichealth	net au, O+MEDTESTORGSB120, DC+8003629900019	3338, DC+id, DC+electronichealth, DC+net, DC+au	
Templates Packages			Local Template Packages	
- Faderal 2 (1.236.1) - Faderal 3 (1.2.36.1) - Faderal 3 (1.2.36.1) - Faderal 3 (1.2.36.1) - Faderal 38 (1.2.36.1) - Faderal 38 (1.2.36.1) - Faderal 38 (1.2.36.1) - Faderal 38 (1.2.36.1) - Event Summary 34 (1.2) Event Summary 34 (1.2)	0111006112100015 wr 33284 101006112100015 wr 33284 1006112100015 wr 33284 10011006112100015 wr 33284 10011006112100012 wr 33284 10011006112100012 wr 33284 100110061142712 wr 309 100110061142712 wr 309 100110061142712 wr 309 100110061142712 wr 309 100110061142712 wr 309 100110061142712 wr 309 100110061142712 wr 309 10011006114272 wr 309 1001006114272 wr 309 1001006114272 wr 309 1001006114272 wr 309 1001006114272 wr 309 1001006114272 wr 309 1001006114272 wr 309 100100011420000000000000000000000000000	import soliteted >		
Event Summary 3A (1.				

8 Verify that the template package has been imported into the Validator and select Close. **Winder Transform Winder Transform
Winder Transform
Winder Transform**

4.4 Import template packages downloaded from the Agency website

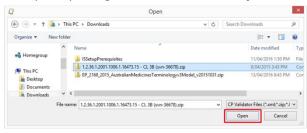
Template packages may be downloaded from the Agency website and imported into the Validator as an alternative to importing them from the My Health Record software vendor test environment (Section 4.3). To download a template package from the Agency website, follow the steps below.

1	Download the template package library from the selected clinical document type end product, available from https://www.digitalhealth.gov.au/implementation- resources/clinical-documents.				
2	Unzip the template package library ZIP file and save the selected template packages to a preferred location. Note: A template package is in the form of a ZIP file within the template package library. The template packages should <i>not</i> be unzipped.				
3	To import the downloaded template package, select the Configuration menu.				
4	Select Manage Templates.				

5 Select Add From ZIP File.

Configuration NASH Test CettRcate CN-general.800362990019338.id electronichealth.net.au, O-	MEDTESTORGS8120, DC+8003629900019338, DC+id, DC-electronichealth, DC-ret, DC-au	
Templates Packages	Local Template Packages	
$\label{eq:constraints} \left\{ \begin{array}{c} 1 \leq 1 $	r Report solidad > Report all >>	
Refresh from SVT	Add From Zip File Delete	

6 Navigate to the directory in which the downloaded template package has been stored, locate the required template package ZIP file and select **Open**.



7 Verify that the template package has been imported into the Validator and select **Close**.

NASH Test Catificate Charac	and 0003C20000019229 of electroniche alls out a	- 0-MEDTESTORSER120 DC-00035200000	19338, DC+id, DC+electronichealth, DC+net, DC+au
Templates Packages			Local Template Packages
		Import selected > Import all >>	$\begin{array}{l} -\text{index}(2)=2, 2, 2, 3, 2, 3, 12, 11, 12, 12, 12, 12, 12, 12, 12, 12$
Refresh from SVT			Add from Zp File Delete

End

4.5 Delete template packages

Template packages imported into the Validator should be deleted if they are no longer needed.

