

Clinical Package Validator Installation and Configuration Guide

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1 Introduction

1.1 Purpose

This document describes how to install and configure 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 7 or above;
- 4GB minimum memory;
- 8GB 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).

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

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.			
	Programs and Features			
	Are you sure you want to uninstall Clinical Package Validator?			
	In the future, do not show me this dialogue box Yes No			
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
To continue, click Next.

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

3	Sele

~	
Ð	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 (.P7B)
	Microsoft Serialized Certificate Store (.SST)

4 Enter the password and select Next.

P	rivate key protection
	To maintain security, the private key was protected with a password.
	Type the password for the private key.
	Password:
	1
	Display 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.
	☑ Indude all extended properties.

		×	
¢	Sertificate 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 the certificate.	location for	
	 Automatically select the certificate store based on the type of cert 	ficate	
	O Place all certificates in the following store		
	Certificate store:	Browse	
	Ne	t Cancel	

6 Select Finish.

•) 👙	Certificate Impo	ort Wizard	
	Completing t	he Certificate Import Wizard	
	The certificate will be	imported after you click Finish.	
	Certificate Store St	e rollowing settings:	
	Content	PFX	
	File Name	M:\VEHTA Projects\DTS\InstallShield\CPV24.Latest	80036299
	<		>
		Finish	Cancel
		Finish	Cancel

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

End

3 Installing the Validator and prerequisite software

3.1 Installing 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.

1 Locate the installer file (**Clinical Package Validator** x.y **Install.exe**, with "x.y" indicating the Validator's version number) and the **ISSetupPrerequisites** folder within the expanded .ZIP file that contained this guide.

Save the installer 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.
- The installer file and the ISSetupPrerequisites folder must be co-located.
- 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 installer file. Double-click the file to install the software.



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

4 Once the file is unblocked, continue installing the Validator by once again double-clicking the installer file.

		Preparing to Install	
	3	Clinical Package Validator Setup is preparing the Instal/Sheld Wizard, which will guide you through the program setup process. Please wait.	
6.3		Extracting: Clinical Package Validator.msi	

- 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**.
 - The prerequisite software will be installed. Clinical Package Validator - InstallShield Wizard Clinical Package Validator requires the following items to be installed on your computer. Click Install to begin installing these requirements. Status Requirement Pending Microsoft SQL CE 3.5 x86 Pending Microsoft SQL CE 3.5 x64 Cancel
- 8

7

When the InstallShield Wizard has completed opening, select Next.

₿	Clinical Package Validator - InstallShield Wizard		
	ک	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\CPVxy\ (where "xy" refers to the Validator's version number "x.y"). To change the install location, select the **Change** button and choose another location on the C: drive, if preferred.

😸 Clinical Package Va	alidator - InstallShield Wizard ×
Destination Folder Click Next to install to this folder, or clic	k Change to install to a different folder.
Install Clinical Package Valida C:\DigitalHealth\CPV27\	tor to: Change
InstallShield	
	< Back Next > Cancel

Once the preferred install location is chosen, select Next.

10 Select Install.

闄	Clinical Package Validator - InstallShield Wizard
Ready The v	y to Install the Program wizard is ready to begin installation.
If you exit t	u want to review or change any of your installation settings, click Back. Click Cancel to the wizard.
Curre	ent Settings:
Setu	ıp Type:
1	Typical
Dest	tination Folder:
0	C:\DigitalHealth\CPV27\
User	r Information:
1	Name: User
	Company:
InstallShie	eld
	< Back 👰 Install Cancel

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

۲	Do you want unknown pul	to allow the following program from an blisher to make changes to this computer?
	Program name:	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
(v) s	how details	Yes No

	-
😸 Clinical F	Package Validator - InstallShield Wizard 📃 💼 📧
Installing	Clinical Package Validator
The prog	gram features you selected are being installed.
12	Please wait while the InstallShield Wizard installs Clinical Package Validator. This may take several minutes.
	Status:
	Copying new files
InstallShield	

13 Once the Validator installation is complete, select **Finish**.

😸 Clinical Package Validator - InstallShield Wizard 🗾 💌
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Clinical Package Validator. Click Finish to exit the wizard.
< Back Finish Cancel
The Validator is now installed.

Note: During the installation process the Validator installation script will determine whether the prerequisite software is already installed on the computer. If the software is not already installed, the Validator 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 Validator 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.



