Technical Specification Requirements

For Independent Physician Practices
Implementing *one*Chart EMR

Hardware Agreement

Minimum Equipment Specifications

Suggested Hardware Equipment & Network Vendors

Suggested Wiring Vendors

Internet Provider Contact Information

Hardware Agreement

Beaumont Health does not offer infrastructure as part of the EMR subsidy associated with the donation program. The practice needs to have an IT Vendor in place that Beaumont Ambulatory can work with. All costs associated with these items (with the exception of Dragon microphones) are the responsibility of the practice. This includes laptops, PCs, printers, and scanners.   Costs for leasing Dragon 360 microphones will be included in the contract. Beaumont IT will partner with your office and your IT vendor to establish a Virtual Private Network (VPN) connection to support the *one*Chart system. The practice will be held responsible for all hardware installations. Costs associated with installation may include the following:

- Installation charges for electrical requirements, cable and phone connections for the system Networking design, and administration charges related to the set-up and service of client's network

- Hardware onsite installation and maintenance. (Estimated life expectancy on hardware is 5 to 7 years depending on equipment)

- Third-party software maintenance for products not provided by the vendor

- Correcting errors that result from changes you or a third-party made to the software. This applies primarily to client-server agreements

- Backup capabilities. This applies primarily to client-server agreements.

In order to support the Epic system inside your organization, a minimum Internet speed of 75Mbps down and 15Mbps up must be provided. Please note that Comcast Business recommends 75 package for 5-7 employees. A static IP address is required from your Internet Service Provider for our VPN firewall. This will involve an additional charge with your Internet Service Provider.

The hardware and networking requirements must be installed at least six weeks prior to your scheduled Go-Live. If your office is not able to comply with this requirement, your *one*Chart implementation will be delayed with your go-live being rescheduled to a future time dependent on current commitments and implementation volumes.

Minimum Equipment Specifications for Ambulatory Electronic Medical Record

Note regarding **MAC (Apple)** - All MACs can be used to access Epic portal via Citrix Receiver and print both server and local based jobs (although local printing has been found to be challenging if not an experienced user).   Dragon 360 and Epic scanning is not and will not be supported. MAC Operating Systems updates will also break Citrix version unless the application is updated at the same time.

Note regarding **Chromebooks** - Chromebooks will not be supported. Citrix Workspace can be installed and Beaumont portal accessed, but server printing cannot be configured.

Note regarding **Billers** - Need to have an HP Printer, supported in the Citrix environment.
Refer to http://h10032.www1.hp.com/ctg/Manual/c03635702 for supported printers.

Name	Description	Image
22" or higher wide screen LED LCD"	High Resolution: 1680x1050 for 22" 1920x1080 for 24"	
Small Form Factor Desk-top PC	Intel 8th Gen Core i5 or higher Windows 8 or 10 Hard Drive or SSD 8 GB RAM or higher DVD ROM (optional) Keyboard & Mouse	
All-in-one Desktop PC (NON touch)	Intel 8th Gen Core i5 or higher Windows 8 or 10 22-inch W/LED Full HD All-in-One Display Hard Drive or SSD 8 GB RAM or higher DVD ROM (optional) Keyboard & Mouse	
Ultrabook Laptop	Intel 8th Gen Core i5 or higher Windows 8 or 10 128GB SSD or higher 8 GB RAM or higher USB Type-A 3.0	

Minimum Equipment Specifications for Ambulatory Electronic Medical Record

Name	Description	Image
Laptop	Intel 8th Gen Core i5 or higher Windows 8 or 10 Hard Drive or SSD (Recommend) 8 GB RAM or higher USB Type-A 3.0 DVD ROM (optional) Integrated Webcam (optional)	

NOTE: The following laser printer (below) is the only printer compatible with OneChart. (Printer has been tested & configured to work with Epic EMR).

A direct network line must be available and active from the point of the Internet Service Providers modem to the location of the printer.

Offices will have two types of print jobs:

1. Epic Server printing

   Epic server printing is dedicated to printing through the VPN using the HP-M608 printer.

2. Local printing

   Local printing can be directed to any printer in the office. If the HP M-608n is to be used for local printing a USB Jet Direct Box will have to be purchased.

