

FRANCISCAN HEALTH SYSTEM PACS IMPLEMENTATION PROCESS

We are happy to provide the following information so your office may be outfitted for remote viewing of Franciscan imaging.

Hardware and System Requirements

Please review the hardware specifications below. It is important that your machines meet these minimum requirements in order for the system to perform properly. We recommend optimum specifications for maximum performance.

	Optimum Requirements			Minimum Requirements
	DI PACS Review	DI PACS – Diagnostic Requirements	CV PACS	DI/CV PACS
Processor	Pentium 4 or higher	Pentium 4 or Xeon	Pentium 4 or higher	Pentium II
Speed	2.6 GHz or higher	2.6 GHz or higher	2.0 GHz or higher	1 GHz
System RAM	2 GB or higher			512 MB (1 GB of RAM for a dual monitor configuration)
Available Hard Disk Space	4 GB or higher			2 GB
Operating System	<ul style="list-style-type: none"> • Microsoft® Windows Vista Business 64 bit (Service Pack 1) • Microsoft® Windows XP (Service Pack 3) • Microsoft® Windows Vista™ Home Premium (Service Pack 1) • Microsoft® Windows 2000 Professional (Service Pack 4) 			<ul style="list-style-type: none"> • Microsoft® Windows XP (Service Pack 2) • Microsoft® Windows 2000 (Service Pack 2)
Web Browser	Microsoft® Internet Explorer 7			
Resolution	2-MPixel (1600 x 1200)	<ul style="list-style-type: none"> • Two 1536 x 2048 (3 M-Pixel) portrait resolution grayscale monitors for extensive large matrix reading (CR,DX, etc.) • 5-Mpixel for digital mammography (GrayScale) 	1280 x 1024	1280 x 1024 resolution in 24 or 32 bit color mode.
Display	19" or larger LCD flat panel	20" or larger LCD flat panel grayscale, portrait or landscape	19" or larger LCD flat panel	19"
Network Interface	LAN: 10/100/1000 Mbps WAN: DSL or cable modem	LAN: 100/1000 Mbps WAN: DSL or cable modem (768 Kbps or better)		Same
Network Protocol	TCP/IP HTTP (LAN) HTTPS (WAN)			
Video Drivers	Compatible with monitor configuration	Compatible with monitor configuration	Compatible with monitor configuration	Compatible with monitor configuration

Performance

The performance of the PACS Web Viewer may be affected by the following:

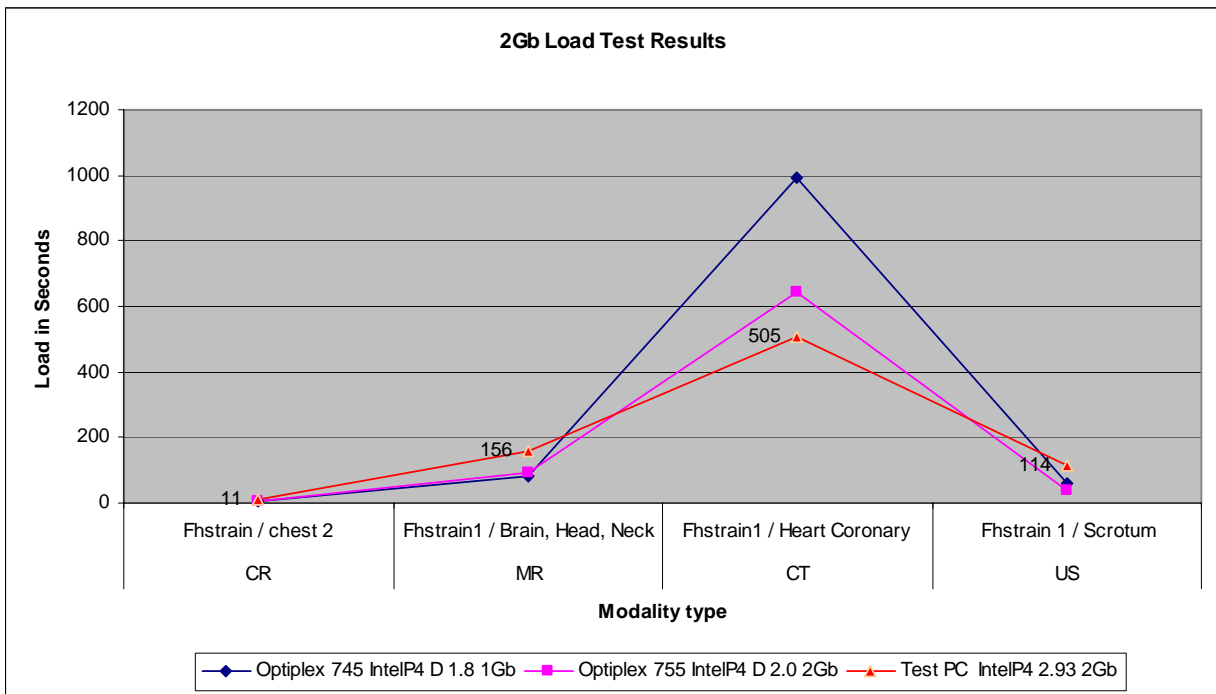
- Type of Internet connection you have (cable, DSL or wireless).
- Problems at your Internet service provider.
- Your computer hardware (processor speed, memory).
- The number of users on your local DSL line.
- The number of users on your local Internet service provider's network.
- The wiring between your computer and your Internet service provider.
- The number of cable splitters that you are utilizing along your Internet cable line.

PERFORMANCE TESTING

The following Performance Testing is an example of response time in seconds for retrieving and displaying WEB PACS images on different hardware configurations using the same test films.

Modality	File Name /Description	Optiplex 745	Optiplex 755	Test PC
		IntelP4 D 1.8 1Gb	IntelP4 D 2.0 2Gb	IntelP4 2.93 2Gb
CR	Fhstrain / chest 2	6	6	11
MR	Fhstrain1 / Brain, Head, Neck	80	95	156
CT	Fhstrain1 / Heart Coronary	995	645	505
US	Fhstrain 1 / Scrotum	60	40	114

As you can see the workstations meeting optimum requirements loaded the images faster.



This information is only provided to provide examples of load time based on hardware configurations using similar internet connections and are examples only.

Please work with your IT support team to remedy any issues with these network and hardware limitations.