# THINMANAGER
### A Rockwell Automation Technology

manufacturing imagination.

# Simplified delivery of centralized applications and information to virtually any device.

## THINMANAGER DELIVERS

ThinManager allows you to easily manage the configuration of end-user terminals and the delivery of all your centralized applications and content to those terminals.
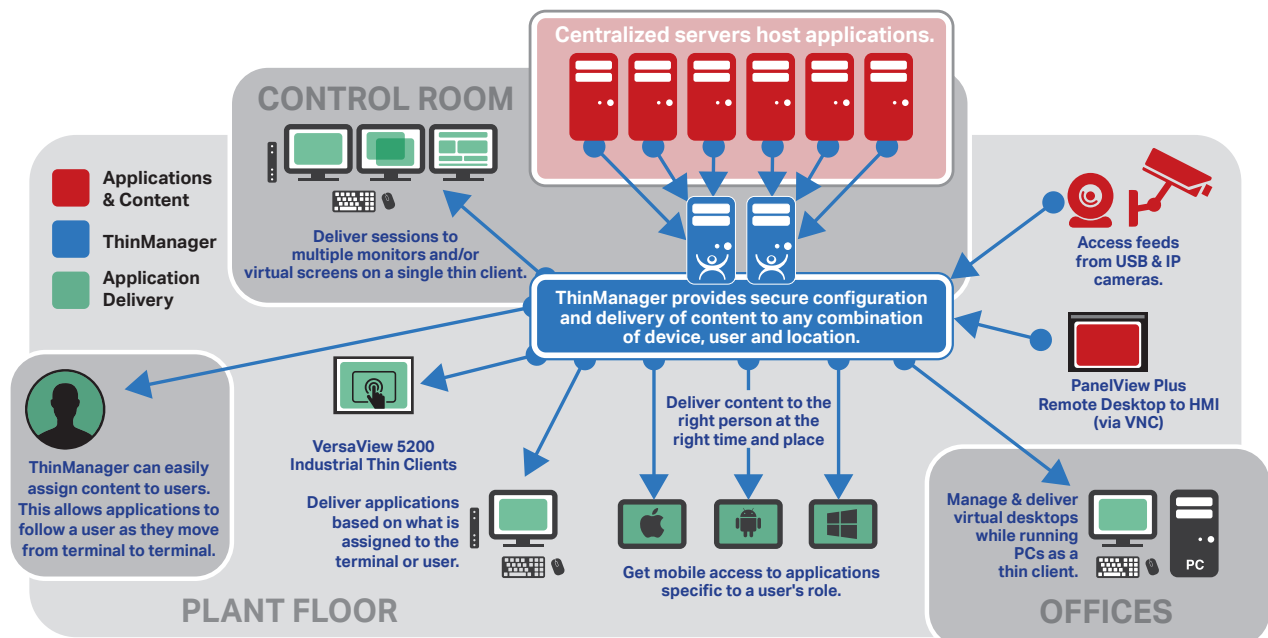
## EASE OF USE

ThinManager's wizard-based configuration allows administrators to easily set up advanced functionality for end-user devices such as PCs, thin clients and mobile devices. ThinManager also makes it easy to customize the content delivered to the terminal based on who is logged in and what role they play in your work environment.

## A COMPLETE SOLUTION

ThinManager is the only platform that manages both the server side and the terminal side of modern computer networks offering full server failover and redundancy options to keep your resources in an "always on" state, reducing downtime and lowering your Total Cost of Ownership.

**Unparalleled flexibility for your computer networks by centrally managing every thin client, PC and mobile tablet from one powerful software platform.**

## Securely deliver CONTENT to DEVICES, USERS and LOCATIONS.



Centralized servers host applications.

CONTROL ROOM

Deliver sessions to multiple monitors and/or virtual screens on a single thin client.

**Applications & Content**

**ThinManager**

**Application Delivery**

ThinManager provides secure configuration and delivery of content to any combination of device, user and location.

Access feeds from USB & IP cameras.

PanelView Plus Remote Desktop to HMI (via VNC)

ThinManager can easily assign content to users. This allows applications to follow a user as they move from terminal to terminal.

VersaView 5200 Industrial Thin Clients

Deliver applications based on what is assigned to the terminal or user.