Figure 1 - SQL error

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**.

		Welcome to the Microsoft SQL Server Compact Setup	
	1	Setup helps you install, repair or remove Microsoft S Compact. To continue, dick Next.	QL Serve
1		WARNING: This program is protected by copyright la international treaties.	w and

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**.

Ready t	o Install the Program
Setup is	s ready to begin installation.
Click In	stall to begin the installation.
If you we wit Set	want to review or change any of your installation settings, dick Back. Click Cancel t tup.
Installatio	on Path
Installatio	on Path am Files (x86)\Microsoft SQL Server Compact Edition\

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

2	Do yo softw	ou want to allow are on this com	v the followin nputer?	g program	to install
	Program name: SQL Server Verified publisher: Microsoft File origin: Hard drive			npact 3.5 SP2 coration his computer	
\bigtriangledown	how deta	ils		Yes	No

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

B	Micros	oft SQL Server Compact 3.5 SP2 ENU
		Completing the Microsoft SQL Server Compact Setup
	5	Setup has installed Microsoft SQL Server Compact successfully Click Finish to exit.
	V	
		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 Configuring 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.
Fnd	

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

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

3

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.

There may be a delay of several seconds 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**.



	Template Manager		- 🗆 🗙
Manage Templates			
NASH Test Certificate			
Templates Packages		Local Template Packages	
	Import set	scted >	
	Import		
	Inport		
Defeat for SVT		Add Gran Zo Ella Dalata	
renear from 5 v f		Add Holli 2p hie Dalate	
			Close

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.



2

Select Manage Templates.

		Clinical Package Val
File	Configuration Help	
	Manage Templates	
	Manage Terminology	C
	Manage Temporary File Location	
Temp	nplate:	v
Addn F	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.

ISH Test Cettficate CN-general 8003629900019338.id	electronichealth net au, O+MEDTE	STORGS8120, DC+80036299000	19338, DC+id, DC+electronichealth, DC+net, DC+au	
mplates Packages			Local Template Packages	
		Import selected > Import all >>		
Refresh from SVT			Add From Zip File Delete	

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

	Template Manager	-	• • ×
Manage Tem Configuration	nplates		
NASH Test Centricate	CN-general 800362990019338 id electronichealth net au, O-MEDTESTORGSB120, DC-8003629900019338, DC-id, DC-electronic	heath, DC+net, DC+au	
informion MSH Test Cesficate (iemplates Packapes	Local Template Packager	,	
	Import anticidat (>)		
Refresh from SVT	Add from Zp 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.



6

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

	Template Manager -	
Manage Tem	plates	
NASH Test Cetificate	CN-general.8003629900018338.id.electronichealth.net.au, 0=MEDTESTORGSB120. DC+8003629900019338, DC+id. DC-electronichealth, DC+net. DC-au	
Templates Packages	Local Templete Packages	ESTORISSI DD, DC-805002950019338. DC-ed. DD-eke. DD-eke Local Templeis Polisigns exhing Templates https://www.com/completes/action/completes/a
	Refreshing Templates	
	Contacting Somer	
	Impost all >>	
Configuration Co		
		Close

7

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

	Template Manager		- U ×
Manage Templates Configuration NASH Test Cestricate [CN-general.8003525900013338.id electrosicheath net.au. Templates Packages	0-MEDTESTORGS8120. DC-80036299	00019338, DC+d, DC+electronicheath, DC+vet, DC+ Local Template Packages	N
Initial Control 12,251 2001 3001 3000 <th>import selected w</th> <th>Add from Zo File Deate</th> <th></th>	import selected w	Add from Zo File Deate	
			Close

Note: An Import all option is also provided.

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



Import template packages downloaded from the Agency website 4.4

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 not be unzipped.
3	To import the downloaded template package, select the Configuration menu.
	File Configuration Help File : Select an input file to validate Image: Configuration
	Template: V Addn Rules: Select additional rules template folder for validation

