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## Required Licenses

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Use the **F1** button on any page of a ThinManager wizard to launch Help for that page.

Visit [www.thinmanager.com/TechNotes4/01\\_Intro/Manuals.shtml](http://www.thinmanager.com/TechNotes4/01_Intro/Manuals.shtml) to download the manual, manual chapters, or the abridged ThinManual.

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ThinManager Ready thin clients need three types of licenses to run. They are the Microsoft, ACP ThinManager, and the application licenses.

### Windows Licensing

ACP Enabled thin clients require **Microsoft's Windows 2000 Server, Windows 2003 Server, or Windows 2008 Server** with Terminal Services enabled to connect to and run a session on. Each of these operating systems requires a standard Microsoft Client Access License (CAL) for each connection to the server. These are based on concurrent use; a 5-pack would allow ten users to access server resources, but only five users at a time.

**Terminals require an additional Microsoft Terminal Server Client Access License (TS CAL)** to connect to terminal servers. This is required regardless if you are using a fat client or a thin client, using RDP or ICA. This licensing is per seat; ten terminals would require ten TS CALs, even if only two were connected at a time.

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**Note:** The TS CAL is called the RDS CAL (Remote Desktop Services CAL) on Windows 2008 Servers

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All TS CALs are installed on a Terminal Services Licensing server. This is one machine on the network to act as a repository for all TS CALs. The terminal servers request TS CAL authentication from the Terminal Services Licensing server as terminals attach to terminal servers.

The Terminal Services Licensing server is activated through the Internet by connecting to the Microsoft Certificate Authority and License Clearinghouse. Windows 2000 Server with Terminal Services enabled will issue 90-day temporary licenses while the Terminal Services Licensing server is being setup and activated. If this period has elapsed, the terminal will not connect to the terminal server and will display an "**Error Number 50**" message box. Windows 2003 and 2008 will issue a 120-day temporary license.

Windows 2000/2003/2008 Servers are not normally sold with TS CALs. These need to be purchased separately from your Microsoft vendor and installed on the Terminal Services License server.

### Application Licenses

Each application that a user is running will need the appropriate license from the vendor. If two instances of an application are running on a terminal, that terminal will probably need two licenses. Please see your application vendor's documentation for their license policy.



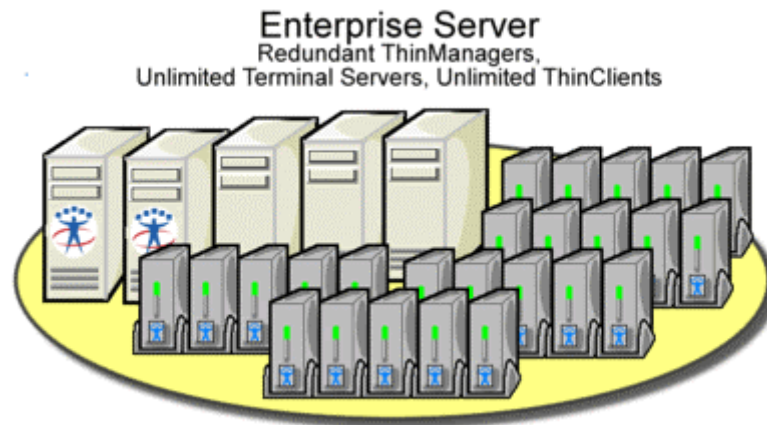
## ThinManager License Types

ThinManager has two licensing modes, **Standard** and **Enterprise**. Several functions and modules require additional licenses.

### Enterprise Licenses

**Enterprise Licenses** provide unlimited connections and are available as **Server** or **Site** versions.

- **Enterprise Server** - This version provides a license with unlimited connections that can be activated on a primary and a secondary ThinManager Server so that one will always be available for the ThinManager Ready thin clients.
- **Enterprise Site** - This license allows unlimited installations of ThinManager Servers on any site, campus, or property. This is ideal when different departments control their own thin clients.
- **WinTMC and TermSecure** - These features are add-on licenses to Enterprise licensing.



*Enterprise Server License*

**Enterprise Server** includes two license numbers that are installed on two computers to provide redundant ThinManager Servers and unlimited terminal servers and unlimited ThinManager Ready thin clients.