Deliver content to the right person at the right time and place

Get mobile access to applications specific to a user's role.

Manage & deliver virtual desktops while running PCs as a thin client.

PC

PLANT FLOOR

OFFICES

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# Rockwell Automation

# VERSION 10.0
## WHAT'S NEW

ThinManager 10.0 has added many new features that will increase productivity, visualization, security & mobility

## Productivity

### Authentication Pass Through
ThinManager can now pass Relevance User credentials natively to supported HMI products using a token-based technology. FactoryTalk View SE will be the first HMI to support this. Capability will be made available to other HMI vendors in subsequent releases.

### Tiling, Virtual Screen and Camera for WinTMC
WinTMC now supports Tiling, Virtual Screens and Cameras. This is the first of our mobile clients to support these features. Other mobile clients will follow suit in subsequent releases.

### VNC Support for PanelView 5000

## Visualization

### Separate ActiveX Events
Previously, an ActiveX event gets raised and the EventCode would determine which event occurred. Now the events will be raised separately, reducing the need for scripting.

### Support for Wearables
ThinManager 10 includes a new client for the Hololens that supports 2D content as well as QR Code scanning and Bluetooth beacons.

## Security

### PIN Authentication
Users can now set up and use a PIN instead of a password.

### Password Caching
Administrators can now configure a time period for password caching. For example, users can enter a password at start of shift, but then only use a badge for the remainder of their shift.
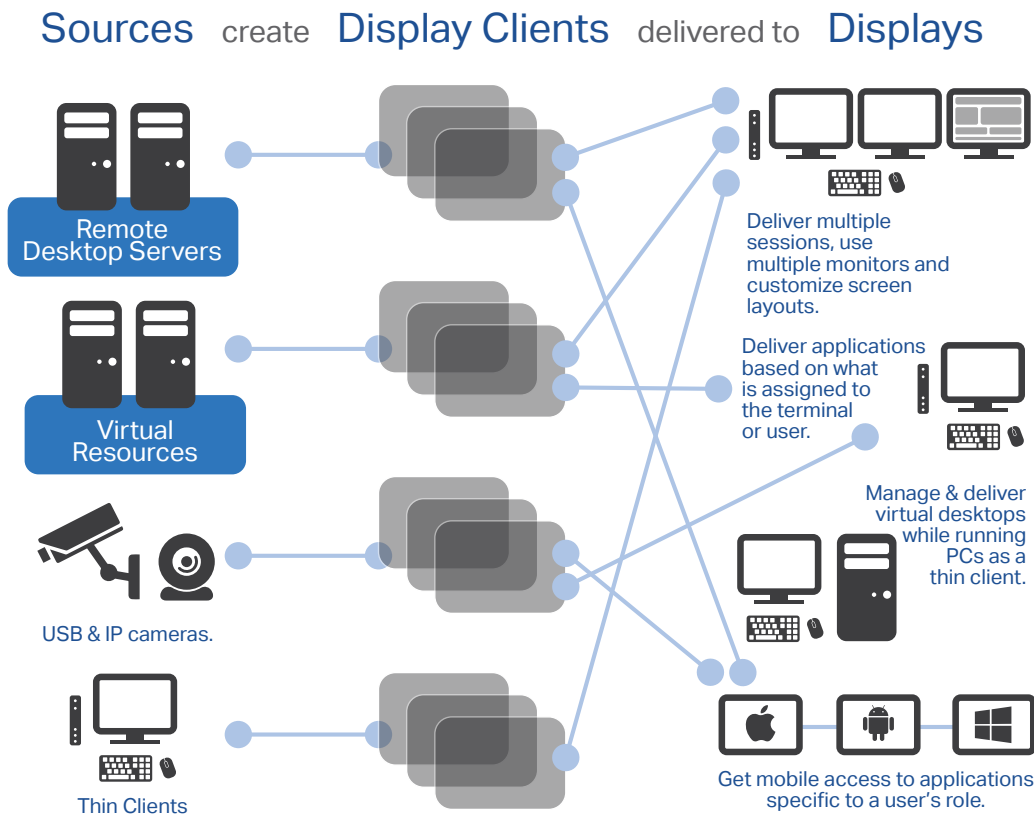
## Mobility

### Mobile Device as a Beacon
With ThinManager 10, Bluetooth enabled devices can be used as a beacon for authentication.

### Additional Location Resolvers
Version 10 will leverage Cisco's HyperLocation and Beacon Point technologies that will improve indoor location resolving.