Name	Description	Image
HP Laser Jet Enterprise M608 Printer 1 paper tray **NEED A DIRECT ACTIVE NETWORK LINE AVAILABLE**	Automatic Duplexing: Optional Max Print Speed: 65 ppm Max Resolution (B&W): 1200 x 1200 dpi Media Handling: 100-sheet multipurpose tray, 550-sheet input tray Compatible with Epic EMR *Note: HP printers come only with a starter toner cartridge. Please order a replacement cartridge.*	
HP Jetdirect 3000w NFC/Wireless Accessory (J8030A) Note: WIFI is required in the office to use this model.	Network Types: Wireless (802.11b/g) Ports: 1 Hi-Speed USB 2.0 1 Wireless Ethernet Print Server Type: External, HIP2	

Minimum Equipment Specifications for Ambulatory Electronic Medical Record

Name	Description	Image
Zebra ZD410 (with Ethernet Module) Direct Thermal Printer Part Number: ZD41022-D01E00EZ	Ultra-Compact and Economical, bar code printer. Print Method - Direct Thermal - No Ribbons! Print Resolution - 203 & 300 dots per inch options. Print Speed - up to 6 inches per second depending upon resolution. Print Width - up to 2.2 in. wide. Memory - up to 256MB SDRAM & 512MB Flash. Warranty - 12 month Mfg Printer Warranty & 6 month Mfg Print Head Warranty.	
Panasonic KV S1027C Scanner **SCANNER MUST BE CONNECTED TO A WIRED DEVICE** **NO WIFI SCANNING**	Type: Sheet fed Resolution: 600 dpi Feature: Duplex Scan speed (monochrome): 45 ppm (mono) Scan speed (color): 45 ppm (color)	
Honeywell Xenon XP 1950h Barcode Scanner Corded Area - Imaging Scanner Part Number: 1950HSR-5USB-N	Full Specs http://cdn.barcodesinc.com/themes/barcodesinc/pdf/Honeywell/xp-1950h.pdf	
Honeywell Xenon XP 1952h Barcode Scanner Cordless Area - Imaging Scanner Part Number: 1952HSR-5USB-5-N	Full Specs http://cdn.barcodesinc.com/themes/barcodesinc/pdf/Honeywell/xp1952h.pdf	

Cordless Barcode Scanner Set-up: With the first use, the scanner **must** be linked to the base. Scan the pairing bar code that is located on the back of the scanner base. The scanner will automatically initiate the linking process without placing the scanner into the base. Once finished, the scanner will emit a single beep. This is a one-time set-up only.

Cordless and Corded Barcode Scanner(s) QR (quick response) Scanning : (1) Hold the scanner over the bar code (2) pull the trigger (3) center the aiming beam on the bar code   *Note-The aiming beam is smaller when the scanner is closer to the code and larger when it is farther from the code. Hold the scanner close to smaller bar codes, and farther away from large bar codes to get a proper read .*

Suggested Hardware Equipment & Network Vendors

Company	Contact Name(s)	Contact Information
Micro Wise	Raj Jaggi Office: 248-350-0066 Email: Raj@microwise.net	21421 Hilltop Street #4 Southfield, MI 48033 248-350-0066 www.microwise.net
Cutting Edge Computers	Sean Kennedy Direct: 248-484-4074 Email: skennedy@cecpower.net	1671 Highwood East Pontiac, MI 48340 248-462-7000 Sales@CECPower.net
Techworx LLC	Paul Ference Office: 248-952-0232 Email: pmf@techworxllc.com	1301 W Long Lake Rd, Suite 200 Troy, MI 48098 248-952-0231 twfix.us
Card Solutions, Inc. (Honeywell Scanners)	Chad Avey Sales and Service Manager Office: 248-616-0790 Cell: 248-321-0977 Email: cavey@cardsolutionsusa.com	1209 Chicago Road, Troy, MI 48083 1-888-252-3777 www.cardsolutionsusa.com

Suggested Wiring Vendors

Company	Contact Name(s)	Contact Information
Compass Technology	Brian Sulkowski, RCDD Division Manager bsulkowski@compasstech-us.com	546 Twenty One Mile Road, Macomb, MI 48044 Mobile: 810-523-3709 Office: 586-598-7360 www.compasstech-us.com
Conti Technologies	John Darrah	6417 Center Drive Suite 110 Sterling Heights, MI 48312 586-274-4800
Shaw Systems & Integration (SSI)	Cliff Moore	22100 Telegraph Rd Southfield, MI 48033 313-215-0638

Internet Provider Contact Information

Please contact the Internet provider in your areas to confirm that you have the required level of service and equipment. Minimum Internet speed of **75 Mbps down** and **15 Mbps up** must be provided.

Company	Phone #
AT&T	800-288-2020
Spectrum Business	888-692-8635
Comcast Business	800-391-3000
Customer Support	855-609-3736
WOW Business	855-529-5410