4 Select Manage Templates.



5 Select Add From ZIP File.

A hyperenant						
NASH Test Cettficate	CN+general 8003629900019338.id electroniche	ath net au, O=MEDTESTORGS	3120. DC=80036299000	19338, DC+id, DC+electronicheat	, DC+net, DC+au	
emplates Packages				Local Template Packages		
- Faderal 2 (12.36.1) - Raferal 3A (12.36.1) - Raferal 3A (12.36.1) - Raferal 3B (12.36.1) - Raferal 3B (12.36.1) - Raferal 3B (12.36.1) - Vert Summay 2 (12. - Vert Summay 3A (12.) - Vert Summay 3	001 1056 1,21002 29 we 28240 2001 1056 1,21003 1 we 144 2001 1056 1,21003 1 we 144 2001 1056 1,21003 1 we 15264 2001 1056 1,21003 2 we 15264 2001 1056 1,21003 2 we 15264 2001 1056 1,21003 2 we 15264 256 1,2001 1056 1,1672.3 (we 19) 256	~	Import selected > Import all >>			
Refresh from SVT				Add From Zip File Delet	•	

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 Centificate CN-rgeneral.8003629900019338.id.electronich	eath net au. O+MEDTESTORGS8120, DC+8003629900019338, DC+id, DC+electronicheath, DC+net, DC+au
Penglates Ped Sugars	Lot Timefin Religner Import Indication Import Inditintert Import Inditintert
Refresh from SVT	Event Sommary at (12.36 F2001 100 F16473 11 Ver 30524) Event Sommary at (12.36 F2001 1005 F16473 13 Ver 30576) Add from 2p File Delete

End

4.5 Delete template packages

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



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.

The Validator allows a user to import 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

4.6.1 Determine which terminology datasets are loaded



2 Select Manage Terminology.



- 3
- Select Refresh

Terminology		
rminology Management		
figuration and Runtime		
erminology DB File: Terminology DB.adf 450MB erminology Loadedi	Refeeth Refer the root folder after unstoping the terminology package. The subfolder should be the 256 Januare for SPCCHED/ANT, from Dec 2015 SPCCHED and ANT come in one file. The SPCCHED/ANT '3 new only apports this formate. ANT 'V a new longer supported.	r called i 'Lowd
	Load SNOHED(ANT v3: Folder Zp	Clear All SNOMED datasets
	Load PBS: Rolder Zp	Clear All PES datasets
	or use NCTS syndration feed https://www.healtherminologies.co	NCTS Syndication Feed
	Pine PBS sizes your this volumes, and wellow PBS 3049, V3 File (ZIP) https://www.obs.cov.au/browseldoy	vricarite
Remove old dataset	Compress D6	

4

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

Terminology			
erminology Management vrlgvatos avit Runtsne Terminology DB File: Terminology OB alf 45946 Refere	NG: Select the root folder other unsigning the terminology package. The subfolder should be called		
Terminologi Lodeki. Asamishi Madosen Terminologi (AMT): 2.56 Anamishi Mito Cara (Januari Markani Anthoneoni Anthoneoni Anthoneoni (Januari Markani Anthoneoni Anthone	DICHEDIANT v2 new only support the format. AMT v2 is no longer supported. Lead SNONED/AMT v3. Folder Zp Load PES: Folder Zp	Clear AI SNOMED detasets Clear AI PBS detasets	
	For SNOHED(ANT data visit this website or visit NCTS synchroten final for this provide metabolis, and askets for this provide metabolis, and askets	NCTS Syndication Feed	
	Convert 18		

- AMT version 2's final version was 2.56. After that AMT was included under SNOMED releases.
- 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.

End

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: <u>www.healthterminologies.gov.au</u>.

I Terminology		×
Terminology Management		
Configuration and Runtime		
Terminology DB File: Terminology DB.sdf 450MB Refresh Terminology Loaded:	No: Select the not folder after untipping the terminology package. The subfolder should be called RFIRelease for SNOMED/AMT. From Dac 2015 SNOMED and AMT come in one file. The load SNOMED/AMT v3 now only supports this format. AMT v2 a no komes supported.	
Australian Medicines Terminology (AMT). 2.56 Australian Medicines Terminology (AMT). http://snomed.info/srt/900062011000036108/version/20151130 Australian PBS Code, 20171101	Load SNOMED/AMT v3; Folder Zip Clear All SNOMED datasets	
SNOMED CT-AU, http://snomed.info/sct/32506021000036107/version/20180131	Load PBS: Folder Zip Clear All PBS datasets	
	For SNOMED/AMT data visit this website or use NCTS syndication feed https://www.healthterminologies.gov.au NCTS Syndication Feed	
	For PBS data viait this website, and select PBS XML V3 Fie (ZIP) <u>http://www.sbr.cov.au/browseldownloads</u>	
Remove old dataset	Compress DB	
		Close

