

IMPAC Cancer Registry

Oncology Data Management Systems

System Requirements

This document gives you the system requirements for:

- IMPAC METRIQ Integrated Oncology Data Management Solution
- Précis-Central Oncology Data Management

These requirements are also for MRS and Précis-Hospital customers that plan to upgrade to METRIQ.

Overview

IMPAC's facility and central cancer registry programs have to operate on Microsoft Windows® 2003 servers. The relationship between hard drive space and registry-only cases is approximately 13 K per case (100,000 cases would require about 1.8 GB of space). It is recommended that the server that hosts the database have two times the necessary space. This is for maximum caseload and optimal performance.

The customer site is responsible for these activities related to the cancer registry and data management environment:

- Procurement
- Installation
- Setup
- Maintenance
- Back-up



IMPAC is committed to an approach of continuous improvement for all of our products. These enhancements usually are necessary upgrades to processor (CPU) time and/or memory.

Your registry software will operate in a small registry or ASP environment with the minimum requirements shown below. IMPAC suggests that the recommended selections (shown in the right column) will enhance system performance. This places your registry appropriately for future enhancements upgrades.

IMPAC strives to keep this document current with specifications that offer the most satisfactory performance. Specifications will likely change as future versions are released. Contact IMPAC to make sure that this document is the most recent version available.

Network Workstation or Desktop PC Requirements

	Minimum & ASP Requirements	Recommended for all Required for METRIQ, MRS and Précis-Hospital Premier versions, Précis Central
CPU type	Intel® Pentium® III series AMD Athlon™ 64	Intel® Pentium® IV series or higher AMD Athlon™ 64 or higher
CPU speed	1 GHz	2 GHz
Hard disk	2 GB free-space always available 20 GB min*. capacity, 7200 RPM *database size dependency	> 2 GB free-space always available 20 GB min*. capacity, 7200 RPM *database size dependency
RAM	512 MB	1 GB or higher
Display	SVGA, 16 bit color Screen resolution of 1024 x 768	SVGA, 16 bit color Screen resolution of 1024 x 768 or higher
Printer	Microsoft Windows compatible Laser printer supporting PCL-5 or PostScript	

	Minimum & ASP Requirements	Recommended for all Required for METRIQ, MRS and Précis- Hospital Premier versions, Précis Central
Workstation OS	Windows XP Service Pack 2 with Windows Firewall disabled	
Software	Microsoft Internet Explorer® 6.x Microsoft Word® 2003 or 2007 Microsoft Excel® 2003 or 2007 Adobe® Acrobat Reader 5.0 WinZip® v 9.0	Microsoft Internet Explorer® 6.x Microsoft Word® 2003 or 2007 Microsoft Excel® 2003 or 2007 Microsoft Access® 2003 or 2007 Adobe® Acrobat Reader 5.0 or higher WinZip® v 9.0
Workstation security	Users need Power-User or higher security rights	
Other requirements	DVD-ROM Internet access for SSDI and DeathMatch™ functionality. If a proxy server is in use, an exception is applied to each workstation for connection to the IMPAC server for proper function of SSDI.	
International	Non-US versions of Windows® must be set to English regional English Language	



Monitor dimensions are not necessary. However, 19" monitors are preferred by clients who work in multiple sources while they abstract. They also use the IMPAC cancer registry and data management systems.

MS SQL Server™ Requirements

IMPAC's cancer registry systems have to operate on an MS SQL® 2000 or 2005 server. The customer site is responsible for procurement, installation, setup, maintenance and backup related to the MS SQL environment. IMPAC only guarantees to supply software and data files that are SQL server compatible. The minimum specifications presume that IMPAC's cancer registry system is the only SQL program that operates on the server. Use the high-end specifications only as a guideline. Adjust requirements accordingly for the number and dimension of other SQL programs that operate on the server.

