



# SuiteRx System Specifications

## October 2018

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### SUITERX LTC – LOCAL SERVER BASED SYSTEM

Database Server					
Component/Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55 MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM – Recommended	16 GB	32 GB	64 GB	64 – 128 GB	128 -160 GB
Memory / RAM – Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500 GB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	1 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	2 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 2 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)

Operating System	Windows® Server 2008, 2012 and 2016				
Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (mobile Delivery), 4431 (mRx)				
Notes	<p>What should not be run on the database server?            DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.</p> <p>The DB Server should not also function as a Web Server wherein the Web Portal is required. A separate Web Server should be provided if this is the case.</p>				

**Web Server / Pharmacy Portal**

- For Web Portal, MRx and Mobile Delivery only. A separate Web Server should be provided. DB Server should not function as a Web Server.
- If only the Mobile Delivery of MRx is required then there is no need for a Web Server. Both apps can be setup at the Database Server.

Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2008 or 2012	Windows® Server 2008 or 2012
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<b>IIS 7/8 should be added to server role.</b> <b>Static External IP Address is required and will be binded to domain name for the Web Portal.</b> <b>Domain name for the Web Portal is required. A subdomain can be used from an existing domain.</b> <b>SSL Wildcard Certificate for the domain/subdomain will also be required.</b>	

Workstations	Workstations Desktop / Laptop / Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6M Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6M Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	8 GB	16 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 7 Professional / Windows 10 Professional	Windows 7 Professional / Windows 8.1/ Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications			Recommended Specifications	
Wired Network	100 Mbps Ethernet or higher			1000 Mbps Ethernet or higher	
Internet Connectivity	1-10 Remote Users	11-25 Remote Users	26-50 Remote Users	51-99 Remote Users	100+ Remote Users
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

Peripherals	
Sybase Anywhere Database License	1 per concurrent user
Router	Secure encrypted connectivity (VPN) for communication between facilities is required using a VPN enabled router.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices should not be used for scanning but for printing only).
Label Printer	Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label) and Zebra GX430 Series.

Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol LS2208 or LS9203
Fax Server	Cloud-Based Fax (Sfax)
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 4.1 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS (with 3G or 4G capability)
mRx	Android or iOS SmartPhones
Supplementary Backup Application	NAS Drive with at least 500GB of disk space

\* Optional component

\*\* Standard requirement for internet service: Static IP, Latency: Minimum 50ms latency round trip ping packet. Packet Loss: Less than 1%.

Note: The following can contribute to system slowness: Firewall/Antivirus Software (even if virus scan is not running, it will scan each file that is downloaded and opened or scanned and saved.); Insufficient RAM Memory; Hard Drive Encryption; Multiple Network Switches; Slow Network/More traffic on network; Low Disk Space on system partition or working partition.



### SUITERX RETAIL – LOCAL SERVER BASED SYSTEM

Database Server					
Component/Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55 MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM – Recommended	16 GB	32 GB	64 GB	64 – 128 GB	128 -160 GB
Memory / RAM – Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500 GB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	1 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	2 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 2 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)
Operating System	Windows® Server 2008, 2012 and 2016				

Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)				
Notes	<p>What should not be run on the database server?            DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.</p> <p>The DB Server should not also function as a Web Server wherein the Web Portal is required. A separate Web Server should be provided if this is the case.</p>				

### Web Server / Pharmacy Portal

- For Web Portal, MRx and Mobile Delivery only. A separate Web Server should be provided. DB Server should not function as a Web Server.
- If only the Mobile Delivery of MRx is required then there is no need for a Web Server. Both apps can be setup at the Database Server.

Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)

Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2008 or 2012	Windows® Server 2008 or 2012
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<p style="text-align: center;"><b>IIS 7/8 should be added to server role.</b>  <b>Static External IP Address is required and will be binded to domain name for the Web Portal.</b>  <b>Domain name for the Web Portal is required. A subdomain can be used from an existing domain.</b>  <b>SSL Wildcard Certificate for the domain/subdomain will also be required.</b></p>	

Workstations	Workstations Desktop / Laptop / Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6M Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6M Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	4 GB	8 GB

Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 7 Professional / Windows 10 Professional	Windows 7 Professional / Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications			Recommended Specifications	
Wired Network	100 Mbps Ethernet or higher			1000 Mbps Ethernet or higher	
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

Peripherals	
Sybase Anywhere Database License	1 per concurrent user
Router	Secure encrypted connectivity (VPN) for communication between facilities is required using a VPN enabled router.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices should not be used for scanning but for printing only). Host-based printers will not work for Citrix/Terminal Server Environment.
Label Printer	Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label) and Zebra GX430 Series
Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol LS2208 or LS9203
Receipt Printer	Bixolon SRP 350II Series (USB Type with Drawer Kickout Connector) or Bixolon SRP 350III Series (USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems: For Local (TM-LBK750-HSB / TM-LBK766SE-HSB-R / TM-LBK57GC-HSB-R)
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)

Fax Server	Cloud-Based Fax (Sfax)
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 4.1 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS (with 3G or 4G capability)
mRx	Android or iOS SmartPhones
Supplementary Backup Application	NAS Drive with at least 500GB of disk space.

\* Optional component

\*\* Standard requirement for internet service: Static IP, Latency: Minimum 50ms latency round trip ping packet. Packet Loss: Less than 1%.

### SUITERX LTC - SELF HOSTED

Database Server					
Component/Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55 MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM – Recommended	16 GB	32 GB	64 GB	64 – 128 GB	128 -160 GB
Memory / RAM – Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500 GB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	1 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	2 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 2 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)

Operating System	Windows® Server 2008, 2012, and 2016				
Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (mobile Delivery), 4431 (mRx)				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.				

Terminal Server		
Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB



Operating System	Windows® Server 2008		Windows® Server 2008		
Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each				
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

### Web Server

- For Web Portal, MRx, and Mobile Delivery. A separate Web Server should be provided. DB Server should not function as a Web Server.
- If only the Mobile Delivery or MRx is required then there is no need for a Web Server. Both apps can be setup at the Database Server.

Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)

Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2008 or 2012	Windows® Server 2008 or 2012
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<p style="text-align: center;"><b>IIS 7/8 should be added to server role.</b>  <b>Static External IP Address is required and will be binded to domain name for the Web Portal.</b>  <b>Domain name for the Web Portal is required. A subdomain can be used from an existing domain.</b>  <b>SSL Wildcard Certificate for the domain/subdomain will also be required.</b></p>	

Workstations	Workstations Desktop / Laptop / Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6M Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6M Cache, 3.80 GHz, 4 cores)

Memory / RAM - Minimum	4 GB	8 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 7 Professional / Windows 8.1/ Windows 10 Professional	Windows 7 Professional / Windows 8.1/ Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications			Recommended Specifications	
Wired Network	100 Mbps Ethernet or higher			1000 Mbps Ethernet or higher	
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

Peripherals	
Sybase Anywhere Database License	1 per concurrent user
Router	<p>VPN Enabled Router (e.g. Sonicwall TZ100I)</p> <p>A VPN Tunnel Setup from Amazon to the Pharmacy is required. An IT Resource who's experienced in Site to Site VPN Setup will be working with SuiteRx to establish the tunnel. A secure encrypted connectivity (VPN) for communication between facilities is also required.</p>
Document Printer	<p>All printing will be tunneled through the VPN. A network printer is required with at least PCL5 compatibility. All-in-one devices should not be used for scanning but for printing only.</p> <p>Host-based printers will not work for Citrix/Terminal Server Environment.</p>
Label Printer	<p>Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label) and Zebra GX430 Series.</p> <p>All labels printers must be networked.</p>
Document Scanner	<p>Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanners are not supported.</p> <p>Unlimited TSScan license is needed.</p>
Barcode Scanner	Symbol LS2208 or LS9203
Fax Server	Cloud-Based Fax (Sfax)
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 4.1 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS (with 3G or 4G capability)

mRx	Android or iOS SmartPhones
Supplementary Backup Application	NAS Drive with at least 500GB of disk space

\* Optional component

\*\* Standard requirement for internet service: Static IP, Latency: Minimum 50ms latency round trip ping packet. Packet Loss: Less than 1%.