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# MULTISESSION CORE

Deliver multiple applications from various sources to create a unique work experience for every user.

## Sources create Display Clients delivered to Displays

Remote Desktop Servers

Virtual Resources

USB & IP cameras.

Thin Clients

Deliver multiple sessions, use multiple monitors and customize screen layouts.

Deliver applications based on what is assigned to the terminal or user.

Manage & deliver virtual desktops while running PCs as a thin client.

Get mobile access to applications specific to a user's role.

## MultiSession is the core technology that allows ThinManager to securely deliver user applications and content from multiple sources.

ThinManager's MultiSession technology allows administrators to deliver applications and resources from various sources such as Remote Desktop Servers (terminal servers), IP and USB cameras, other terminals, VMWare, Hyper-V and even Citrix servers to virtually any end-user device. ThinManager creates unique sessions for each authorized user to access centralized applications.

ThinManager easily manages these sessions allowing end users to have access to multiple applications through a single terminal. Users no longer have to worry with applications that compete for resources on a single PC or working on more than one PC at a time to compensate for power hungry programs. ThinManager can deliver everything you need through a single thin client terminal.

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# MULTIMONITOR

Customize every screen to display your content in any layout you wish.

Increase visualization and expand your view by displaying individual applications on their own monitor or span large applications across several monitors through a single terminal.



2 monitors spanning a single application

3 monitors showing individual sessions
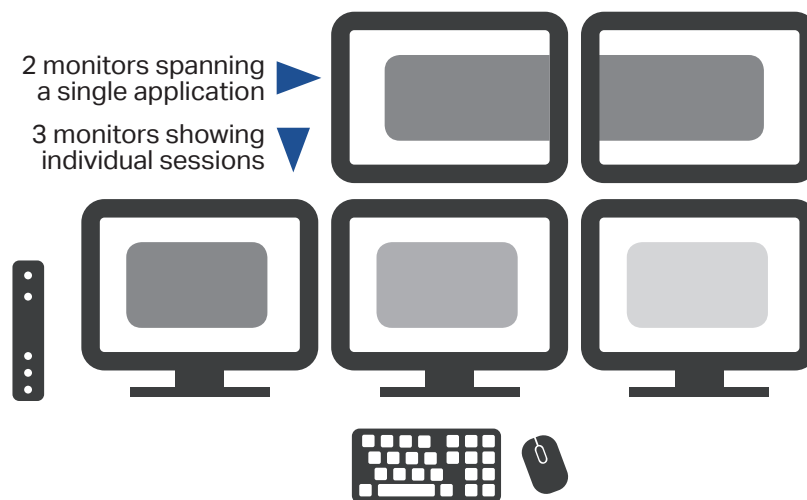
ThinManager provides several features for delivering content in a customizable format.

## MULTIMONITOR

MultiMonitor allows to display up to five monitors on a single thin client*. MultiMonitor can be used to span sessions across monitors and/or run individual or multiple sessions on each monitor. Touchscreens are also supported.

MultiMonitor supports spanned resolutions up to 8192 x 8192 with 64K colors for MS Server 2012 and newer. MS Server 2008 and prior are limited to a spanned resolution of 4096 x 2048.

* Appropriate hardware required.

# VIRTUAL SCREENS

Create composite applications with customized layouts on a single hi-resolution monitor

## Design custom screen layouts to deliver applications and content from multiple sources.
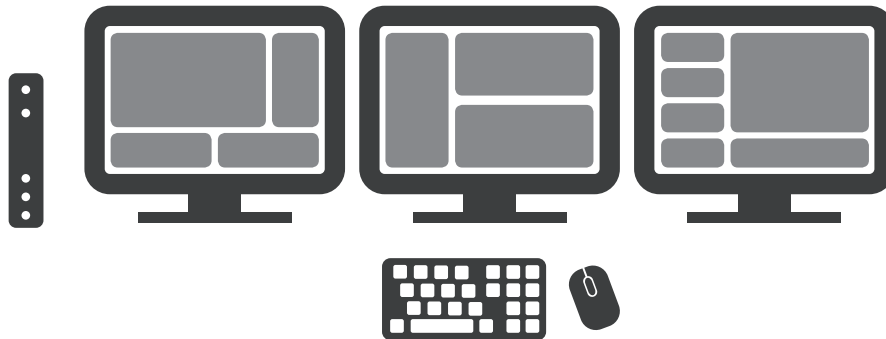
### VIRTUAL SCREENS

