



System and Server Requirements

January 2018

For

GreeneStep ERP, Ecommerce, Collaboration, Dashboards and Field Services Modules

Information in this document is subject to change without notice and is propriety of GreeneStep Technologies. No part of this document is to be re-produced or transmitted in any form, or by any means - electronic or mechanical, for any purpose, without the express written permission of GreeneStep Technologies. Visit www.greenestep.com for more details.

The recommendations are based on experience with prior installations and should only be used as a reference in determining hardware and sever needs for your specific business needs. You may need to increase the configuration to achieve expected performance depending on factors such as additional software installed on the system, network architecture and usage load based on number of users, concurrency, network traffic and bandwidth.

Contents

Summary.....	3
Installation Pre-requisites.....	4
Server Requirements & Configurations.....	5
LAN Configuration for On-Premise Installation.....	6
Client Installations on LAN.....	6
Add-on GreeneStep Modules.....	6
Retail Point of Sale Hardware Options.....	7
Third Party Software.....	7
Virtual Infrastructure.....	7

Summary

GreeneStep software can be deployed as On-Premise Model or as a Hosted Solution.

For On-Premise deployment, on the LAN Network all the servers and clients need to be connected via DOMAIN (preferable and recommended) or on Workgroup on Microsoft Windows OS licensed versions and MS SQL Express Edition / SQL Server Installation is a pre-requisite.

GreeneStep provides a Client connectivity software for On-Premise model, that is to be deployed on each user workstation. This Client must have Microsoft .Net Framework 4.0 or above installed for GreeneStep Reports to work.

For Hosted model, the connectivity to the server is to be done using a remote desktop connection via a terminal server for GreeneStep Back-office deployed on the server.

For GreeneStep Ecommerce Webstore, Field Services Management, Collaboration Portal, Management Dashboard Portal, latest editions of Google Chrome, Apple Safari, and Firefox internet browser software can be used. The same can be accessed over smartphones and Tablets such as iPhone or iPad or Android Smart Devices.



Installation Pre-requisites

GreeneStep requires .Net framework 4.0 or above and SQL 2012 R2 or SQL 2014 Express edition to function. These are pre-requisite software that need to be installed on the servers.

For installation, GreeneStep technical team will guide you for initial configuration or reviews the current setup before installing GreeneStep Server and Client Software.

GreeneStep has tested for compatibility with the following browsers below using 1024x768 screen resolutions:

- Google Chrome 63.0 or above (recommended)
- Safari 5.1 or above
- Firefox 58.0 or above

Microsoft Internet Browser or Edge is not recommended as it does not support some of the functions developed by GreeneStep.

Note 1: GreeneStep Collaboration and Web Reports can be accessed on tablets like iPad and Smart phones like iPhone or Android Phones. However, the content display and user interface is not exclusively designed for these devices and is not 100% responsive (though we are making efforts to make it 'near' responsive and confirm to various device form factors for commonly used screens except for the line item grids).

Note 2: If you have purchased license of SQL Server 2008 R2 Standard, you can continue to use the same for GreeneStep ERP.

Server Requirements & Configurations

	Standard	For High Performance	
	Businesses with below 100 transactions / day	Businesses with more than 500 transactions per day (SO, PO, SI, Journals and Stock Updates)	
Concurrent Users	Up to 25 Users	More than 25 Users	
Configuration	Deploy Business App Server, Database and Webserver on same Server	Database Server on a different Server	Business App Server and Web Server on a 2 nd Server
Operating System	Windows 2012 Standard Ed.	Windows 2012 Enterprise or Standard Edition	
Database Software	MSSQL Server 2012 Express Edition	MSSQL Server 2012 or 2014 Standard or Enterprise	
Memory	32 GB	32 to 64 GB	64GB
Processor (64 bit)	Dual Core Xeon 2.6 GHz or above	Dual Core Xeon 2.6 GHz or above	Dual Core Xeon 2.6 GHz or above
Primary Hard Drive	250 GB 7.2K RPM Serial ATA	250 GB 15K RPM Serial-Attached SCSI	250 GB 15K RPM Serial-Attached SCSI
2nd Hard Drive	500 GB 7.2K RPM Serial ATA	500 GB 15K RPM Serial-Attached SCSI	500 GB 15K RPM Serial-Attached SCSI
RAID	No	Yes	Yes
Network Adaptors	Dual Embedded Gigabit Ethernet NIC	Dual Embedded Gigabit Ethernet NIC	Dual Embedded Gigabit Ethernet NIC
Network Configuration	All servers and client machines should be part of the same DOMAIN or WORKGROUP with Admin rights enabled for Client or Server Users.		
Ports to be Opened	80, 443 (Required Only if Webstore & Collaboration modules are installed)		