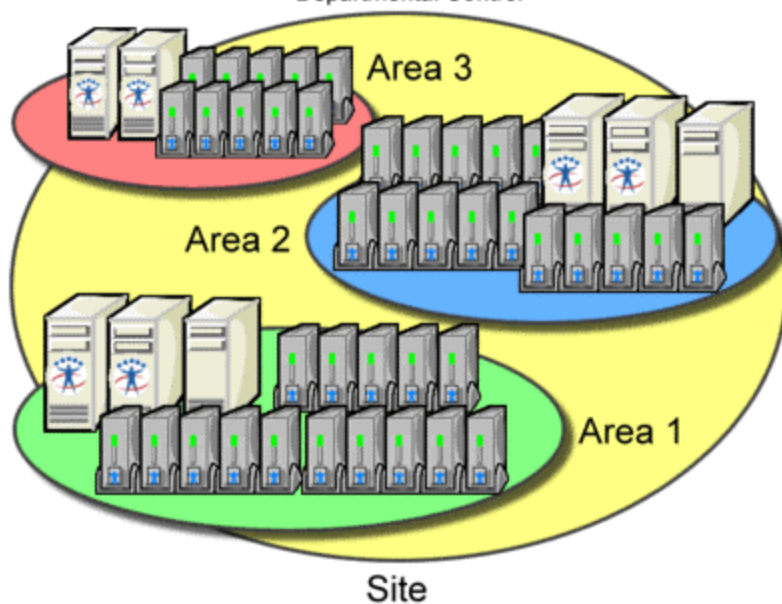
The Enterprise Server in ThinManager 4 includes unlimited:

- Terminal Connection Licenses
- MultiSession Licenses
- SmartSession Licenses
- Instant Failover Licenses
- Redundant Ethernet Licenses
- Share Keyboard and Mouse Licenses



## Enterprise Site

One Site, Unlimited ThinManagers,  
Unlimited Terminal Servers, Unlimited ThinClients  
Departmental Control



*Enterprise Site License*

**Enterprise Site** has a single license number that can be installed on an unlimited number of computers at a single company location to provide redundancy and departmental control. ThinManager Servers using this license will display the licensed company's name and site in the title bar of ThinManager.

The Enterprise Site in ThinManager 4 includes unlimited:

- Terminal Connection Licenses
- MultiSession Licenses
- SmartSession Licenses
- Instant Failover Licenses
- Redundant Ethernet Licenses
- Share Keyboard and Mouse Licenses

## Standard Licenses

**Standard ThinManager licenses** are sold per-connection and are available in 5, 10, and 25-user units. These licenses allow any 5, 10 or 25 ThinManager Ready thin clients to boot and connect to terminal servers and terminal server groups. The licenses are pooled and are released once the terminal is turned off.

Standard Licenses are available as 5, 10, and 25 packs for

**Terminal Connections** - allows a ThinManager Ready thin client to boot and receive its configuration. The Terminal Connection License in ThinManager 4 includes:

- **MultiSession** - This allows a thin client to run several sessions on different servers at once
- **SmartSession** - This is ThinManager's tool for load balancing terminal servers