2a 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 Australian Digital Health Agency	🕈 НОМЕ	🔊 LEARN	O ACCESS	F TOOLS	C REQUEST		
NCTS Home > Access							
Introduction to Access							
	C	ownload	Termino	oav			
SNOMED CT-AU	Ad	ccess terminology	downloads either a	as an RF2 release	bundle or in CSV/TSV	/ format below. FHIR	Resources
		ou must be logge	ed in to download.				
Download	Tł	nis material includ Iternational Health	es SNOMED Clinica Terminology Stand	l Terms™ (SNOME lards Developmen	D CT [®]) which is used t Organisation (IHTSI	d by permission of th DO). All rights reserv	ie ved.
Technical Guides	SI	NOMED CT [®] was o re registered trade	riginally created by marks of the IHTS	7 The College of A DO.	merican Pathologists	. "SNOMED" and "SN	OMED CT"
FHIR Resources							
RCPA							
	R Tř	F2 Release	Bundle provide links to do	wnload SNOMED C	T-AU and AMT combi	ned monthly release	versions in
Document Library	th	eir native RF2 dis cluding the SNOM	, tribution format. Li ED CT core termino	nked archives con logy files, the Aus	tain all of the relevar stralian Dialect Refere	nt terminology releas ence Set, and other	e data, reference
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Need Help?		SNOMED	-CT AU 31 De	ec 2016 (Cur	rent)		-
Recent Updates		4	SNOME	D CT-ALL 31 Dece	mber 2016 (PE2 EU		+
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Note down the Client ID and Client Secret.

3b Select the "NCST Syndication Feed" button.

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Australian Medicines Terminology (AMT), 2.56 Australian Medicines Terminology (AMT), http://snomed.info/sct/900062011000036108/version/20151130 Australian BRE Code 30/201301	Load SNOMED/AMT v3: Folder Zp Clear All SNOMED datasets	
SNOMED CT-AU, http://snomed.info/scr/32506021000036107/version/20180131	Load PBS: Folder Zip Clear All PBS datasets	
	For SNOMED/AMT data visit this website or use NCTS syndication feed <u>https://www.healthterminologies.gov.au</u> NCTS Syndication Feed	
	For PBS data visit this website, and select PBS XML V3 file (ZIP) <u>http://www.pbs.dov.au/browse/downloads</u>	
Remove old dataset	Compress DB	
		Close

3c

Select the folder icon 🖾 , browse to a temporary folder such as c:\temp and select ok.

Enter the Client ID and Client Secret noted down from the website (in step 3a), and then select "Get Releases". This will populate the listbox with the last 6 months of SNAPSHOT files.

Select the one required, and select "Download".

The progress bar will indicate the download speed. (This may freeze during download but just leave as when the download is complete it will update and show a full green bar).

NCTS Syndication Feed Download	×
Download Directory :	
E:\Terminology\SNOMED	
NCTS Client Id 00081476-0fb3-423c-9ca0-618ff8e4e222 NCTS Client Secret 11102ff2fc58-4718-9d2d-c4b95769c333 SNOMED CT-AU 31 January 2018 (RF2 SNAPSHOT) SNOMED CT-AU 31 December 2017 (RF2 SNAPSHOT) SNOMED CT-AU 30 November 2017 (RF2 SNAPSHOT) SNOMED CT-AU 31 October 2017 (RF2 SNAPSHOT) SNOMED CT-AU 31 October 2017 (RF2 SNAPSHOT) SNOMED CT-AU 31 August 2017 (RF2 SNAPSHOT)	Get Releases
Downloading (this can take 1-2 mins depending on connection).	Close

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".

Q	Terminology	×
Certification and Runtime Terminology DB File: Terminology/DB.sdf 331MB Terminology Laded: Terminology Laded: Australian Medica Terminology (AMT). 2.56 Australian Medica Terminology (AMT). 2.56 Australian DEC Crie Au), Intel/Innomed.info/ect/33250621800036187/version/20170930	NB: Select the not folder after unopping the seminology package. The subfolder should be called RF2Release for SNOMED/AMT , From De: 2015 SNOMED and AMT come in one file. The Load SNOMED/AMT v3: row only support the format. AMT v2 is no longer supported. Load SNOMED/AMT v3: Rober Zo Load PBS: Folder Zo Zo	
Remove old dataset	PBS XML file (21P) http://www.obs.sov.au/browsel/downloads Compress DB	

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**.