1	To delete a templ	ate package from the Validator, select the Conf	iguration menu.
		 [1] Clinical Package Validator v2.5 File Configuration Help 	
		File : Select an input file to validate	
		Template: Addn Rules: Select additional rules template folder for validation)
2	Select Manage T	emplates.	
		Clinical Package Validator v2.5	
		File Configuration Help	
		Manage Templates	
		Manage Terminology Manage Temporary File Location	
		Template:	
		Addn Rules: Select additional rules template folder for validation	
3	Choose the templ	ate package to be deleted and select Delete .	
		Template Manager –	
		Manage Templates	
		NASH Test Cenfricate [CN-general 800362990019338.id electronicheath.net.au, O+MEDTESTORGS8120, DC-8003629900019338, DC-id, DC-electronicheath, DC-rest, DC-au	
		Template Polages Local Template Polages Local Template Polages	
		Proof all >> Event Sumary 54, 122, 54, 1200, 1000, 11472, 24w, 73 Event Sumary 54, 122, 54, 1200, 1000, 11472, 24w, 735 Event Sumary 34, 123, 1200, 1000, 11472, 34w, 735 Event Sumary 34, 123, 1200, 1200, 1200, 1200, 1200, 1200, 1200, 1200, 1200,	
		Retresh from SVT Add From Zip File Delete	
			Close
End			

4.6 Configure clinical terminology datasets

The Validator provides limited testing of terminology. Refer to the Product Data Sheet for what is out of scope.

The Validator is preloaded with clinical terminology datasets. As clinical terminology is frequently revised, resulting in new versions of clinical terminology datasets being regularly published, the Validator allows an administrator or user to upload new versions of the terminology datasets listed in Table 1.

Version 2.5 of the Validator allows a user to import AMT v3, combined SNOMED CT-AU/AMT v3, and PBS clinical terminology datasets in ZIP format.

Code system name	Code system identifier		
Australian Medicines Terminology (AMT) version 3	2.16.840.1.113883.6.96		
PBS Item codes	1.2.36.1.2001.1005.22		
PBS Manufacturer codes	1.2.36.1.2001.1005.23		
Systematized Nomenclature of Medicine - Clinical Terms Australian Release (SNOMED CT-AU)	2.16.840.1.113883.6.96		

Table 1 - Code systems the user can import into the Validator

4.6.1 Determine which terminology datasets are loaded

1 To determine which versions of terminology datasets are already present in the Validator database, select the **Configuration** menu.

File Confi	guration Help	
File :	Select an input file to validate	
Template:		
	Select additional rules template folder for validation	~

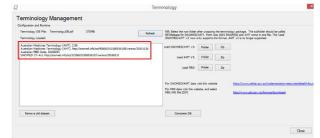
2 Select Manage Terminology.

[] Clinical Package Validator v2.5	
File Configuration Help	
Manage Templates	
Manage Terminology	2000
Manage Temporary File Location	
Template:	Ŧ
Addn Rules: Select additional rules template folder for validation	

3 Select **Refresh**.

Terminology Management	
Terninology DB File: Terninology OB sof 373MB Terninology Loaded	Rafeeth NIL Select the root folder after unopping the terminology package. The sublidder should be called REVARIANT FOR DRC 2015 SIXORED ANT - Root DRC 2015 SIXORED and ART Care in one Rie. The Land SIXORED_REVIEW of the root reparation the root ART C2 are brogen pagement.
	Losd SNOMED/AMT v2: Polder Zp
	Load AMT V2: Folder Zp
	Load PBS: Folder Zp
	For SOCHEDART date with this website to the second
Remove old dataset	Compress DB

4 A list of terminology datasets and their versions will be displayed.



- AMT version 3 uses the version number format 'http://snomed.info/sct/900062011000036108 /version/YYYYMMDD' where 'YYYYMMDD' is the date of release of a specific AMT version 3 dataset (e.g. 'http://snomed.info/sct/900062011000036108/version/20140630').
- PBS uses the version number format 'YYYYMMDD' where 'YYYYMMDD' is the date of release of a specific PBS dataset (e.g. '20141130').
- SNOMED CT-AU uses the version number format 'http://snomed.info/sct/32506021000036107/version/YYYYMMDD' where 'YYYYMMDD' is the date of release of a specific SNOMED CT-AU dataset (e.g. 'http://snomed.info/sct/32506021000036107/version/20141130').

Note: PBS Item codes and PBS Manufacturer codes are both included in the PBS dataset.

4.6.2 Find and load another version of the combined SNOMED CT-AU and AMT v3 dataset

1 To obtain and load another version of the combined SNOMED CT-AU and AMT v3 dataset, select the link to the SNOMED CT-AU website. You would do this if your clinical document uses a terminology release that is not one of the versions included in the Validator.