Note: The following can contribute to system slowness: Firewall/Antivirus Software (even if virus scan is not running, it will scan each file that is downloaded and opened or scanned and saved.); Insufficient RAM Memory; Hard Drive Encryption; Multiple Network Switches; Slow Network/More traffic on network; Low Disk Space on system partition or working partition.

### SUITERX RETAIL - SELF HOSTED

Database Server					
Component/Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55 MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM – Recommended	16 GB	32 GB	64 GB	64 – 128 GB	128 -160 GB
Memory / RAM – Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard D0072ive - Total Storage	500 GB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	1 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	2 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 2 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage)

Operating System	Windows® Server 2008, 2012 and 2016				
Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)				
Notes	What should not be run on the database server? DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.				

<b>Terminal Server</b>					
<b>Component</b>	<b>Minimum Specifications</b>			<b>Recommended Specifications</b>	
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)			Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	
Memory / RAM - Minimum	16 GB			32 GB	
Hard Drive - Total Storage	250 GB			500 GB	
Operating System	Windows® Server 2008			Windows® Server 2008	
Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each				
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				



**Web Server / Pharmacy Portal**

- For Web Portal, MRx and Mobile Delivery only. A separate Web Server should be provided. DB Server should not function as a Web Server.
- If only the Mobile Delivery or MRx is required then there is no need for a Web Server. Both apps can be setup at the Database Server/

Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)
Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2008 or 2012	Windows® Server 2008 or 2012
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx)	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<b>IIS 7/8 should be added to server role.</b> <b>Static External IP Address is required and will be binded to domain name for the Web Portal.</b> <b>Domain name for the Web Portal is required. A subdomain can be used from an existing domain.</b> <b>SSL Wildcard Certificate for the domain/subdomain will also be required.</b>	

Workstations	Workstations Desktop / Laptop / Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6M Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6M Cache, 3.80 GHz, 4 cores)
Memory / RAM - Minimum	4 GB	8 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 7 Professional / Windows 10 Professional	Windows 7 Professional / Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications			Recommended Specifications	
Wired Network	100 Mbps Ethernet or higher			1000 Mbps Ethernet or higher	
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

Peripherals	
Sybase Anywhere Database License	1 per concurrent user
Router	<p>VPN Enabled Router (e.g. Sonicwall TZ1001)</p> <p>A VPN Tunnel Setup from Amazon to the Pharmacy is required. An IT Resource who's experienced in Site to Site VPN Setup will be working with SuiteRx to establish the tunnel. A secure encrypted connectivity (VPN) for communication between facilities is also required.</p>
Document Printer	<p>All printing will be tunneled through the VPN. A network printer is required with at least PCL5 compatibility. All-in-one devices should not be used for scanning but for printing only.</p> <p>Host-based printers will not work for Citrix/Terminal Server Environment.</p>
Label Printer	<p>Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label) and Zebra GX430 Series.</p> <p>All labels printers must be networked.</p>
Document Scanner	<p>Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanners are not supported.</p> <p>Unlimited TSScan license is needed.</p>
Barcode Scanner	Symbol LS2208 or LS9203
Receipt Printer	Bixolon SRP 350II Series (USB Type with Drawer Kickout Connector) or Bixolon SRP 350III Series (USB Type with Drawer Kickout Connector).