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

5

Look in:	🍌 temp 🗸 👻	G 🤌 📂 🖽 🗸	
Recent Places	Name	Date modified 6/01/2017 10:16 AM	Type Compre
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Libraries			
Computer			
	•)
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Network			

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

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Terminology Management						
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Aerove oli datase		Congress 58				
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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.

	Terminology					
erminology Management						
emology DB File Termology DB and 373HB eminology Loaded	Refrects	NB Select the root follow MTERelease for SNOHED SNOHED(ANT +7 new r	the unsight ANT, Prov My subjects	g the terris Dec 2015 5 the format	rology package. The subfolder should be called INCMED and AMT come is one file. The baild AMT v2 is no longer suggested.	
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		Re (NONDOXAT data Ro 1955 data visit this we RES XM, Re (22P)	rat file and	64 61	landen af an air air an	
Remove oil Geboot		Congress 58				

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

Since Oct 2016, the Agency has stopped releasing separate releases of AMT. AMT is now only released within the SNOMED release.

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	reminology	
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Australian Medicines Terminology (AMT): 2.56 Australian PBC Scott 2017/001 SNOMED CT-AU., http://finomed.info/scit/32506021000036107/version/20170930	Load SNOMED/AMT v3: Folder Zp Load PBS: Folder Zp	
	For SNOMED/AMT data visit the website <u>theory in www.sharthermitologies.cor.au</u> For PB5 call the visit website, and select PB5 XML file (ZIP) <u>http://www.pbs.cov.au/browseldownloads</u>	
Remove old dataset	Compress D8	
		Close

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 Pharmaceur Benefits S	tical cheme	A-21	Medicines FAQ Subscribe	Search for general PBS information Q ene or item number PBS MEDICINE SEARCH
PBS Information -	Browse the PBS -	For Health Professionals -	For Industry -	News +	Publications & Downloads -	Contacts
Browse by dow	/nloads					
PBS Download	ls					See also
Page last updated: 1 June 2015						PBS Publications
1 June 2015 • Errata to Schedule of Pl	narmaceutical Benefits (F	PDF 407KB)				PBS Statistics PBS Reviews Software Developers site
PBS Text files (ZIP 3.1 PBS XML file (ZIP 5.5 M	<u>MB)</u> 1 <u>B)</u>					
Archive						
Previous ASCII and XML files	can be accessed on th	Publications Archive age.				

3

Save a copy of the selected PBS XML file in the C:\temp directory or another local directory.

3		Sa	ve As			>
🐑 🏵 🔹 🕇 🚺	→ TI	nis PC → Downloads	v C	Search Download	5	Q
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Save as type:	All Fil	es (*.*)				
Hide Folders				Save	Cance	el

4 Import the downloaded PBS package ZIP file by selecting **Zip** for "Load PBS".

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Terminology Management		
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Australian Medicines Terminology (MMT). 3:56 Australian PSC doc. 2017/001 SNOMED CT-AU, http://incomed.info/pst/312566021000036107/version/20170930	Load SNOMED/AMT v2: Folder Zp Load PBS: Folder Zp	
	For SNOMED/AMT data visit this website <u>https://www.Asakhterminologies.cov.au</u> For PBS data visit this website, and elect PBS XML file (ZIP) <u>http://www.obs.cov.au/browsal/browsloads</u>	
Remove old dataset	Compress D8	
	Оом	,

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**.

			Open			×
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Recent places	2015-06-0	1.zip				15/04/2016 1:39
Desktop Libraries This PC						
	<					>
	File name:	2015-06-01.zip			~	Open
INETWORK	Files of type:	Zip Files (*.zip)			~	Cancel

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

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Remove old distant		Cinama 58
		Olime

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.