Since July 2016, all SNOMED/AMT terminology is now published on its own dedicated website: www.healthterminologies.gov.au

3	Term	ninology			×
Terminology Management					
Terminology DB File: Terminology/DB.sdf 917MB Terminology Loaded:	Refresh NB: Select the root folder after unzipping the terminology pack RF2Release for SNOHEO/NT. From Dez 2015 SNOHEO an SNOHED/AHT v3 now only support the format. ANT v3 is				ology package. The subfolder should be called NOMED and AMT come in one file. The 'Load AMT v2 is no longer supported.
		Load SNOMED/AMT v3:	Folder	Zip]
		Load AMT V3:	Folder	Zip]
		Load PBS:	Folder	Zip	
		For SNOMED/AMT data	visit this web	site	https://www.nehta.gov.au/implementation-resources/ehealth-four
		For PBS data visit this we PBS XML file (ZIP)	bsite, and sei	ect	http://www.pbs.cov.au/browse/downloads
Remove old dataset		Compress DB			
					Close

2 Select Either **Login** or **Register** for the latest version of SNOMED CT-AU, or to select and download an earlier version. Note that the file includes both SNOMED CT-AU and AMT.

Australian Government stralian Digital Health Agency	🕇 НОМЕ	🗢 LEARN	• ACCESS	🔑 TOOLS	REQUEST		
CTS Home > Access		1	1	1	1	1	
Introduction to Access			Terminel				
SNOMED CT-AU	А	ccess terminology	downloads either a ne FHIR value sets.		bundle or in CSV/TS	V format below. FHIR	Resources
	Y	'ou must be logge	ed in to download.				
Download						d by permission of th	
Technical Guides	S	NOMED CT [®] was o		/ The College of A		DO). All rights reserv 5. "SNOMED" and "SNO	
FHIR Resources							
RCPA	R	RF2 Release	Bundle				
RCPA	т	he sections below	provide links to dov			ined monthly release	
RCPA Document Library	T tł	he sections below heir native RF2 dist	provide links to dov tribution format. Lin ED CT core termino	nked archives con	tain all of the releva	ined monthly release nt terminology releas ence Set, and other r	e data,
	T tł	he sections below heir native RF2 dist ncluding the SNOM ets for use in Austr	provide links to dov tribution format. Lin ED CT core termino	nked archives con logy files, the Aus	tain all of the releva stralian Dialect Refer	nt terminology releas	e data,
Document Library	T tł	he sections below heir native RF2 dist ncluding the SNOM ets for use in Austr	provide links to dou tribution format. Lin ED CT core termino ralian healthcare. -CT AU 31 De	nked archives con logy files, the Aus ec 2016 (Cur	tain all of the releva stralian Dialect Refer	nt terminology releas ence Set, and other r	e data,
Document Library Need Help?	T tł	he sections below heir native RF2 dist ncluding the SNOM ets for use in Austr SNOMED	provide links to dou tribution format. Lin ED CT core termino ralian healthcare. -CT AU 31 De SNOMEI	nked archives com logy files, the Aus ec 2016 (Cur D CT-AU 31 Dece	tain all of the releva stralian Dialect Refer rrent)	nt terminology releas ence Set, and other r LL)	e data, reference
Document Library Need Help?	T tł	he sections below heir native RF2 dist Icluding the SNOM ets for use in Aust SNOMED	provide links to dou tribution format. Lin ED CT core termino ralian healthcare. -CT AU 31 De SNOMEI	nked archives com logy files, the Aus ec 2016 (Cur D CT-AU 31 Decemb	tain all of the releva tralian Dialect Refer rent) mber 2016 (RF2 FU	nt terminology releas ence Set, and other r LLL) SHOT)	e data, reference
Document Library Need Help?	T tł	he sections below heir native RF2 dist Icluding the SNOM ets for use in Austr SNOMED	provide links to doo tribution format. Lii ED CT core termino -CT AU 31 De SNOMEI SNOMED C SNOMED	nked archives con logy files, the Aus cc 2016 (Cur D CT-AU 31 Dece T-AU 31 Decemb CT-AU 31 Decer	tain all of the releva trailan Dialect Refer rent) mber 2016 (RF2 FU er 2016 (RF2 SNAP	nt terminology releas ence Set, and other r LLL) SHOT) LTA)	e data, eference

Note: You need to be Logged in to be able to select and download the release. Always download the **SNAPSHOT** version as that is what the Validator requires.