Signature Pad	Topaz Systems: TM-LBK755-B-R. All type should have a credit card swiper attached to it.
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)
Fax Server	Cloud-Based Fax
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 4.1 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS (with 3G or 4G capability)
mRx	Android or iOS SmartPhones
Supplementary Backup Application	NAS Drive with at least 500GB of diskspace.

\* Optional component

\*\* Standard requirement for internet service: Static IP, Latency: Minimum 50ms latency round trip ping packet. Packet Loss: Less than 1%.

Note: The following can contribute to system slowness: Firewall/Antivirus Software (even if virus scan is not running, it will scan each file that is downloaded and opened or scanned and saved.); Insufficient RAM Memory; Hard Drive Encryption; Multiple Network Switches; Slow Network/More traffic on network; Low Disk Space on system partition or working partition.

### SUITERX COMBO – LOCAL SERVER BASED SYSTEM

Database Server					
Component/Number Of Users	1-10 Users	11-25 Users	26-50 Users	51-99 Users	100+ Users
Processor - Recommended	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)	Intel® Xeon® Processor E5-4669 v4 (55 MB Cache, 2.2 GHz, 22 Cores)
Processor - Minimum	Intel® Xeon® Processor E5-1620 v4 (10MB Cache, 3.50 GHz, 4 cores)	Intel® Xeon® Processor E5-1650 v4 (15MB Cache, 3.60 GHz, 6 cores)	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)	Intel® Xeon® Processor E5-2698 v4 (50MB Cache, 2.2 GHz, 20 Cores)
Memory / RAM – Recommended	16 GB	32 GB	64 GB	64 – 128 GB	128 -160 GB
Memory / RAM – Minimum	8 GB	16 GB	32 GB	64 GB	128 GB
Disk Configuration	RAID 1 or RAID 5				
Hard Drive - Total Storage	500 GB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	1 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 500 GB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	2 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	3 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 1 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)	4 TB SCSI 15K RPM or SSD (Dedicated IPS Drive) 2 TB SCSI 15K RPM or SSD (Dedicated Backup Drive) (Should be capable of adding more storage and both drives should be separate aside from the Windows System Drive)
Operating System	Windows® Server 2008, 2012 and 2016				

Sybase Anywhere Database License	1 License				
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each	2 NIC, 2 ports each	2 NIC, 2 ports each	2 NIC, 2 ports each
Backup Solution	Backup on external hard disk or tape. (Online / offsite backup is recommended.)				
Internet Connectivity	Broadband or Fiber Internet connection required for online services.				
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx).				
Notes	<p>What should not be run on the database server?            DNS server, Domain Controller, Router, File and/or print server, Terminal Services/Citrix Services.</p> <p>The DB Server should not also function as a Web Server wherein the Web Portal is required. A separate Web Server should be provided if this is the case.</p>				

### Web Server / Pharmacy Portal

- For Web Portal, MRx and Mobile Delivery only. A separate Web Server should be provided. DB Server should not function as a Web Server.
- If only the Mobile Delivery of MRx is required then there is no need for a Web Server. Both apps can be setup at the Database Server.

Component	Minimum Specifications	Recommended Specifications
Processor	Intel® Xeon® Processor E5-2640 v4 (25MB Cache, 2.40 GHz, 10 Cores)	Intel® Xeon® Processor E5-2683 v4 (40M Cache, 2.1 GHz, 16 Cores)

Memory / RAM - Minimum	16 GB	32 GB
Hard Drive - Total Storage	250 GB	500 GB
Operating System	Windows® Server 2008 or 2012	Windows® Server 2008 or 2012
Internet Connectivity	Broadband Internet connection with static IP address required for online services.	Broadband Internet connection with static IP address required for online services.
Router (Ports)	Ports Forwarding is required for ports 443 (Web Portal), 4430 (Mobile Delivery), 4431 (mRx).	
Network Card / Ports (1000Mbps)	2 NIC, 1 port each	2 NIC, 1 port each
Notes	<p style="text-align: center;"><b>IIS 7/8 should be added to server role.</b>  <b>Static External IP Address is required and will be binded to domain name for the Web Portal.</b>  <b>Domain name for the Web Portal is required. A subdomain can be used from an existing domain.</b>  <b>SSL Wildcard Certificate for the domain/subdomain will also be required.</b></p>	

