



eTHOMAS System Requirements

Version 8.x

Prerequisites for Software Installation

It is very important to understand the difference between minimum requirements and recommended requirements. Due to rapidly evolving computer hardware equipment and software technologies, minimums have to be discussed to give a user a baseline of where to start from. A “minimum requirement” means the application will start and run, but overall performance and scalability for more than a single user is not taken into account. A “recommended requirement” takes into consideration whether the application will be running in a single user environment or a multi-user environment and would achieve enhanced performance. Using a more powerful CPU and/or more system memory (RAM) than required is never a bad idea; it’s never been said a computer application runs too fast! Required components are not optional; without required components being installed and configured properly on your computer(s), eTHOMAS would not function properly or not at all.

Approved operating systems

eTHOMAS Server

Microsoft© Windows© 2003 Server
 Microsoft© Windows© XP Professional

eTHOMAS client

Microsoft© Windows© 2003 Server
 Microsoft© Windows© XP Professional
 Microsoft© Windows© XP Home

Remote Terminal Server Access

Microsoft© Windows© 2003 Server, Standard Edition
 Microsoft© Windows© 2003 Server, Enterprise Edition

NOTE: eTHOMAS v8 requires a minimum display resolution of 800x600 pixels with 16bit (65,536) color depth. Windows 2000 Terminal Server can not display this resolution and is therefore not supported for remote terminal server access with eTHOMAS v8.

Required operating system components

eTHOMAS Server and eTHOMAS Client:

Service Pack 4 (Windows 2000 systems).....	Required before install
Service Pack 2 (Windows XP systems).....	Required before install
Service Pack 1 (Windows 2003 systems).....	Required before install
Internet Explorer 6.0 or Higher.....	Required before install
Display resolution: 800x600, 16bit color or Higher.....	Required before install

Hardware Requirements

All components should be compatible with Microsoft© Windows© 2000/XP/2003. Visit <http://www.microsoft.com/hwdq/hcl/search.asp> for a detailed list.

Intel® Celeron® and AMD Duron™ processors are not recommended for use with the eTHOMAS software due to poor system performance. Genius Solutions recommends using Intel® Pentium® 4 (or faster) or AMD Athlon™ (or faster) processors for the best performance.

All computers must be capable of displaying a minimum desktop resolution and color depth of 800x600, 16bit color or higher.

2 – 5 User System (None Dedicated)

Recommended	
Server	<ul style="list-style-type: none">- Windows XP Professional, SP2- Intel® Pentium® 4, 3GHz or higher- 1GB RAM or higher- 40 GB 7200RPM Hard Drive- 100/1000MBs Capable Network Card- (1) USB Port, (1) Serial Port
Workstation	<ul style="list-style-type: none">- Windows XP Professional, SP2- Intel® Pentium® 4, 3GHz or higher- 512MB RAM or higher- 20 GB 7200RPM Hard Drive- 100/1000MBs Capable Network Card- (1) USB Port, (1) Serial Port

NOTE: None-dedicated or “Peer-to-Peer” networks should be limited to a maximum of 5 computers. For multi-user systems it is recommended to have a dedicated server. See below.

2 – 20 User System (Dedicated Server)

Recommended	
Server	<ul style="list-style-type: none">- Windows 2003 Server, Std. Edition, SP1- Intel® Pentium® 4, 3GHz or higher- 2GB RAM or higher- 36 GB U160 SCSI 10KRPM Hard Drive- 100/1000MBs Capable Network Card- (1) USB Port, (1) Serial Port
Workstation	<ul style="list-style-type: none">- Windows XP Professional, SP2- Intel® Pentium® 4, 3GHz or higher- 512MB RAM or higher- 20 GB 7200RPM Hard Drive- 100/1000MBs Capable Network Card- (1) USB Port, (1) Serial Port

Remote Terminal Server System

	Recommended
Remote	<ul style="list-style-type: none"> - Windows 2003 Server, Std. Edition, SP1 - Intel® Pentium® 4, 3.4GHz or higher - 2GB RAM or higher - 40 GB 7200RPM Hard Drive - 100MBs Capable Network Card - (1) USB Port

NOTE: The above configuration considers 5 remote users running eTHOMAS only. Additional system memory (RAM) should be added to accommodate more remote users. You should add a minimum of 256MB of RAM and 1GB of hard drive space for each additional remote user. For systems that will host more than 10 users, a multiple CPU system is recommended. Performance is dependent upon the total user environment. Running additional applications other than eTHOMAS will require additional RAM and hard drive space. In general, having a lot of RAM and hard drive space, or rather “more than you need”, is always better.