 Selecting the download icon, saves the zip file to your default Download directory. Move the file to c:\temp or another local temporary folder.
 The file downloaded should follow a similar pattern to this, where yyyymmdd is the monthly release date.

NCTS_SCT_RF2_DISTRIBUTION_32506021000036107-yyyymmdd-SNAPSHOT.zip

4 Import the downloaded SNOMED CT-AU package ZIP file by selecting **Zip** for 'Load SNOMED'.

	Terminology	>
erminology Management		
Terminology DB File: TerminologyDB.sdf 917MB Terminology Loaded:	Refresh NB: Select the root folder after unzipping the terminology package. The subfolder should be called RFRPelaeses for SNOMED/AMT. From Dec 2015 SNOMED and AMT come in one file. The Load SNOMED/AMT '5 mov only support this format. AMT via its no longer supported.	
	Load SNOMED/AMT v3: Folder Zip	
	Load AMT V3: Folder Zip	
	Load PBS: Folder Zip	
	For SNOMED/AMT data visit this website <u>https://www.nebta.gov.au/implementation-resources/</u> For PBS data viat this website, and select PBS XM4. file (ZIP)	ihealth-fo
Remove old dataset	Compress DB	
	c	lose

Note: If the SNOMED CT-AU package ZIP file was already downloaded and unzipped into a folder, the contents of the folder may be imported by selecting **Folder**.

5 Select the SNOMED CT-AU package ZIP file and select **Open**.

🚺 Open			×
Look in:	🕌 temp 👻	G 🤌 📂 🛄 🗸	
Recent Places	/	Date modified 6/01/2017 10:16 AM	Type Compress
Network	III File name: NCTS_SCT_RF2_DISTRIBUTION_S Files of type: Zip Files (".zip) I	32506021(-	Dpen Cancel

6 The message 'Unzipping data' is displayed while the SNOMED CT-AU data is being imported.

NB: Select the root folder			
NB: Select the root folder			
		a the termin	alan conduces. The addedda shareld he called
RF2Release for SNOMED	AMT. From	Dec 2015 5	ology package. The subfolder should be called NOMED and AMT come in one file. The 'Load
SINOMED/AMIT V3 NOW	my supports	this format.	Ami i vz is no longer supported.
Load SNOMED/AMT v3:	Folder	Zip	Unzipping data
Losd AMT V2:	Folder	70	1
LOAD MILL VSI	rooe	ωp	
Load PBS:	Folder	Zip	
For SNOMED/AMT data	visit this web	site	https://www.nehta.cov.au/implementation-resources/ehealth-fi
For PBS data visit this we PBS XML file (ZIP)	bsite, and sel	lect	http://www.pbs.gov.au/browse/downloads
Compress DB			
	Load SNOMED/AMT v3: Load AMT V3: Load PBS: For SNOMED/AMT data For PBS data vite this we PBS XML file (ZIP)	Load SNOMED/AMT V3: Polder Load AMT V3: Polder Load PBS: Polder For SNOMED/AMT data vitat this web For PBS data vitat this website, and se PBS XML file (ZIP)	Load AMT V3: Folder Zp Load PBS: Folder Zp For SNOMED/AMT data visit this website Rpr IBS data visit this website, and select PBS IMI. file (ZIP)

Note: The loading process may take many minutes to complete.

