Webinar Overview

- Participants will know how to configure the CAT Plus suite to work with their clinical system and local set up
- Participants will learn how to trouble shoot the most common issues
- Participants will know where to get more information/resources

CAT4 – Clinical Audit Tool

CAT4 works alongside the practice management and billing software and is compatible with following clinical systems:

- ❑ **Medical Director Clinical**
- ❑ **Best Practice**
- ❑ **Genie**
- ❑ **Zedmed**
- ❑ Communicare
- ❑ Medinet
- ❑ Medtech
- ❑ MMeX
- ❑ Stathealth

CAT4 – Server Requirements

Server

	Minimum Requirements	Recommended Requirements
Operating System	Microsoft Windows Server 2008 R2 X64 Supported with Windows updates and registry changes Microsoft KB3140245 must be installed for TLS 1.2 support https://support.microsoft.com/en-ph/help/3140245/update-to-enable-tls-1-1and-tls-1-2-as-a-default-secure-protocols-in	Microsoft Windows Server 2012
Processor	Intel Pentium 4 single core	Quad Core CPU
RAM	4 GB	8 GB or more
Hard Disk	20G	250 GB
Microsoft .NET Framework	CAT4 requires the Microsoft .NET Framework version 4 to be installed prior to installing PCS Clinical Audit. This will be installed automatically if required when installing CAT or can be downloaded separately from the Microsoft website.	
Other Requirements		
	CAT4 uses an authentication mechanism that requires a persistent internet connection. It is recommended that you have a broadband internet connection to operate CAT4.	

CAT4 – Workstation Requirements

Workstation

	Minimum Requirements	Recommended Requirements
Operating System	Microsoft Windows 7 X64	Microsoft Windows 10 (Professional/Business/Ultimate) X64 or later
Processor	Intel Celeron single core	Quad Core CPU
RAM	4 GB	8 GB or more
Hard Disk	20 GB	250 GB
Microsoft .NET Framework	CAT4 requires the Microsoft .NET Framework version 4 to be installed prior to installing. This will be installed automatically if required when installing CAT or can be downloaded separately from the Microsoft website.	
Other Requirements	The computer used for data collection through CAT4 needs to have the clinical system installed.	
	PCS Clinical Audit uses an authentication mechanism that requires a persistent internet connection. It is recommended that you have a broadband internet connection to operate CAT4.	
	CAT4 uses a lot of memory and the provided minimum requirements will not be sufficient for larger practices with more than 5000 patients. We strongly recommend a 64 bit operating system and as much RAM as possible.	

TOPBAR

Topbar currently supports the following clinical systems:

- ❑ Medical Director Clinical

- ❑ Best Practice

- ❑ Zedmed

Topbar – Server Requirements

	Server	
Item	**Minimum**	**Recommended**
Operating System	Windows Server 2012	Windows Server 2012 R2 64 bit/Windows 8 64 bit or higher
Processor	Intel Core i3-2100/Core i5-2300/Core i7-920 or AMD equivalents	Intel Core i7-2600/Xeon E5502 or better or AMD equivalents
RAM	8GB	16GB
Hard Disk	1GB	10GB
Monitor		
.NET	4.6 2.0*	4.6 2.0*
SQL	Existing installations: Microsoft SQL Server 2008 R2 New installations: Microsoft SQL Server 2014	Existing Installations: Microsoft SQL Server 2012 New installations: Microsoft SQL Server 2014 or higher
Network	100Mbit	1Gbit

Topbar – Workstation Requirements

Item	Client Minimum	Recommended
Operating System	Windows 8	Windows 10 64 bit
Processor	Intel Core i3-530/Core i5-750/Core i7-860 or AMD equivalents	Intel Core i3-2100/Core i5-2300/Core i7-920 or better or AMD equivalents
RAM	4 GB	8GB
Hard Disk	1 GB	1GB
Monitor	17" running 1080p	22" running 1080p
.NET	4.6 2.0*	4.6 2.0*
Network	100Mbit	1Gbit

Compatibility Matrix

Clinical Information System	CAT4	Scheduler	Topbar	PIP QI*
Medical Director	Yes	Yes	Yes	Yes
Best Practice	Yes	Yes	Yes	Yes
Zedmed	Yes	Yes	Yes	Yes
Communicare	Yes	Yes		Yes
Genie	Yes	Yes		Yes
Specialist Complete	Yes	Yes		Yes
PrimaryClinic (Medinet)	Yes	Beta testing		Yes
MedTech32	Yes			Yes
MMEX	Yes			
practiX	Yes			
StatHealth	Yes	Yes		Yes

Billing Information System	CAT4	Topbar
Pracsoft	Yes	Yes
BP Management	Yes	Yes
Zedmed	Yes	Yes
Communicare	Yes	
Mediflex	Yes	
MedTech32	Yes*	
Medilink	Yes	
MMEX	Yes*	
practiX	Yes*	
Medinet		
Genie	Yes	
The Practice	Yes^	

CAT4 Installation

There are 3 different ways to install CAT4:

❑ Click-once installer for workstations (preferred option)

  http://install.pencs.com.au/ClickOnce/CAT4/publish.htm

❑ MSI installer

❑ Scheduler installer (done by Pen CS support on practice

  server

Key configuration steps

GP Application	Medical Director 3
Extract Directory	C:\ClinicalAudit
Saved Filters Directory	C:\ClinicalAudit\SavedFilters
Saved Program Views Directory	C:\ClinicalAudit\SavedProgramViews
Saved Views Directory	C:\ClinicalAudit\SavedViews
Practice ID	
Practice Name	
Practice Postcode	
Patient Consent Withdrawn File Directory	C:\ClinicalAudit\Settings
Patient Consent Withdrawn File Directory Note	It is recommended that this directory is set to a shared folder that all CAT users have access to.
Run CAT in 64 bit mode	Yes

TOPBAR Installation

- To install Topbar server component, you require to schedule a Topbar server installation using our Online Booking Portal: https://www.pencs.com.au/support/online-booking/

- To install the Topbar workstation component, follow the steps in this guide: https://help.pencs.com.au/display/TTG/Client+installation+steps

- Topbar is a profile based application and by default, Topbar will be installed to: <USER PROFILE>\<APPDATA>\PCS\PCS Desktop
- Ports that need be added in to the Firewall of the Server,
    - For Topbar (PCS Clinic Service All Profile): 8086
    - For PCSDB : 42730

CATPlus

PenCS

Firewall/Security Issues

- URLs that need to be added to trusted sites or firewall exception to enable license authentication and installation:
    - https://auth1.pencs.com.au
    - https://auth2.pencs.com.au
    - http://install.pencs.com.au/ClickOnce/CAT4/publish.htm

Other Issues

Memory use for Topbar –
- estimated load on server ~ 200MB/user on server
- Resolution issues Topbar – monitor requirements
  - Full HD
- CAT extracts and server load
  - Extract size 1MB/1000 patients, de-identified `10MB/1000 patients
  - During extraction high CPU load and high memory needs, depending on patient numbers but recommended to run out of business hours

Resources

- www.help.pencs.com.au
- www.vimeo.com/pencs
- www.pencs.com.au/support/webinars/