Virtual Screens allows multiple sources of content to be arranged on the screen in almost any way imaginable. Administrators can create custom-sized screen overlays to design "composite applications" from available user content on any terminal.

Virtual Screens are set up in a very similar manner to camera overlays. As with most ThinManager features, Virtual Screens are easily created using the wizard-based configuration tool. Simply enter screen coordinates and overlay sizes, then assign applications and content into the spaces you choose.

### SESSION SCALING

Session Scaling allows for applications to be auto-scaled to fit a particular layout or monitor resolution. Applications no longer have to be re-written to accommodate varying resolutions. Session Scaling is the perfect compliment to Virtual Screens as it will automatically fit your content into the overlays created.

### 4K RESOLUTION

Because Virtual Screens encourages adding even more content to the operator experience, ThinManager supports 4K resolution to enhance the clarity of additional content and applications. This also allows for a single 4K monitor to act as four physical monitors operating at 1920 x 1280 without the additional costs of mounting and wiring four physical monitors.

* Appropriate hardware required.

# SHADOWING & VNC

Viewing information from other devices is a snap with ThinManager.

ThinManager offers a variety of ways to customize the user experience at any particular terminal.

**Shadowing** allows an administrator or a user to view and/or operate a terminal remotely.

**VNC** sources can be shadowed and deployed to any terminal including mobile devices.

### ADMINISTRATIVE SHADOWING

ThinManager administrators have the ability to shadow every terminal directly from the ThinManager interface. Simply click the show tab after selecting the terminal you wish to shadow. You can even shadow individual monitors connected to the terminal you are shadowing.

### TERMINAL TO TERMINAL SHADOWING

There are many times that a user needs to see what is being displayed on another terminal. ThinManager's Terminal to Terminal Shadow feature let users easily view content from other sessions running on other terminals. This feature alone makes troubleshooting much less time-consuming.

### VNC VIEWING

VNC display clients also allows users, based on permissions, to access content directly from other devices like PanelView, PanelView Plus and PanelView 5000 as well as any other device that has a VNC server built in. Combined with Relevance, these features work on mobile tablets as well.

# CAMERA SUPPORT

Increased visualization creates a more productive workforce and a safer working environment.

## Enjoy fast and smooth HD H.264 video at 30fps using IP or USB-based cameras.

### Easy setup with multiple viewing options.
### Take advantage of IP or USB cameras to expand your view.

**SETUP IS EASY**

Just configure the camera with an IP address to add it to your network, define it as a display server, and then deploy it as a window or as part of a group of windows.

**MULTIPLE VIEWING OPTIONS**

Users have the option to choose a single camera display, several cameras with multiple displays, or as an overlay in an existing application. Users can define their own custom layout of the camera overlays or choose from predefined layouts. ThinManager also allows the ability to choose whether or not the IP camera feeds are to be tiled.

**MANAGE THE BANDWIDTH**

If your thin client is equipped with dual Ethernet ports, it is now possible to directly connect an IP Camera into the 2nd Ethernet port on the thin client. This greatly decreases network activity, instantly freeing up more bandwidth.

**ADVANTAGES**

IP camera support gives users the ability to see around the corner and through the walls. Use it to expand the line of vision in a production process or as a security tool to monitor every part of a facility at the same time. ThinManager's customizable IP camera support makes it easy to define and deploy a wide variety of readily available cameras.

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# WinTMC

A complete solution for organizations that use PCs as part of their Remote Desktop Services network.

WinTMC will allow you to manage your PCs and host applications on Remote Desktop Servers, simplifying network-wide updates and significantly reducing your TCO.