Ferminology Management Certorates and Rottine			
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Annova oli dotanti		Congress 58	

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 331MB Terminology Loaded:	Refresh NBI Select the root folder after unzipping the terminology package. The subfolder should be called RFZRelease for SNOMED/ANT. From Dec 2015 SNOMED and ANT come in one file. The Load SNOMED/ANT '19 movely support tile formar. ANT 22 are income supported.	
Australian Medicines Terminology (AMT), 2.56 Australian 755 Code, 3017301 SNOMED CT-AU, http://monmed.nfu/cc/32566021000036107/venion/20170930	Load SNOMED/AMT v2: Folder Zp Load PBS: Folder Zp	
	For SNOMED/ANT data visit this website <u>https://www.seathterminologies.cov.gu</u> For PBS data visit this website, and select PBS XML file (ZIP) <u>http://www.sbs.cov.au/browse/downbads</u>	
Remove old dataset	Compress DB	
		Close

2 Choose the dataset to be removed and select **Remove old dataset**.



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

Confirm the dataset is no longer present in the list of loaded datasets.



3

4 If the database has multiple versions of a terminology, they can be cleared out with just clicking the "Clear All..." buttons on the right side.

•		
Terminology Management		
Configuration and Runtime		
Terminology DB File: Terminology DB.sdf 450MB Terminology Loaded:	Refresh RF2Release for SNOMED/AMT. From Dec 2015 SNOME SNOMED/AMT. From Dec 2015 SNOME	package. The subfolder should be called ED and AMT come in one file. The 'Load v2 is no longer supported.
Australian Medicines Terminology (AMT). 2.56 Australian Medicines Terminology (AMT). http://snomed.info/sct/9000620110000	108/version/20151130 Load SNOMED/AMT v3: Folder Zip	Clear All SNOMED datase
Australian PBS Code, 20171101 SNOMED CT-AU, http://snomed.info/sct/32506021000036107/version/20180131	Load PBS: Folder Zip	Clear All PBS datasets
	For SNOMED/AMT data visit this website	NOTS Sundication Fe
	or use NCTS syndication feed http://www.commonwork.com/action/feed/http://www.commonwork.com/action/feed/http://www.com/action/feed/feed/feed/feed/feed/feed	tps://www.healthterminologies.gov.au
	For PBS data visit this website, and select PBS XML V3 file (ZIP) htt	zp://www.pbs.gov.au/browse/downloads
Remove old dataset	Compress DB	

TI-1-1-1oful if the databa ----....

End

1

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.

7 Terminology			
Terminology Management			
Configuration and Runtime			
Terminology DB File: Terminology DB.sdf 450MB	Refresh	NB: Select the root folder after unzipping the terminology package. The subfolder should be called RF2Release for SNOMED/AMT. From Dec 2015 SNOMED and AMT come in one file. The 'Load	
Terminology Loaded:		SNOMED/AMT v3' now only supports this format. AMT v2 is no longer supported.	
Australian Medicines Terminology (AMT), 2.56 Australian Medicines Terminology (AMT), http://snomed.info/sct/9000620110000361 Australian PBS Code. 2017/1101	08/version/20151130	Load SNOMED/AMT v3: Folder Zip	Clear All SNOMED datasets
SNOMED CT-AU, http://snomed.info/sct/32506021000036107/version/20180131		Load PBS: Folder Zip	Clear All PBS datasets
		For SNOMED/AMT data visit this website or use NCTS syndication feed <u>https://www.healthterminologies.gov.au</u>	NCTS Syndication Feed
		For PBS data visit this website, and select PBS XML V3 file (ZIP) http://www.pbs.gov.au/browse/download	
L			
Remove old dataset		Compress DB	

In this example, the size of the database before compression is 831 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.
---	--

iguration and Runtime		
rminology DB File: Terminology/DB.sdf 450MB Refresh rminology Loaded:	NB: Select the root folder after unapping the terminology package. The subfolder should be called RF2Relates for SNOMED/ANT. From Dec 2015 SNOMED and AMT conte in one file. The 'Load SNOMED/AMT v3' now only supports this format. AMT v2 is no longer supported.	
straljan Medicines Terminology (AMT), 2.56 straljan Medicines Terminology (AMT), http://snomed.info/sct/900062011000036108/version/20151130 straljan PBS Code, 20071101	Load SNOMED/AMT v3: Folder Zip	Clear All SNOMED datasets
IOMED CT-AU, http://snomed.into/scz/32506021000036107/version/20180131	Load PBS: Folder Zip	Clear All PBS datasets
	For SNOMED/AMT data visit this website or use NCTS syndication feed <u>https://www.healthterminologies.gov.au</u>	NCTS Syndication Feed
	For PBS data visit this website, and select PBS XML V3 file (ZIP) http://www.pbs.cov.au/browse/downloads	
Remove old dataset	Compress DB	

In this example, the size of the database after compression is 331 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\CPVxy\Temp (where "xy" refers to the Validator's version number "x.y") although a different location can be selected if required.