A minimum display resolution of 800x600 pixels with 16bit (65,536) color depth. Windows 2000 Terminal Server can not display this resolution and is therefore not supported for remote terminal server access with eTHOMAS v8.

Single User System

	Recommended
Server	<ul style="list-style-type: none"> - Windows XP Professional, SP2 - Intel® Pentium® 4, 3GHz or higher - 1GB RAM or higher - 40 GB 7200RPM Hard Drive - 100/1000MBs Capable Network Card - (1) USB Port, (1) Serial Port

1.4.4 Recommended Peripherals

Some additional equipment and software will be needed to fully utilize the eTHOMAS system.

Printer	Hewlett Packard© LaserJet 3000 Series printer Hewlett Packard© LaserJet 4000 Series printer
Scanner	Epson© Perfection series flatbed scanners Canon© CanoScan© series flatbed scanners
Modem	US Robotics© 56K External Fax/Modem (*Computer Serial Port and data cable required)
Productivity	Microsoft Word, Microsoft Excel

1.4.4.1 In order to print claim files, receipts, statements and reports

- You will need a **Windows Compatible Printer**
- Genius Solutions recommends: **Hewlett Packard© 3000 series laser printers**
Hewlett Packard© 4000 series laser printers

Any printer that is capable of printing from Windows should work with eTHOMAS. With that being said, not all printers are created equal in economy, quality, functionality and usability.

Genius Solutions recommends the use of a laser printer that has a paper feed tray. A paper feed tray is a drawer on the printer that is opened, a stack of paper is inserted and the drawer is closed to allow the printer to pull paper from the tray. A printer with this type of paper feed mechanism will give you the best possible alignment capabilities of any type of printer. It also has the added benefit of minimizing paper jams. Additionally, most laser printers are very fast and cost effective printing devices. Genius Solutions recommends the Hewlett Packard© 2000 or 4000 series laser printers as the outstanding choice for use with the eTHOMAS software.

Genius Solutions does not recommend the use of impact / dot-matrix printers with the eTHOMAS software. Although your impact / dot-matrix printer may be capable of printing from Windows and eTHOMAS, the output would be extremely slow.

Genius Solutions does not recommend the use of “InkJet” or “Bubble Jet” printers. These types of printers are generally designed to output pictures or photographs and are not intended as a primary office printer. They do not do a good job of consistently aligning text on a page or aligning the paper itself. If you are using pre-printed forms (such as patient receipts, route slips, claim forms or statements) you must expect poor alignment abilities from this type of printer.

1.4.4.2 In order to transmit electronic claims files to your payer(s)

- You will need a **Standard Telephone Modem***
- Genius Solutions recommends: **US Robotics© 56K External Fax/Modem**

*** Equipment requirements for electronic claims submission vary by receiver. Most receivers still require providers to transmit claims using a telephone modem and a standard telephone line, but some can accommodate claims to be received over an Internet connection. Please contact your claims receiver directly for system requirements.**

Genius Solutions recommends the use of an external telephone modem (a device which attaches to your computer's **Serial Port** via a **Serial Extension Cable**) in order to offer the best possible performance, reliability and supportability when transmitting claims. It should also be noted that in cases where a **Standard Telephone Line** is required, you would not be able to use Voice Over IP (VoIP) technology phone/system lines. An example of one such VoIP service is Vonage®.

1.4.4.3 If you plan on scanning images into the eTHOMAS system

- You will need a **TWAIN Compliant Scanner**
- Genius Solutions recommends: **Epson© Perfection series flatbed scanners**
Canon© CanoScan series flatbed scanners

A good scanner is important in order to be efficient when scanning images into the eTHOMAS system. A few factors should influence you when deciding on which scanner to use in your office. (1) Noise Generation: Most offices will be scanning images at the reception area. Most flatbed scanners are noisy devices, so choose one that is quiet. (2) Speed: Nobody likes to wait, a speedy model will save you time. (3) Ease of use: Nothing is more frustrating than fumbling with complicated equipment to accomplish a simple task, choose a scanner that comes with simple 1-step scanning software.

There are many different models to choose from on the market today, but Genius Solutions has done the hard work for you to make the decision easy. The Epson Perfection series may not be the least expensive, but it will meet all of the above suggestions. The Canon CanoScan series definitely delivers excellent speed and ease of use at a very affordable price, but is not as quiet as the Epson Perfection series.

1.4.4.3.1 Scanning images from a remote computer

Under construction

1.4.4.4 If you plan to merge data from THOMAS into an external document

Under construction