7 Confirm that the SNOMED CT-AU dataset has been successfully loaded into the Validator database. The message 'Loaded data into database' should appear next to the button that was selected to load the dataset and the terminology dataset should appear in the 'Terminology Loaded' list.

rminology Management		
rminology DB File: Terminology DB.sdf 373MB rminology Loaded:	Refresh NB: Select the root folder after unzipping the te RF2Release for SNOMED/AMT. From Dec 201 SNOMED/AMT v3' now only supports this form	eminology package. The subfolder should be called 15 SNOMED and AMT come in one file. The 'Load mat. AMT v2 is no longer supported.
	Load SNOMED/AMT v3: Folder Zip	p Loaded data into database
	Load AMT V3: Folder Zip	p
	Load PBS: Folder Zi	p
	For SNOMED/ANT data visit this website For PBS data visit this website, and select PBS XML file (ZIP)	<u>http://www.nehts.cov.au/mplementation-resources/eheat</u> http://www.abs.cov.au/browsel/kownloads
Remove old dataset	Compress DB	

Note: The **Refresh** button may need to be selected to see the list of loaded terminology data.

End

4.6.3 Find and load another version of the AMT v3 dataset

1 Since Oct 2016, the Agency has stopped releasing separate releases of AMT. AMT is now only released within the SNOMED release. AMT can still be imported using older zip files previously downloaded, but it is recommended that you import the SNOMED/AMT joint release as detailed in section 4.6.2.

4.6.4 Find and load another version of the PBS dataset

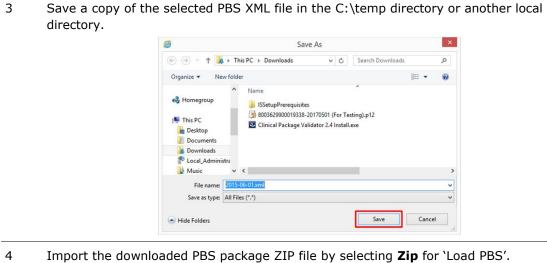
1 To obtain and load another version of the PBS dataset, select the link to the PBS website.

erminology Management					
infouration and Runtime					
Terminology DB File: Terminology DB.sdf 917MB		The cloud out film			
reminology US Pile: Terminology US.Scr 91/MB	Refresh	RF2Release for SNOMED	AMT. From	Dec 2015 SN	logy package. The subfolder should be called IOMED and AMT come in one file. The 'Load AMT v2 is no longer supported.
erminology Loaded:		SNOMED/AMT V3 NOW C	may supports	this format.	RMT V2 is no longer supported.
		Load SNOMED/AMT v3:	Folder	Zip	
		Load AMT V3:	Folder	Zip	
				-	
		Load PBS:	Folder	Zip	
		For SNOMED/AMT data	visit this web	ite	https://www.nehta.gov.au/implementation-resources/ehealth
		For PBS data visit this we PBS XML file (ZIP)	bsite, and sel	ect	http://www.pbs.gov.au/browse/downloads
Remove old dataset		Compress DB			

Note: PBS Item codes and PBS Manufacturer codes are both included in the PBS dataset.

2 Either download the latest version of the PBS dataset by selecting the **PBS XML file** link, or select **Publications Archive** to choose an earlier version of the PBS dataset.

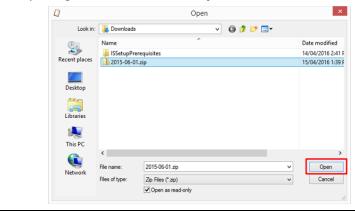
Australian Government Department of Health	PBS	The Pharmaceu Benefits S			Medicines FAQ Subscribe	
* PBS Information -	Browse the PBS -	For Health Professionals -	For Industry -	News -	Publications & Downloads +	Contacts
Browse by dow	nloads					
PBS Download	s					See also
Page last updated: 1 June 2015						PBS Publications
1 June 2015						PBS Statistics PBS Reviews
Errata to Schedule of Pha		PDF 407KB)				Software Developers site
PBS Text files (ZIP 3.1 M PBS XML file (ZIP 5.5 M						
Archive						



	Terminology	
erminology Management		
omguration and kuntime Terminology DB File: Terminology DB.sdf 917MB Terminology Loaded:	Refrash RE: Select the not folder after unspoing the terminology package. The subfolder should be called RP.Zhelasse for SNOMED/AMT. From Dec 2015 SNOMED and AMT come in one file. The Load SNOMED(AMT 47) and using the stress frame. AMT 42 are to longer supported.	
	Load SNOMED/AMT v3: Folder Zp Load AMT V3: Folder Zp Load PBS: Folder Zp For SNOMED/AMT data visit this website. For DBS data visit this website. and select PBS SNA (% (2)P)	et/ehealth-
Remove old dataset	Compress DB	

Note: If the PBS package ZIP file was already downloaded and unzipped into a folder, the contents of the folder may be imported by selecting **Folder**.