**WinTMC BRINGS THINMANAGER READY CLIENT FUNCTIONALITY TO YOUR WINDOWS PC**  You can use versatile ThinManager functions such as SmartSession, MultiSession, AppLink, Instant Failover, and other features on your Windows PC. You will now have more options when managing, configuring, and designing your entire Terminal Server Network.

**REMOTELY MANAGE YOUR PCS**  By centrally configuring WinTMC, you can also directly manage all of your networked PCs directly from ThinManager. Network Administrators can use ThinManager's shadowing capability to remotely view and control the PC's desktop even when the user does not have an active terminal server session.

**RUN APPLICATIONS ON YOUR PC OR TERMINAL SERVERS**  Some users may have the need to run local applications. With WinTMC they can easily switch between applications running locally and WinTMC terminal server sessions.

**WinTMC & TABLETS**  ThinManager's Windows® client application, can be used with tablets running full Windows10 or higher to create a thin mobile experience on a Surface Pro tablet or other Windows10 enabled device.

**WinTMC PROVIDES THE FLEXIBILITY TO UPGRADE OVER TIME**  WinTMC can be configured to act just like a ThinManager Ready thin client. This is ideal for gradually moving from PCs to dedicated ThinManager Ready thin clients, providing flexibility in your IT budget to invest in new thin client hardware as needed.

**NEW!**  **SUPPORT FOR VIRTUAL SCREENS**
WinTMC now supports Virtual Screens so composite applications can be delivered to PCs and Windows tablets running Windows 10 or higher.

# RELEVANCE
## FOR MOBILITY

Industrial location-based mobility solution.

## Deliver your applications to mobile devices* as easy as you deliver them to PCs and thin clients.



Relevance provides the ability to deliver the right content to the right person at the right place with location-based mobility.

Relevance extends your ability to manage every device by bringing a powerful mobile administration toolset to the award-winning ThinManager thin client management platform. Applications and information can now be delivered based on location. This will allow your staff the option to have information automatically become available on mobile devices upon entering a defined location or scanning a location ID. Then, upon leaving the area, the information will be removed from the screen or hidden unless accessed by an authorized user.

The Shadow feature allows users to share screen information with other devices based on proximity or login. For instance, an administrator can see the same screen on his mobile device that a technician is accessing on a computer without having to walk across the plant, look over the shoulder or switch seats. The access can be view only or interactive.

ThinManager Relevance is ultra-secure as all data is stored on secure central servers and no data is saved locally. If a device is lost or stolen, no information or administrative paperwork is compromised.

*Requires iTMC mobile client available from the Apple App Store or aTMC mobile client available from the ThinManager Downloads page.

# RELEVANCE
## USER SERVICES

Securely deliver content through user/role-based management.

## Multiple authentication techniques allows administrators to control access to terminals and applications.

**AUTHENTICATION** Allow users to identify themselves at any terminal using a standard login, and RFID proximity card, a USB flash key or a biometric security device. Greatly increase security by layering multiple authentication methods.

**SECURE DELIVERY** Relevance User Services can automatically deliver a user's content to any terminal they authenticate to. Allow programs to "follow" users throughout the entire plant. Even if content is already assigned to the terminal, Relevance User Services can deliver additional content, on the fly, based on the user's role. Terminal access and content can also be assigned at a group level.

**SCHEDULE** Limit a specific user to a weekly, daily or hourly schedule or disable the terminal itself at any time you choose.

**EXTEND** Drop the ActiveX control into your applications and you can program terminal and user specific functionality including session switching, event logging, and terminal status and management.

**SAVE** Preventing unauthorized access to your systems can prevent data theft and downtime

**ACTIVE DIRECTORY** All sessions require a Window's user account. Relevance User Services can automatically sync with your Active Directory allowing system admins to maintain user network security while allowing engineering and plant floor administrators to manage content delivery to the plant floor.

# RELEVANCE
## LOCATION RESOLVERS

Use location resolver technology to manage your modern mobile workforce.

## Location resolver technology is what sets Relevance apart from all other mobility solutions.

### Use QR Codes, Bluetooth, WiFi and GPS to define locations and securely deliver applications to mobile devices.

Relevance uses four different kinds of location resolver technologies to allow you to completely define your workspace as a location-based mobile facility. Once you have defined locations, you can deliver applications and content to PCs, thin clients and mobile tablets based on where they are located. This allows administrators to secure tethered workstations and mobile devices by delivering applications and content only to specific areas where that content is allowed to be accessed.