Notes:

1. If more than two Remote Desktop Connections (RDC) user logins are needed, Terminal server user licenses has to be installed along with required number of CAL's in Business server. In case if there is any Terminal server is available in the network, the same can be used.
2. To ensure maximum resolution, set the color resolution to 1024 X 768. This will ensure that while connecting to the Remote Desktop Server your screen will be shown in Full Screen Mode.
3. Up to 20 RDC server logins, above mentioned 'standard' hardware configuration can be used. If it is above 20 and up to 50 users, Number of physical processors should be two. If the number of users are above 50, four physical processors are suggested.
4. Till database size of 10 GB, MSSQL 2012 Express Edition (free) can be used. And above 10GB, SQL Standard Full edition is recommended, in that case "Processor" licensing is required for SQL.

LAN Configuration for On-Premise Installation

TCP/IP LAN (Local Area Network) Connection with a Minimum of 100Mbps Uplink between Workstations and Switches is recommended.

Remote Users Connecting to the Network through Means of Terminal Server, VPN, etc. must have a Minimum of a DSL or Cable Connection with 1 or more MBPS connectivity.

Note: GreeneStep Does Not Recommend the Use of Dial-Up Connection for Connecting.

Client Installations on LAN

Processor	3 GHz or above (Preferably Dual Core)
Memory	8 GB or above
Hard Drive	Minimum 250 GB
Operating System	Genuine Windows 10 Professional Edition (Home editions are not supported).
Cards	Integrated Video Card (Minimum of 1024 x 768 or higher) •*Ports: 4 USB, 1 Serial, 1 Parallel : For additional hardware like POS terminals, or Barcode scanning

Add-on GreeneStep Modules

GreeneStep Add-on modules like Ecommerce, Collaboration, Retail POS requires a dedicated internet connection, such as a T1, or Cable (with a minimum of 2MBPS send/receive throughput or above and depends on the number of Remote Desktop Connections & Web Server Traffic).

Website performance can vary significantly depending on the amount of traffic your website receives, size and number of images and bandwidth at end user's workstation.

A SSL certificate is recommended in your website which provides a secure website for your shoppers and visitors. SSL Certificate ensures that all communication between End User and Website is encrypted and not tampered. SSL Certificate also provides proof of your website's identity to the end user. You need to purchase your own SSL certification from your local registrar.

Retail Point of Sale Hardware Options

Additional hardware required for Retail POS, QR Code, Bar Code Readers, Data Collectors and POS Report Printers that are compatible with GreeneStep, need to be discussed and validated with GreeneStep Support team before procuring and installation. Please send an email to support@greenestep.com or to info@greenestep.com

Third Party Software

GreeneStep Reports can be modified using the StimulReport.Net (2014.1). Please contact for GreeneStep Report Designer tool that will make it more convenient and easy to modify and create reports for GreeneStep ERP.

Note: System requirements for third party software may be different from GreeneStep requirements. Please refer to the hardware and software requirements published by third party software vendor before installing.

Virtual Infrastructure

ESX is an enterprise-level server virtualization product offered by VMware Inc. Which makes the Physical server more robust and provides higher level of performance, scalability and reliability. Customers need to be aware that VMware ESX is based on Linux, but the guest Operating Systems could be Windows 2012, 2008 R2 Server Editions. Customers must use high end servers and upon the same install virtual server with above configurations.

Note: Server and application performance can vary depending on the number of virtual servers installed and usage amount of each virtual machine. Please visit VMware's website at <http://www.vmware.com/products/vi/esx> for documentation and data sheets regarding the application and use.