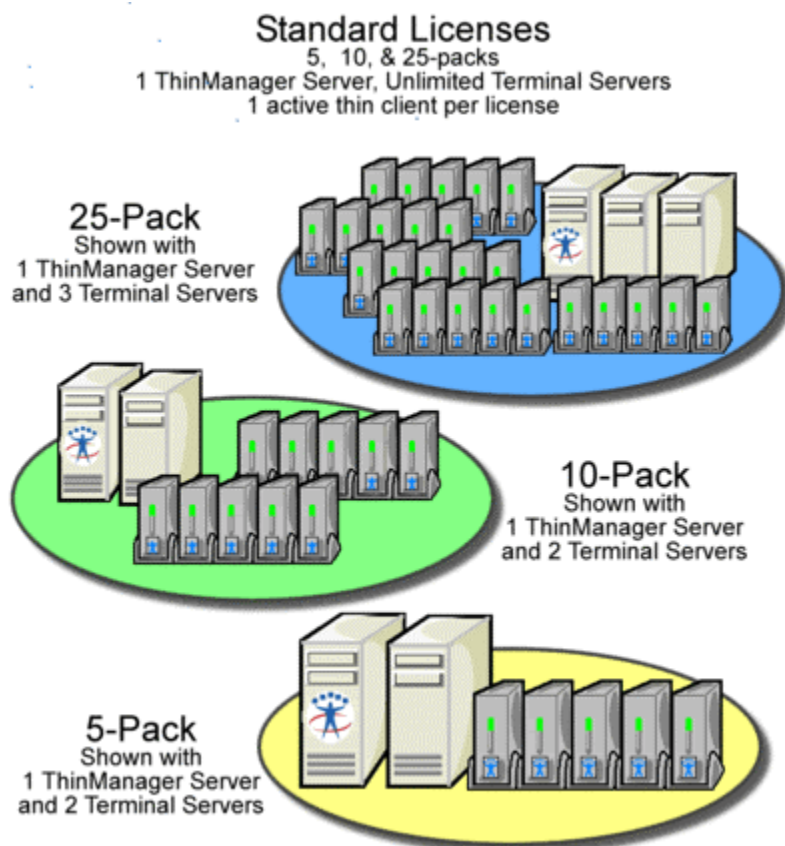


- **Instant Failover** - Allows the thin client to connect to two servers at once to provide instant switching if a terminal server fails
- **Redundant Ethernet** – Allows the ThinManager Ready thin client to take advantage of the redundant network port included on some hardware.
- **Share Keyboard and Mouse** - This allows up to 5 thin clients to be controlled by one keyboard and mouse

**TermSecure** – Each installation of ThinManager comes with a 5-user license of TermSecure. Additional TermSecure licenses can be purchased in 5-user, 10-user, and 25-user packs.

**MultiMonitor** - This allows some hardware to use up to 5 monitors from a single thin client Licenses are available in 1-client, 2-client, 3-client and 4-client packs in addition to the 5 packs and 10 packs.

**WinTMC** – WinTMC allows a PC to be configured to be used as a ThinManager controlled thin client. Each WinTMC client will need a Terminal Connection license and a WinTMC license.



*Standard ThinManager Licenses*

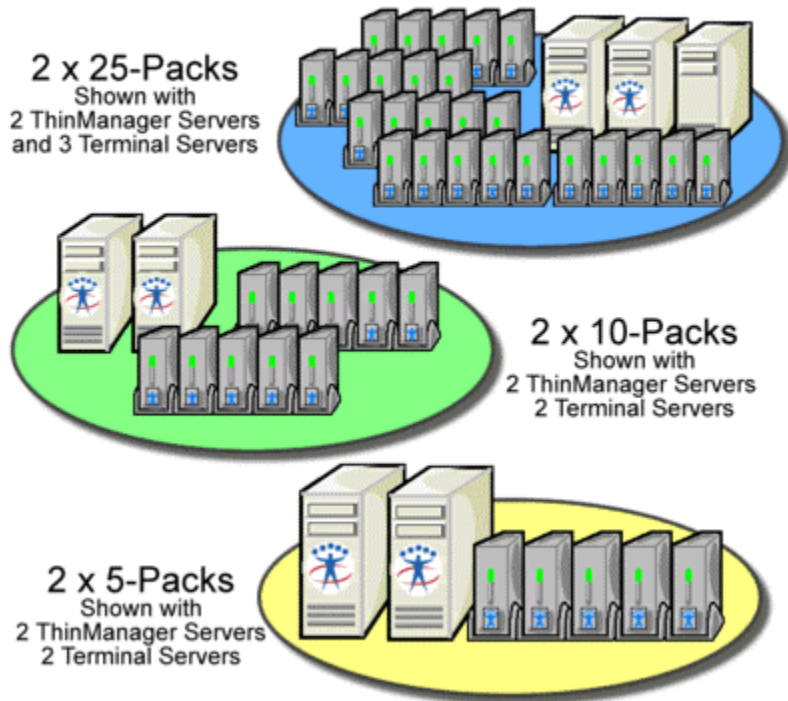


## Redundant Licenses

**Redundancy** requires a set of ThinManager licenses on a second ThinManager Server to allow the ThinManager Ready thin clients to boot if one ThinManager Server fails. Mirrored Licenses also provide redundancy. See Redundancy and Mirrored Licenses at the Tech Notes 4 site for details.

### Standard Licenses with Redundancy

2 Sets of 5, 10, & 25-packs  
2 ThinManager Servers, Unlimited Terminal Servers  
1 active thin client per license pair



*Redundant ThinManager Servers*