Location setup and configuration are easily managed using the ThinManager Relevance wizard-based setup tools. Administrators have full control over how locations and users are defined so that every person who interacts with the system only receives the content they are authorized to access.

Extra security can be easily employed by creating geofences. Geofences can be configured by combining two resolver technologies such as WIFI and QR codes. For instance, by nesting a QR code within a specific WIFI access point, administrators can deliver content when that code is scanned from within the WIFI access point and take away and/or deny access to the content when a person leaves the WIFI access point. Other resolver technologies can be combined to create geofences as well.

*Requires iTMC mobile client available from the Apple App Store or aTMC mobile client available from the ThinManager Downloads page.

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# MOBILE APPS

Run existing applications through a mobile tablet without writing code.

## Being mobile means being more productive.

### ThinManager® has created a tool for mobility that allows users to connect and access their resources on the move.

**TURN YOUR MOBILE TABLET INTO A THIN CLIENT**

ThinManager provides a client app for iOS and Android devices allowing them to operate as thin client devices. ThinManager's iTMC and aTMC let you deliver existing content to mobile devices. Use your HMIs and other applications on the move without writing any code.

*Enjoy a truly mobile thin client device.*

**iTMC** and **aTMC** supports popular ThinManager features like:

- Relevance for Users
- The new Relevance location-based mobile platform
- ActiveX Control
- Bar Code Scanning
- MultiSession
- Client to Client Shadowing
- Instant Failover
- Full Display Client overrides (Resolution, Login, Color Depth, etc).
- Disabling of Terminal Servers
- Full range of function keys, special keys (e.g. control, alt, F1, F2, etc).
- Custom background settings for company logo, etc.

**WinTMC** ThinManager's Windows® client application, can be used with tablets running full Windows 10 or higher to create a thin mobile experience on a Surface Pro tablet or other Windows 10 enabled device.

**NEW!** **WinTMC supports Virtual Screens in ThinManager 10.0**

# SMART SERVER

Give Your Centralized Servers a Higher IQ and a Safety Net.

Server Load Balancing. Auto-Configuration.

SmartSession determines the best server for each client session. Instant Failover runs sessions on a secondary server to prevent downtime.

As resources are used, SmartSession decides where to assign terminals to keep the Remote Desktop Servers running at peak efficiency.

**APP SERVER A**   **APP SERVER B**
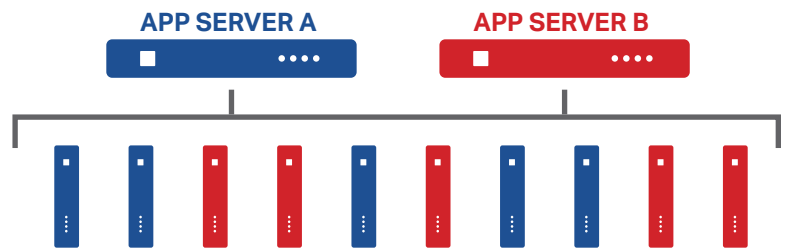


## SMARTSESSION

So you have numerous thin clients in your medical facility running important applications. These applications require multiple Remote Desktop Servers to support all of your thin clients. How do you decide which clients connect to which Remote Desktop Services servers? Why not let ThinManager decide for you?

When you use the SmartSession feature, you add the power of load balancing. Rather than manually configuring your clients to connect to one server or another, let ThinManager decide, in real time, exactly which terminal server is most available. SmartSession takes differing CPU levels, memory levels, and current session information into account to calculate the best server for your next client session.

If you add clients and require more server power to support them, simply drop another Remote Desktop Server onto your SmartSession group and it will be balanced with the others and ready to receive client sessions. Now there are no more complicated configurations to manage.

Use the queuing feature to minimize the server stress and disk trashing that can occur when many clients try to start sessions on a server simultaneously. Queuing brings clients on in an orderly fashion and keeps your systems running smoothly.