5 Select the PBS package ZIP file and select **Open**.



6 Two messages (i.e. 'Unzipping data' then 'Loaded data into database') are displayed while the PBS data is being imported.

onfiguration and Runtime	
Terminology DB File: Terminology DB.sdf 373MB Terminology Loaded:	Refresh NE: Select the root folder after untoping the terminology package. The subfolder should be called PTR/elease for SNOMED/AMT. The Dec 2015 SNOMED and AMT come in one file. The Load SNOMED/AMT v3' now only supports this format. AMT v2 is no longer supported.
	Load SNOMED/AMT v3: Folder Zip
	Load AMT V3: Folder Zp
	Load PBS: Folder Zip Loaded data into database
	For SNOMED/AMT data visit this website https://www.nehta.cov.au/mplementation-resources/eh
	For PBS data visit this website, and select PBS XML file (ZIP) http://www.pbs.cov.au/browsa/downloads
Remove old dataset	Compress DB

Note: The loading process may take many minutes to complete.

7 Confirm that the PBS dataset has been successfully loaded into the Validator database. The message 'Loaded data into database' should appear next to the button that was selected to load the dataset.

373MB R	tefresh NBI Select the root rold			
				nology package. The subfolder should be called NOMED and AMT come in one file. The 'Load AMT u2 is no locose supported
		w only supports	this rormat.	Amit vz is no longer supported.
ed.info/sct/900062011000036108/version/20151130	Load SNOMED/AMT v	Folder	Zip	
0036107/version/20160131	Load AMT V	; Folder	Zip	
	Load PBS	; Folder	Zip	Loaded data into database
	For SNOMED/AMT da	ta visit this web	site	https://www.nehta.gov.au/implementation-resources/ehealth-fr
		website, and se	lect	and the second se
	PBS XML file (ZIP)			http://www.pbs.gov.au/browse/downloads
	Compress DB			
	ed.info/sct90006301100034100/version/2015113 00036107/version/20160131	ed.wfo/sct/900043011000036108/version/20151130 0035107/version/20150131 Load AMT V3 Load PBS For SNOMED/AMT da	ed.m6/sct/900042011000036108/version/20151130 Load SNOMED/AMT v3: Folder Load AMT V3: Folder Load PBS: Folder For SNOMED/AMT data visit this web For PBS data visit this website, and as	0036107/version/20160131 Load AMT V3: Folder Zp Load PBS: Folder Zp For SNOMED/AMT data visit this website. For PBS data visit this website. and asket

End

4.6.5 Remove a terminology dataset

1 If the list of terminology datasets currently loaded into the Validator is not displaying, select **Refresh**.

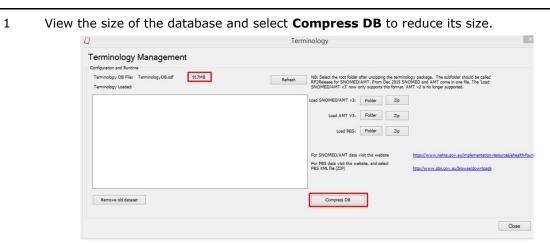
7	Terminology			×
Terminology Management				
Terminology DB File: Terminology DB.sdf 917MB Terminology Loaded:	Refresh NB: Select the root folde RF2Release for SNOMEI SNOMED/AMT v3' now	r after unzippir D/AMT. From only supports	ng the termino Dec 2015 SM this format.	logy package. The subfolder should be called IOMED and AMT come in one file. The 'Load AMT v2 is no longer supported.
	Load SNOMED/AMT v3:	Folder	Zip]
	Load AMT V3:	Folder	Zip	
	Load PBS:	Folder	Zip]
	For SNOMED/AMT data For PSE data vite the w PBS XML file (ZIP)			https://www.nehta.cov.au/Implementation-resources/eheaht-four http://www.obs.cov.au/browse/downloads
Remove old dataset	Compress DB			
				Close