To cha menu.	nge the location used by the Va	ilidator to store temporary files, select the Conf i	guratio
		Clinical Package Validator	
File Con	Select an input file to validate		
Template:		C	
Addn Rules:	Select additional rules template folder for validation		

2 Select Manage Temporary File Location.

		Clinical Package Vali
File	Configuration Help	
	Manage Templates	
	Manage Terminology	<u> </u>
	Manage Temporary File Location	
Temp	olate:	V
Addn F	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.

Configuration X
Default Temp Directory Path :
C:\DigitalHealth\CPV27\Temp
Use this path to point to where you store your temporary data. PLEASE NOTE, ANYTHING IN THIS DIRECTORY (including sub-directories) WILL BE DELETED EVERY TIME THE VALIDATOR RUNS, so don't set it to a directory where you have data you wish to keep.
Save Cancel

4	To save the new temporary file location, select Save .
	[] Configuration ×
	Default Temp Directory Path : C:\DigitalHealth\CPV27\Temp
	Use this path to point to where you store your temporary data. PLEASE NOTE, ANYTHING IN THIS DIRECTORY (including sub-directories) WILL BE DELETED EVERY TIME THE VALIDATOR RUNS, so don't set it to a directory where you have data you wish to keep.
	Save Cancel
End	

4.8 Install a new version of the generic style sheet

1 The Validator is provided with version 1.4.0 of the generic style sheet (Generic CDA Style Sheet – stylesheet no CSS v1.4.0) to display clinical documents. This style sheet is available from the Agency's website.³

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

2 Navigate to the folder where the Validator is installed (usually **C:\DigitalHealth\CPV**xy, where "xy" refers to the Validator's version number "x.y") and select the **Stylesheets** subfolder.

Computer > Local Disk (C:) > DigitalHealth > CPV2 > Search CPV25 P							
Organize 🔻 📜 Open 🛛 Include in library 💌 Share with 💌 New folder 🛛 🔠 💌 🗍 🔞							
🖌 🚖 Favorites	Name	Date modified	Туре	Size 🔺			
🥅 Desktop	퉬 Data	6/01/2017 9:03 AM	File folder				
🐌 Downloads	퉬 Resources	6/01/2017 9:00 AM	File folder				
💯 Recent Places	퉬 Schematrons	23/12/2016 11:53	File folder				
	퉬 Stylesheets	6/01/2017 9:00 AM	File folder				
District Contract	퉬 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 k			
🛛 🏜 Local Disk (C:)	CPValidator.exe.config	23/12/2016 11:35	CONFIG File	81 -			

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.

Orangina a Calorena a	the falter		att	PB	
Cillande . Sobei .	New folder		100		
* 🚖 Favorites	Name	Date modified	Туре	508	
E Desktop	CDAValidatorStylesheet.col	14/12/2016 1:40 PM	XSL Stylesheet.		239
😹 Downloads	@ DH_Generic_CDA_Stylesheet.ol	6/91/2017 8-44 AM	302. Stylesheet		3791
1 Recent Places	PackageResultStyleSheet.colt	14/97/2015 A-07 PM	XSLT File		13
	C PackageStylesheet.vol	14/07/2015 4:11 PM	XSL Stylesheet		22
> 词 Libraries	an ichematron-Validator-report.col	21/05/2015 2:31 PM	XSL Stylesheet		5
	💰 skeleton1-5.xsl	27/05/2015 2:37 PM	XSL Stylesheet		223
4 👭 Computer	Terminology/StyleSheet.colt	21/85/2815 2:37 PM	XSLT File		61
ELLocal Disk (C.)	TestDataStyleSheet.colt	27/05/2015 2:37 PM	XSLT File		

4 Start the Validator.

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

End

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

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 Installer file is on the desktop or a local drive (e.g. C:\).					
4	Right-click the Installer file and select Run as administrator.					
	File Edit View Tools Help					
	Organize 🔻 🧰 Open Burn New folder					
	Image: State Stat					
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
IHTSDO	International Health Terminology Standards Development Organisation
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 Mark-up Language