	Minimum	Recommended for all Required for METRIQ, MRS, Précis-Hospital, and Précis-Central
CPU type	Intel Pentium III series or higher (Intel or AMD)	Intel Pentium IV series or higher (Intel or AMD) multi-processor capable
CPU speed	800 MHz	> 2 GHz or greater
Hard disk	20 GB min*. capacity, 7200 RPM 4 GB or 10% free disk space (whichever is greater) *database size dependency	>20 GB min*. Capacity, 7200 RPM 4 GB or 10% free disk space (whichever is greater). RAID 5 SCSI with > 8GB free space always available. *database size dependency
RAM	768 MB or higher	> 1GB
Server OS	Windows 2003 (Service Pack 2 or higher)	
SQL	Microsoft SQL 2000 (Service Pack 3 or higher) or Microsoft SQL 2005 (Service Pack 1 or higher)	Microsoft SQL 2000 (Service Pack 3 or higher) or Microsoft SQL 2005 (Service Pack 1 or higher)
Backup	Backup storage system matching the fileserver storage capacity Archiving software	
LAN adapter	Ethernet adapter	
LAN wiring	100BT, full duplex to the desktop	
Other requirements	Internet capability and access (www & ftp)	



IMPAC's cancer registry and data systems' performance over a Wide Area Network (WAN) is dependent on network:

- *structure*
- *traffic*
- *setup.*



IMPAC recommends that you run hospital registry applications over Windows Terminal Services or Citrix® Metaframe XP.

Remote Access Requirements

For IMPAC standards, remote connection to a workstation is necessary on your network.

Two internet-based connections are permitted:

- WebEx (internet-based remote access) to a workstation.
- VPN connection (Microsoft or Cisco) through the internet on a workstation.

If IMPAC installed and/or configured the Microsoft SQL server, then a direct connection to the server is necessary.

ASP Remote Requirements

The Application Service Provider (ASP) model gives access to hospital and facility cancer registry software through the Internet. The database is hosted by IMPAC. The ASP applies Citrix® Presentation Server (thin client). It also applies the related Web Interface as a procedure to supply programs safely to the customer on the Internet.

Minimum registry desktop requirements (see page 1 of this document)	
Workstation	Each workstation must have high speed (broadband or cable) Internet access. Each Citrix client typically requires between 5 and 20 KB/s in available bandwidth.
Web Portal	The Citrix Presentation Server Web Interface automatically installs the correct client on initial log-in to the IMPAC web portal site. Or, MSI and EXE packages of this client can be downloaded and installed from Citrix's website.
Internet Explorer	Internet Explorer 6.0 or greater

Multi-ACCESS/MOSAIQ Connect Requirements

Recommended registry workstation requirements.	
Multi-ACCESS installations	Workstation with network access to Multi-ACCESS version 6.10 Connectivity to the Pervasive Multi-ACCESS database (Pervasive 2000i Service Pack 4 or v 8.x or higher) using a Data Source Name (DSN) is required.
MOSAIQ installations	Connectivity to the SQL Server MOSAIQ database is required.
	Workstation with network access to MOSAIQ v 1.x or higher
System requirements for Multi-ACCESS and MOSAIQ are not included in the scope of this document.	

PathConnect™ Requirements

Recommended registry workstation requirements must be met.	
Interface workstation	A dedicated interface workstation Intel Pentium IV or greater 1 GB of memory workstation
	Windows XP Professional
	Must be able to connect to the Registry SQL Server
Hospital Cancer Registry Application	METRIQ Premier v 1.00 or greater
Power Path version	PowerPath® v 9.4
Inbound Interface Manager (IIM)	V 1.5n
	IIM uses Microsoft .NET runtime version 1.1. The .NET runtime will be installed by IMPAC with the IIM.
Connectivity	Established connectivity between PowerPath (or other pathology database) application and IMPAC registry application.
Symphonia® license	

Questions?

Contact IMPAC at 1.800.356.2467 if you have a question in regards to IMPAC's cancer registry and data systems network configuration options.