Workstations	Workstations Desktop / Laptop / Tablet PC	High-Usage Workstations (Scanning and Front Desk, Triage)
Component	Minimum Specifications	Recommended Specifications
Processor	7th Generation Intel® Core™ i5-7500T Processor (6M Cache, 2.70 GHz, 4 cores)	7th Generation Intel® Core™ i5-7600K Processor (6M Cache, 3.80 GHz, 4 cores)



Memory / RAM - Minimum	LTC: 8 GB Retail: 4 GB	LTC: 16 GB Retail: 8 GB
Hard Drive - Total Storage	120 GB	250 GB
Operating System	Windows 7 Professional / Windows 10 Professional	Windows 7 Professional / Windows 10 Professional
Network Card	100 Mbps	100 Mbps

Network Infrastructure					
Component	Minimum Specifications			Recommended Specifications	
Wired Network	100 Mbps Ethernet or higher			1000 Mbps Ethernet or higher	
Internet Connectivity	<b>1-10 Remote Users</b>	<b>11-25 Remote Users</b>	<b>26-50 Remote Users</b>	<b>51-99 Remote Users</b>	<b>100+ Remote Users</b>
	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 50 Mbps Download /20 Mbps Upload Speed	Broadband or Fiber Internet connection with at least 100 Mbps Download /40 Mbps Upload Speed	Broadband Internet connection with at least 250 Mbps Download /100 Mbps Upload Speed	Broadband Internet connection with at least 1 Gbps Download /250 Mbps Upload Speed
Notes	<b>8 RDP Users per Terminal Server</b>				

Peripherals	
Sybase Anywhere Database License	1 per concurrent user
Router	Secure encrypted connectivity (VPN) for communication between facilities is required using a VPN enabled router.
Document Printer	PCL5 or higher compatible network printer (All-in-one devices should not be used for scanning but for printing only). Host-based printers will not work for Citrix/Terminal Server Environment.
Label Printer	Zebra ZT41042-T010000Z - NO CUTTER (for perforated labels), Zebra ZT41042-T210000Z - WITH CUTTER (for continuous label) and Zebra GX430 Series
Document Scanner	Fujitsu FI-6130, Brother ADS 2000 or any scanner with TWAIN compatible drivers. Network scanner not supported.
Barcode Scanner	Symbol LS2208 or LS9203
Receipt Printer	Bixolon SRP 350II Series (USB Type with Drawer Kickout Connector) or Bixolon SRP 350III Series (USB Type with Drawer Kickout Connector)
Signature Pad	Topaz Systems: For Local (TM-LBK750-HSB / TM-LBK766SE-HSB-R / TM-LBK57GC-HSB-R)
Cash Drawer	MSCashDrawer CF-405 (must be receipt printer driven, check compatibility with Receipt Printer) or any Printer Driven Cash Drawer (check compatibility with Receipt Printer)

Fax Server	Cloud-Based Fax (Sfax)
Mobile Delivery Device	7" or 10.1" Tablets with Android OS 4.1 or higher (with 3G or 4G capability) or 10.1" Apple iPad with iOS (with 3G or 4G capability)
mRx	Android or iOS SmartPhones

\* Optional component

\*\* Standard requirement for internet service: Static IP, Latency: Minimum 50ms latency round trip ping packet. Packet Loss: Less than 1%.

Note: The following can contribute to system slowness: Firewall/Antivirus Software (even if virus scan is not running, it will scan each file that is downloaded and opened or scanned and saved.); Insufficient RAM Memory; Hard Drive Encryption; Multiple Network Switches; Slow Network/More traffic on network; Low Disk Space on system partition or working partition