Description	Brand	Model	Quantity
Servers - Production & Test[1], • (2) Dual-Core Intel Xeon processors or higher • 8GB RAM • 72.8 GB SAS HD w/Raid Configuration • DVD-ROM • video card capable of at least 1280x768 screen resolution • 10/100/1000 Ethernet • Windows Server 2008 SP2 32-bit • Microsoft Terminal Services and appropriate CALs (Client Access Licenses)	Standard	Facility Standard	2
Optional - Virtualization Envoronments[2] – Production & Test	VMware	V-Sphere	2
Workstation, Lap Top, or Tablet, PC[3] • Intel Core i5 processor or higher • 3 GB RAM • 40 GB SATA HD • 17" SVGA Color Monitor • Wireless Capability (optional on Workstation) • Windows 7 Professional Operating System • 10/100/1000 Ethernet • Terminal Service Client Access License, Browser (IE 6.0 or higher) • MDAC (version 2.8 or higher)	Standard	Facility Standard	As Required
VST Room Service Display Components[4] (for use with the VST Room Service Display Module only) • LCD Touch-Screen Monitor – 19"	Standard	Facility Standard	As Required
Laser Printer with PCL 5/6[5]	HP	4000 Series Or Better	As Required
Impact Printer[6]	Epson	LQ-590	As Required
Receipt Printer[7] (For use with Patient Room Service and Room Service Display Modules only) • with Connect IT Ethernet Interface	Epson	TM-T88V M129H	1 to 4
PDA (for use with VST Patient Bedside Menu Selection System),	HP iPAQ	HP IPAQ 200 Series	As Required
PDA Accessories Required • ActiveSync Required (current version) • Docking Station • Power and connection cables • Spare Battery • Tethered Stylus 3 pkt - 11-43912-03R	Microsoft	Ver. 4.5	As Required As Required As Required As Required As Required

Bar Code Scanner (For use with VST Inventory Control Assistant) **PDA Accessories Required** • ActiveSync Required (current version) • MC55 Starter Kit • Spare Battery • Tethered Stylus 3 pkt - 11-43912-03R	Motorola Microsoft Motorola Motorola Motorola	MC55 Ver. 4.5	As Required 1 As Required As Required As Required As Required
Wireless Wearable Terminal w/ Ring Scanner [8] (For use with VST Tray Tracking System) PDA Ring Scanner : Single Slot Cradle w/ Built in Recharger Slot: Wrist Mount: Rechargeable Battery - Standard: Tethered Stylus 3-Pack: ## Optional WT4090 Accessories Rechargeable Battery – Extended Life If getting multiple devices, recommend the 4-Slot Charging Station: If getting multiple batteries, recommend the 4-Slot Power Station: If there is a concern about skin irritation: Protective Sleeve: If worried about the screen: Protective Skin: Replacement Wrist Straps – Small: Replacement Wrist Straps – Regular: Replacement Wrist Straps – Large: Label Holder[9] (www.tedthorsen.com) or other brand.	Motorola WT4090-T2S1GER RS409-SR2000ZZR CRD4000-110UR SG-WT4023020-03F BTRY-WT40IAB0E Stylus-00003-03R BTRY–WT40IAB0H SAC4000-410CES SAC4000-410CR SG-WT4027050-01R SG-WT4024000-01R SG-WT4023221-01R SG-WT4023221-02R AG-SS-32		As Required As Required Per PDA As Requried Per PDA Optional Per PDA As Required As Required As Required As Required As Required As Required As Required As Required As Required

NOTES:

1 Server hardware specifications are stated at what is deemed to be the current computing industry minimum standard for "departmental" servers. Careful consideration should be given to the value of installing hardware with additional capacity.

Port Assignments are as follows:
• Port 80 – http (outbound)
• Port 3389 – rdp (inbound and outbound)
• Port 9100-9102 – HP JetDirect (Printers)
• Port 515 – lpd (Printers)
• Port 17### - Interface

Access Requirements:
• Provide SSL or IPSec VPN tunnel for all access to servers from remote locations
• Enable Terminal Services so the servers can be accessed remotely
• Provide 2 separate HD partitions on which VST will be installed
• Provide IIS installed on all Windows Servers
• Provide file transfer access to all servers so updates and support can be sent
• Provide a printer list to VST so printers can be installed on the server
• Must allow local admin access on all VST background users

2 Virtualized environments can be deployed in place of dedicated server installations if desired.

3 Workstation, Lap Top, and Tablet PC hardware specifications are stated at what is deemed to be the current computing industry minimum standard for new PCs. However, it may be possible to use existing hardware with less capacity.

4 For the VST Room Service Display System, the facility is responsible for acquisition of the display monitors which must be installed on the same subnet. The facility will be responsible to provide all "network drops" for all devices to support this module.

5 All printers utilized by VST must be available from the network via static IP address utilizing either an internal HP Jet Direct card or an external HP Jet Direct print server connected to all printers printing VST output. Printers to be specified at the time of purchase. Laser Printers are utilized for standard reports, menus, tray cards and BTS processes.

6 Character (Impact) printers are recommended for 1-Up label processing and interface messaging.

7 Thermal printers are utilized for room service processes. Typically, three or four receipt printers are used based on the method of operation. If the VST Room Service Display Module in use, one receipt printer is required at a minimum.

8 This device is intended for use in the tray assembly area. It is recommended for use by transport/delivery personnel for improved ergonomics. All devices are connected to the facility's WLAN.   Be sure the order includes all necessary power and associated USB cords. Check with your supplier for "bundled packages" where all of the basic components are grouped at a discount.

9 Label Holders are intended for permanent placement/display of Bar Code Tags on Delivery Carts, Checkpoints, and Nursing Stations.

UPS systems and backup equipment/software with an open file agent is the responsibility of the facility. The VST System is a mission critical 24X7X365 system. To ensure successful backups of all data, open file agents on the backup software is required.

Equipment configuration and pricing is subject to change at any time based on industry developments.