

System Requirements

Hardware Requirements to Install and Run VendMax

Low Range Client	Mid Range Client	High-End Client
<u>Supports:</u> 1 to 10 front end VendMAX concurrent users and 1 to 10 simultaneously syncing handheld devices 1 to 10 Routes	<u>Supports:</u> 10+ front end VendMAX concurrent users 1 to 20 simultaneously syncing handheld devices. 1 to 20 Routes	<u>Supports:</u> 10+ front end VendMAX concurrent users 20+ simultaneously syncing handheld devices. 20+ Routes

Server Configurations

Server configurations are based on company size and the number of VendMax applications being serviced.

Supported SQL Server Versions	Supported Microsoft Operating System (assuming dedicated server running SQL Server)	Other software requirements
<u>Supported:</u> MS SQL Server 2012 SP2 MS SQL Server 2014 Standard MS SQL Server 2016 Standard	<u>Supported:</u> Windows Server 2012 R2 Windows Server 2016 Windows Server 2019	<u>Supported:</u> IIS: Internet Information Services (Windows Component) Version 7 or newer DOT NET Framework 4.5 or newer IE7 or higher

Not Supported:
 Microsoft Small Business Server 2008

Note on Virtualization: Virtualization has no impact on the VendMax Server as long as minimum requirements are met.

Basic VendMax

This server configuration will support VendMax + prekitting + remote dex. It supports DeliveryMax and FoodMax.

SQL Server Only

	Low Range Client	Low Range Client	Mid Range Client	Mid Range Client	High End Client	High End Client
	Minimum	Recommended	Minimum	Recommended	Minimum*	Recommended*
RAM	16GB	16GB	16GB	32GB	32GB	64GB
Free Space after OS installed	100GB	100GB	100GB	250GB	250GB	250 GB

* Requirement for High-End Server may vary based on number of routes, data utilization and hardware specifics

Full VendMax

This server configuration will support VendMax + prekitting + remote dex + advanced features. Advanced functionality includes applications: Alerts, Crane Cashless, Dynamic Scheduling, Merchandising, and DeliveryMax Auto-Billing.

SQL Server Only

	Low Range Client	Low Range Client	Mid Range Client	Mid Range Client	High End Client	High End Client
	Minimum	Recommended	Minimum	Recommended	Minimum*	Recommended*
RAM	16GB	32GB	32GB	64GB	32GB	64GB
Free Space after OS installed	100GB	250GB	100GB	250GB	250GB	250GB

Client Hardware Requirements

	Workstation Memory	
	Minimum	Recommended
VendMax Only	8GB	16GB
VendMax + Dynamic Dispatch	16GB	16GB

Client Software Requirements

Windows 10
 DOT NET 4.5 SDK
 MS Office 2003 or newer
 IE; Internet Explorer 7.0 or newer

Not Supported:

MS Office 365
 Windows XP

Note on Windows 7 and 8.1: These operating systems will work with VendMAX, but are outside Microsoft’s Mainstream Support.

Hardware Handheld Server Requirements

Supports the interface to VendMAX Handheld Server to synchronize handhelds to VendMAX.

	Low Range Client	Low Range Client	Mid Range Client	Mid Range Client	High End Client*	High End Client*
	Minimum	Recommend	Minimum	Recommended	Minimum	Recommended
RAM	8GB	16GB	8GB	16GB	16GB	32GB

Client Software Requirements

Windows 10
 DOT NET 4.5 SDK
 MS Office 2003 or newer
 IE; Internet Explorer 7.0 or newer

Not Supported:

Microsoft Small Business Server 2008

MS Office 365
Windows XP

Client Hardware Requirements

Multi-port Network Hub (if attaching more than one Ethernet handheld cradle)

Communication

Any component of our application can use the internet since they all communicate with TCP/IP. Customers run all parts of our application communicating over VPN or through firewalls with the appropriate ports open. The handheld devices use port 1000 by default, but the system can use any port.

Recommended SQL Server Setup & Maintenance

The following are recommendations on to set up your SQL server instance running VendMax. These are only recommendations that should be reviewed by customer's SQL Database administrator and/or qualified IT Professional. Streamware is not responsible for the installation, setup and/or maintenance of SQL Server Configuration and databases.

1. Configure the SQL Server Transaction Log, temporary database and VendMAX data file on separate physical drives than the Operating System.
2. Recommend configuring the database properties so that SQL Server Transaction Log file does not grow larger than the database file (ex: restrict file growth, options for auto shrink, Recovery model, etc)
3. Recommend RAID 5 or 10 configurations for VendMAX data file.
4. Recommend no RAID or mirroring for temporary data base on hard drive.
5. Recommend RAID 1 for SQL Server Transaction Log on hard drive
6. Nightly backup of VendMAX data file & SQL Server Transaction Log.
7. Weekly rebuild of indexes and consistency check.
8. Streamware recommends frequent (hourly if possible) backups of SQL Server Transaction Log. Discuss with your IT Professional to determine optimal frequency for your particular situation and server configuration.
9. Authentication should be set to Mixed Mode (Windows and SQL).
10. Periodic archiving/purging of data may be necessary.

Additional Considerations

- Before purchasing new hardware to these specifications, investigate carefully with your IT support professional whether you can effectively upgrade your existing system to equivalent capabilities and avoid or postpone investment in new hardware. The typical life expectancy of computer hardware is 3-5 years, but can vary because of many factors, including technological obsolescence and enhancements to operating systems and services.
- For purchase of new equipment, we suggest you obtain at least two quotations for hardware and services. Ensure your providers itemize all of the components in their proposals, including their consulting and installation services, and clearly show the associated costs for each. Have your providers explain how the equipment proposed relates to the specification, and discuss with them

possible lower-cost alternatives.

- Business growth must always be considered as a factor which can place a greater load on existing computing hardware and may require a hardware upgrade to maintain acceptable performance. Consider recent changes in your level of business and the impact of possible future growth on capacity and performance. Plan your capital investment accordingly.