2 Choose the dataset to be removed and select Remove old dataset. Terminology Management Configuration and Ru Terminology DB File: TerminologyDB.sdf 717MB Refresh ology Loaded ustralian Medicines Terminology (ANT), 2.54 ustralian Medicines Terminology (ANT), 2.55 ustralian Medicines Terminology (ANT), 2.56 ustralian Medicines Terminology (ANT), http:// Remove old dataset Note: The removal process may take many minutes to complete. 3 Confirm the dataset is no longer present in the list of loaded datasets. Terminology Management onfiguration and Ru inology DB File: Termin log√DB.sdf Refresh Terminology Loaded: 2.54 2.55 2.56 Remove old dataset

End

4.6.6 Compress the database

The Validator's terminology database may be compressed to reduce its size. Compression removes unused space and reduces the footprint of the database on the disk. Compression should be done after loading and/or removing datasets. Compressing the database does not affect the performance of the Validator.



In this example, the size of the database before compression is 717 MB. **Note:** The compression process may take many minutes to complete.

2 View the size of the database again to confirm that the compression has been successful.

	Terminology			
erminology Management				
Terminology DB File: Terminology DB.sdf 484MB Terminology Loaded:	Refresh RF2Release for SNOMED SNOMED/AMT v3' now	after unzippin /AMT. From only supports	g the termino Dec 2015 SN this format.	ology package. The subfolder should be called KOMED and AMT come in one file. The 'Load AMT v2 is no longer supported.
	Load SNOMED/AMT v3:	Folder	Zip	
	Load AMT V3:	Folder	Zip	
	Load PBS:	Folder	Zip]
	For SNOMED/AMT data For PBS data vitit this we PBS xML file (ZIP)			https://www.nehta.cov.au/Implementation-resources/ehealth- https://www.pbs.cov.au/browse/downloads
Remove old dataset	Compress DB			
				Close

In this example, the size of the database after compression is 484 MB.

End

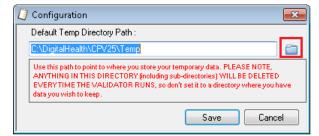
4.7 Configure the temporary file location

The Validator stores a set of files for a temporary period. By default these are stored in C:\DigitalHealth\CPV25\Temp although a different location can be selected if required.

1	To change the location used by the Validator to store temporary files, select the Configuration menu.
	[2] Clinical Package Validator v2.5
	File Configuration Help
	File : Select an input file to validate
	Template:
	Addn Rules: Select additional rules template folder for validation
2	Select Manage Temporary File Location.
	File Configuration Help
	Manage Templates
	Manage Terminology
	Manage Temporary File Location
	Template:
	Addn Rules: Select additional rules template folder for validation

3 Use the folder icon to browse for the folder.

Please note the text in **RED**. The Validator will delete every file and subfolder in this temporary folder, every time it runs. Do not set it to any folder that contains files you need to keep.



4 To save the new temporary file location, select **Save**.

Default T	emp Directory Path :
C:\Digital	Health\CPV25\Temp
	ath to point to where you store your temporary data. PLEASE NOTE, G IN THIS DIRECTORY (including sub-directories) WILL BE DELETED
EVERYTI	METHE VALIDATOR RUNS, so don't set it to a directory where you ha vish to keep.

End

4.8 Install a new version of the generic style sheet

1 The Validator is provided with version 1.3.0 of the generic style sheet (Generic CDA Style Sheet – stylesheet no CSS v1.3.0) to display clinical documents. This style sheet is available from the Agency's website³.

To install a different version of the generic style sheet, stop the Validator if it is already running.

