Hardware and Network Requirements

The hardware, network, and infrastructure needed to ensure that your new system functions efficiently will include at least a broadband DSL line for connectivity, and integrated computers, printers and scanners that will comprise the physical components of your workflow's electronic "loop." As you work with your Children's Community Health Record implementation team, you will have the opportunity to discuss the design of your practice's system, and it will be Children's goal to minimize your front-end capital outlay and maximize the cost-effectiveness of your system over time. Per Federal law, Children's cannot offer funding to assist a practice in the purchase of any of these components.

The following represents hardware and infrastructure components for a typical practice – individual requirements will vary.

Equipment / Service	Qty.	Item Description	Model/Specifications/Comments
Telecom	One high speed internet connection per location	Business class DSL service or a T1 line will meet the needs of most practices A redundant connection can be established for high volume locations	Recommended 1 MB/S upload and download speed for every 10 users. **Note: You should plan for 15-20 kbps per ICA client in normal use. Functionality that causes additional file traffic (printing, image acquisition/retrieval, dictation audio), will require greater bandwidth**
Computers	One per provider One for every three front office staff	Laptops for providers Desktops for Practice Management staff	**Minimum specifications:** CPU – 1Ghz, RAM 256Mb, Video support for 1024 x 768 24bit Color, Mouse, Minimum disk space 100meg, and Windows XP SP3 or higher **Recommended specifications:** Intel Core 2 Duo E6550 processor, 2GB RAM, Integrated GMA3000 Video, Optical drive, 80Gb HDD, Optical wheel mouse, Windows XP SP3 or higher
Monitors	One per new computer purchased as a result of the site assessment	19" LCD Monitor	Epic is designed to work well with a single screen. Practices that use multiple applications simultaneously may choose to purchase an additional monitor for some workstations.

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Computer Software	One package per computer	Antivirus software is required for all computers connected to Children's network. In addition, most practices will choose to purchase software that allows the computers to be used for other office tasks (e.g. email, word processing, spreadsheets)	
Network Printer	One per practice	Includes network card and duplexer	45 pages per minute 200,000 pgs. monthly max Size - 16.5 x 17.8 x 14.8 in Example: HP CP2025N, or HP P4015N
Prescription Printer	One per practice	A dedicated printer to produce tamper resistant) prescriptions	Example: Star TSP800 Rx
Scanners	Practice Management Clinical	Multiple models available – specific model depends on expected practice scanning volume	Determined at assessment
Wireless Network	**Not required**	If Providers desire to move laptops between offices and exam rooms, secure wireless access points can be added	Number and type of wireless access points determined during site assessment Recommendation: 128 WEP wireless encryption
Network Equipment	**If Needed**	**Network equipment already installed in most offices will be adequate for Epic. A network switch and/or routers may be needed for offices without a pre-existing network**	**Number and type of network switches/hubs to be determined during site assessment**