## INSTANT FAILOVER

ThinManager also provides the added safety of instant server failover. If a server does go offline, ThinManager immediately switches all clients to the backup without interruption.

# GET NOTIFIED

Choose from a variety of features to keep everyone informed.

Send emails from the ThinManager system directly to your authenticated email systems.

Important notifications can also be sent directly to an employee's mobile device.

ThinManager provides multiple ways to notify administrators and users when certain events are executed within the ThinManager network.

### AUTHENTICATED EMAIL
Authenticated email allows emails to be sent directly from corporate mail servers without the use of a proxy server.

### SMS MESSAGES
SMS allows text messages to be sent to users' mobile devices for instant insight into operational events.

### TERMINAL MESSAGES
Messages can also be sent directly from ThinManager to any terminal for real-time notifications to operators.

### REPORTING
Reporting allows historical documentation of every device, user and location that is managed within a ThinManager environment. Reports can be scheduled and sent at regular intervals if needed.

# LICENSING

Complete Platform.
Scalable Solution.
ROI Tools.

Unique hardware enabling technology. scalable thin client management solution.

## XLr STANDARD LICENSING   (5-Packs, 10-Packs, 25-Packs)

Relevance, MultiMonitor, PXE Boot, WinTMC, MultiSession, SmartSession, Virtual Machine Management , iOS Apps, AppLink, Automatic Failover, Instant Failover, Terminal Shadowing, Remote Management, Redundant Ethernet, Touchscreen Support, Shared Keyboard & Mouse and more.

## ENTERPRISE LICENSING

*A Redundant Enterprise Server License* can be installed on one or two machines. If installed on two machines, the machines must be configured as a synchronized ThinManager server pair. The license allows an unlimited number of concurrent terminal connections on a single network at a single facility.

## REDUNDANCY

ThinManager offers 2 options for redundant servers:
*Mirrored Redundancy* synchronizes a pair of servers, one acting as a primary server while the other acts as a "view only" interface.
*Full-Redundancy* uses a redundant pair of servers storing configurations on both with a fully accessible ThinManager GUI.

## RELEVANCE LOCATION-BASED MOBILE SOLUTION

Easily add location-based functionality to your ThinManager installation.

## MUNICI-PACK LICENSING

This licensing model allows for municipalities to allocate their licensing across multiple sites and facilities within a single municipal jurisdiction.

## Run the numbers...
download our ROI Calculator.

We have created a tool to help you calculate the savings when converting to ThinManager thin client technology. Download the free tool today!

*www.thinmanager.com/roi*

# PLATFORM MAINTENANCE

Version Upgrades.
Expert Phone Support.
Exclusive Discounts.
Upgrade Credit Eligibility.
Ownership/Location Transfer Eligibility.

Platform Maintenance is a full-featured plan designed to ensure that ThinManager systems evolve with your facilities at the lowest possible out of pocket investment.

## VERSION UPGRADES UPON RELEASE

Platform Maintenance includes upgrades to ThinManager, ThinServer, Relevance, ThinManager firmware, terminal capabilities database, and touchscreen drivers as long as your Platform Maintenance plan is up to date at the time of the new release. A less expensive way to keep your system current DOES NOT EXIST! Platform Maintenance saves you from having to make more costly upgrade purchases down the road.

## ACCESS TO LIVE TECH SUPPORT

The ThinManager tech support department is run by the same people who develop ThinManager. Your call will be directed quickly to a friendly, knowledgeable member of our tech support team to assist you with ThinManager in order to ensure you have as much uptime as possible.

## EXCLUSIVE DISCOUNT OPPORTUNITIES

Platform Maintenance customers enjoy exclusive discounts on a variety of items such as technical hands-on training events, new product offerings, ThinManager customer events and more.

## ELIGIBILITY FOR CREDITS IN UPGRADE TO ENTERPRISE/FLX

ThinManager is a highly scalable solution. For Platform Maintenance customers looking to scale up from their initial install to Enterprise or Flex licensing, ThinManager offers direct credits toward your upgrade. Upgrade credits are based on the value of your initial purchase.

## ELIGIBILITY FOR OWNERSHIP/LOCATION TRANSFERS

Platform Maintenance customers are eligible for no-cost location transfers of ThinManager licensing.

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**Rockwell Automation**

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