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This guide is not intended to replace the knowledge and expertise of a qualified IT professional, but to assist them in acquiring and configuring the necessary hardware for a successful implementation.

Definitions:

TraxView Database Server: The server where the TraxView data resides, running on Red Hat Enterprise Linux operating system.

Terminal Server (Remote Desktop Server\Application Server): Windows server that runs TraxView application for multiple users.

TraxView Classic: Module within TraxView that runs cell-based TraxView session

Workstation: Any device that runs TraxView or connects to a Terminal Server

Local Workstation: Any workstation in the same building as the TraxView Database Server.

Remote Workstation: Any workstation not in the same building as the TraxView Database Server.

Wireless Workstation: Any workstation that connects to a network using wireless.

Host Server: A physical server utilizing another software to manage multiple virtual servers.

Virtual Server: A server that resides on a host server. A virtual server is not a physical server. A virtual server can have Windows or Linux operating system installed.

Server Requirements:

AgTrax has developed the following general system requirements for your server(s). Please be sure to adhere to the supported operating systems and specifications. Deviation from approved server requirements may result in system instability.

The below recommendations are for the TraxView software only. If you decide to run additional services (i.e. DNS, Active Directory, or Microsoft Office on your server) you will need to add additional CPUs and/or RAM, an additional server may be required.

TraxView Database Server

Processor	Intel® Xeon® Quad Core 2.4GHz or higher
Hard Drive	300GB Minimum RAID-5 *SSD Drives recommended for optimal performance *Write-Caching enabled with battery installed
Network Card:	1 Gigabit
Optical Drive (CD/DVD) (optional)	DVD-ROM\Virtual CD/DVD

Operating System: Red Hat Enterprise Linux Server release 6.10 (Purchased from AgTrax)

***Note:** For TraxView server support AgTrax must install the operating system

Users	Up to 25	25-60	60-100
Processors (cores)	2	4	4
RAM	4GB	8GB	16GB

*For larger (100+ users) installations, please consult with AgTrax Technical Support

TraxView Terminal Server

Processor:	Intel® Xeon® Quad Core 2.4 GHz or higher
System Drive:	150 GB, RAID 1 Recommended
Network Card:	1 Gigabit
Optical Drive (CD/DVD) (optional)	DVD-ROM\Virtual CD/DVD
Operating System:	Windows Server 2016, Server 2019, or Server 2022

Recommended resources for number of users on terminal server

Users	Up to 25	25-50	50-75
Processors (cores)	4	6-8	8
RAM	12GB	16GB	20-24GB

*For installations larger than 75 users, use multiple Terminal Servers.

Online Access Server\API Server

If you are using the Online Access product or a TraxView API, you must also have a separate server to run the web services. This must be a separate server and cannot have data on it as the server must be configured to reside in the network's DMZ or have an encrypted tunnel to the internet to facilitate web traffic.

Processor	Intel® Xeon® Dual Core 2.0 GHz or higher
RAM	8 GB
System Drive	100 GB
Optical Drive (CD/DVD) (optional)	DVD-ROM\Virtual CD/DVD
Operating System	Windows Server Windows Server 2016, 2019, 2022

*IIS to be installed or verified by AgTrax Technical Support

Local Workstation Requirements

AgTrax has developed the following requirements for your workstation(s).

TraxView Workstation

A TraxView workstation is one that does not typically use a terminal services client to run TraxView. Recommended hardware specifications will typically be higher than that of a thin client workstation.

Processor:	Intel® Core™ i3 8000 series or higher (released in 2018) AMD Ryzen 3 3000 series or higher (released in 2018) ARM processors are NOT supported.
Memory:	8 GB; 16GB Recommended for Windows 11
Network Card:	1 Gigabit
Monitor:	LCD 1024x768 – 1200x800 20" or larger recommended
Operating System:	Windows 10 or 11; Professional Version

***Windows XP, Windows 7, and Windows 8 are NOT supported by Microsoft or AgTrax**

*Requirements will be the same for Scale Interface workstations.

Remote Workstations / Laptops / Tablets

Since remote workstations, laptops, and tablets do not support TraxView, any operating system capable of running the appropriate remote desktop software is acceptable. Some devices come with a limited amount of on-device storage. Remote devices, laptops, and tablets that will be accessing TraxView must do so through a terminal server. For optimal performance TraxView hardware specifications are recommended.

***Windows XP and Windows 7 are NOT supported by Microsoft or AgTrax**

REQUIRED

- Remote Desktop Server for all remote and wireless users accessing TraxView ○ Remote Desktop Server not required for remote TraxView Classic installations
- Backups are a system requirement.
 - AgTrax Online Backup or backup to local NAS is required
- Antivirus ○ TraxView folders excluded from real-time/on-access scanning.

C:\Program Files (x86)\AgTrax Technologies\

C:\Users\username\AppData\Local\AgTrax Technologies

○ Scheduled scans when users are not in the system. ○ Norton 360 and AVG Firewalls are unapproved anti-virus solutions that may cause application instability with TraxView. ○ Some anti-virus solutions will interfere with TraxView executables. Also, be aware that updates to anti-virus software may cause issues with TraxView.

- All servers attached to a battery backup. (Uninterruptable Power Supply)

- Power settings on workstations must be disabled
 - Sleep, Hibernate, and Hybrid Sleep should be disabled
 - Hard Disk should be set to Never turn off
 - All Wireless adapters and Network Interface Card Power Management should be turned off
 - The following Microsoft security features and software ***MUST BE DISABLED:***
 - User Account Control (UAC)
 - Windows Firewall
 - Internet Bandwidth for TraxView
 - Remote locations require a minimum of 3Mbps download and 3Mbps upload *plus* 200Kbps per TraxView user
 - Main location requires a minimum of 3Mbps download and 3Mbps upload *plus* 200Kbps per TraxView remote user (all remote users)
 - All TraxView SAAS locations are considered remotes, so a minimum of 3Mbps download and 3Mbps upload *plus* 200Kbps per TraxView user is required
- *Internet performance is affected by usage as well as bandwidth. Any activity that uses Internet access can adversely affect overall Internet bandwidth and therefore impact TraxView performance.

RECOMMENDED

- Remote Sites connected through VPN
 - If not connected to VPN any traffic transferred is unsecured.
- Hardware from experienced and trusted vendors (HP, Dell, IBM) is highly recommended.
 - Hardware/Network support from a local reputable professional or organization.
 - If you do not have a hardware/network person please contact AgTrax for recommendations.
- Windows set to automatically download updates. Manual application of Windows updates on virtual host servers is recommended as orderly shutdown on the AgTrax Database server is required.
- 20" or larger monitor recommended
- 1GB or faster network switch is highly recommended
- Customers should have a hardware-level firewall protecting their network. Hardware firewall should support packet inspection and IP white listing. Software-level firewalls are not supported by AgTrax.
 - All Windows firewalls and Internet Security should allow TraxView Client access
 - Some full feature Internet Security software does not allow security features to be disabled, causing irresolvable issues with TraxView
- Customers should have a local Hardware\Network technician
 - AgTrax will make an effort to assist customers with hardware issues but support of hardware not purchased from AgTrax and networking\communications fall outside of the AgTrax maintenance agreement.
- Have a disaster recovery plan
 - AgTrax Online Backup is the only supported offsite backup solution.
 - AgTrax Online Backup is highly recommended as an offsite backup solution.
- All computers and peripherals plugged into Surge Suppressors.

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