Navigate to the folder where the Validator is installed (usually
 C:\DigitalHealth\CPV25) and select the Stylesheets subfolder.

🔾 🗢 📕 🕨 Computer	▶ Local Disk (C:) ▶ DigitalHealth ▶ CPV25 ▶			learch CPV.	25
Organize 👻 😭 Open	Include in library 👻 Share with 👻 New fold	er	:==	•	(
⊿☆ Favorites	Name	Date modified	Туре	Size	
🧮 Desktop	퉬 Data	6/01/2017 9:03 AM	File folder		
\rm Downloads	Resources	6/01/2017 9:00 AM	File folder		
🔛 Recent Places) Schematrons	23/12/2016 11:53	File folder		
	冯 Stylesheets	6/01/2017 9:00 AM	File folder		
🗅 🥽 Libraries	🌗 Temp	6/01/2017 9:00 AM	File folder		
	퉬 Templates	23/12/2016 11:54	File folder		
🛯 🜉 Computer	CPValidator.exe	6/01/2017 8:49 AM	Application	3,	470
🖻 🚢 Local Disk (C:)	CPValidator.exe.config	23/12/2016 11:35	CONFIG File		81

³ <u>https://www.digitalhealth.gov.au/implementation-resources/ehealth-reference-platform/EP-2463-2017/DH-2467-2017</u>

3 Locate and delete the **DH_Generic_CDA_Stylesheet** file from this folder and replace it with the new style sheet, using the same name.

🌀 🔵 🗢 📙 🕨 Computer 🕨	Local Disk (C:) DigitalHealth CPV25 Styles	heets	▼ 4, Se	arch Styles
Organize 👻 🔏 Open 👻	New folder		800 -	· 🔟 🔞
🖌 🔆 Favorites	Name	Date modified	Туре	Size
🧮 Desktop	CDAValidatorStylesheet.xsl	14/12/2016 1:40 PM	XSL Stylesheet	23
🐌 Downloads	E DH_Generic_CDA_Stylesheet.xsl	6/01/2017 8:44 AM	XSL Stylesheet	379
📃 Recent Places	PackageResultStyleSheet.xslt	14/07/2015 4:07 PM	XSLT File	71
	😰 PackageStylesheet.xsl	14/07/2015 4:11 PM	XSL Stylesheet	22
🛛 🥽 Libraries	schematron-Validator-report.xsl	27/05/2015 2:37 PM	XSL Stylesheet	51
	💼 skeleton1-5.xsl	27/05/2015 2:37 PM	XSL Stylesheet	22
4 🌉 Computer	TerminologyStyleSheet.xslt	27/05/2015 2:37 PM	XSLT File	6
🛛 🏭 Local Disk (C:)	TestDataStyleSheet.xslt	27/05/2015 2:37 PM	XSLT File	81

4 Start the Validator.

The Validator will now use the new version of the style sheet.

End

5 Troubleshooting

The Validator may display unexpected behaviour if its installation was unsuccessful. If this happens, follow the steps below.

- 1 Uninstall any previous versions of the Validator (Section 2.2).
- 2 Delete the C:\DigitalHealth directory and the temporary file location (Section 4.7).
- 3 Ensure the **Clinical Package Validator 2.5 Install.exe** file is on the desktop or a local drive (e.g. C:\).
- 4 Right-click the **Clinical Package Validator 2.5 Install.exe** file and select **Run as administrator**.

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- 5 Enter the admin password if requested.
- 6 Complete the installation of the Validator (Section 3).

End

Acronyms

Acronym	Description
AMT	Australian Medicines Terminology
CDA	Clinical Document Architecture. CDA is a trademark of Health Level Seven International and is registered with the United States Patent and Trademark Office
CSS	Cascading Style Sheets
DVA	Department of Veterans' Affairs
NASH	National Authentication Service for Health
PBS	Pharmaceutical Benefits Scheme
SNOMED CT	Systematized Nomenclature of Medicine Clinical Terms
SNOMED CT-AU	Systematized Nomenclature of Medicine Clinical Terms – Australia
SVT	Software Vendor Test environment
XML	Extensible Markup Language