# ThinManager

Delivering the Connected Enterprise

# What is ThinManager® ?

# ThinManager®

**ThinManager Securely Delivers Content**



**DELIVER CONTENT IN 3 WAYS**

**Content Types**

*Windows Based*
- HMI
- MES
- CMMS
- ERP
- Web Content
- IP/USB Cameras
- Terminal Shadow
- Panels

*VNC*
- Linux/Unix

By Device

By User

By Location

**Devices**
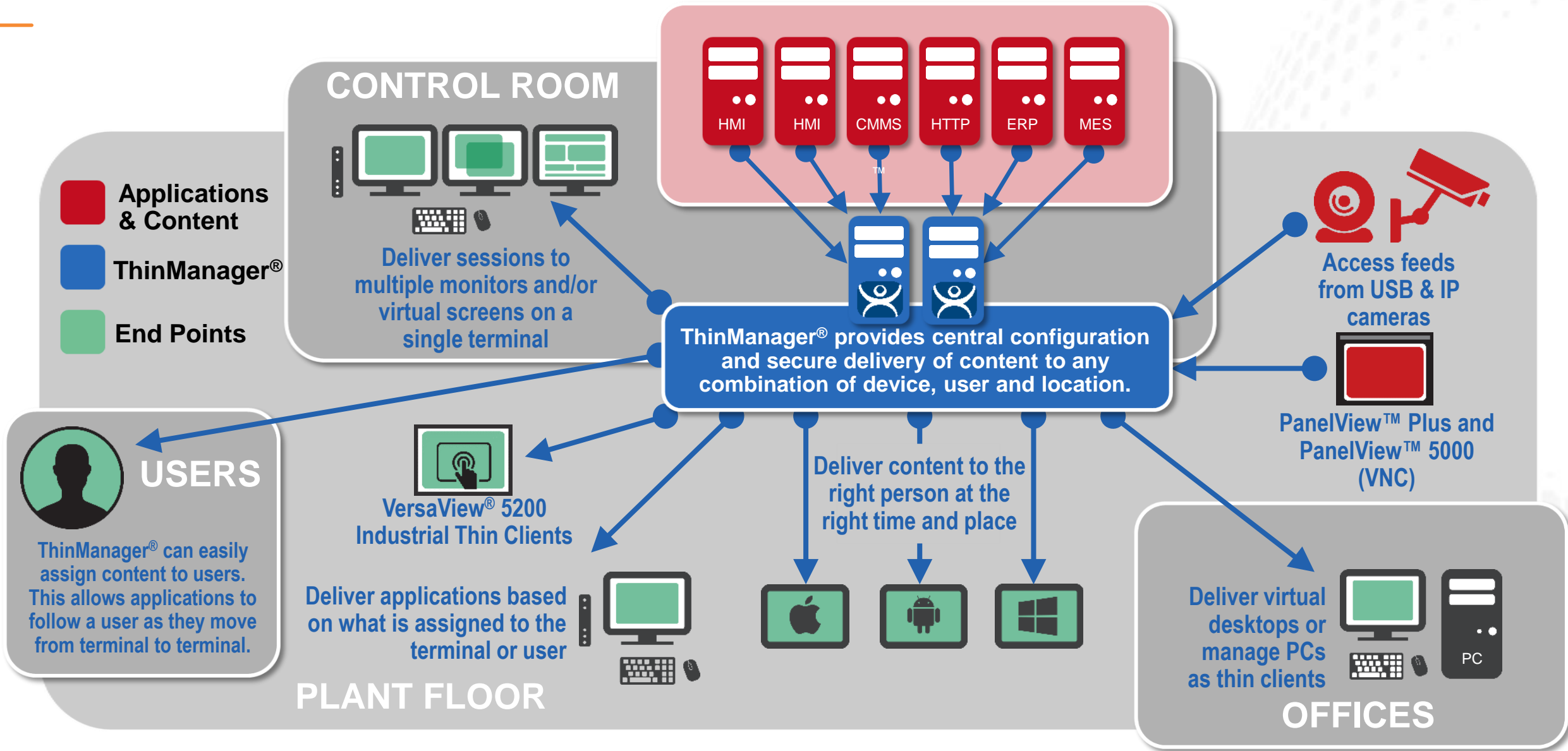- Thin/Zero Clients
- Mobile Devices
- PCs
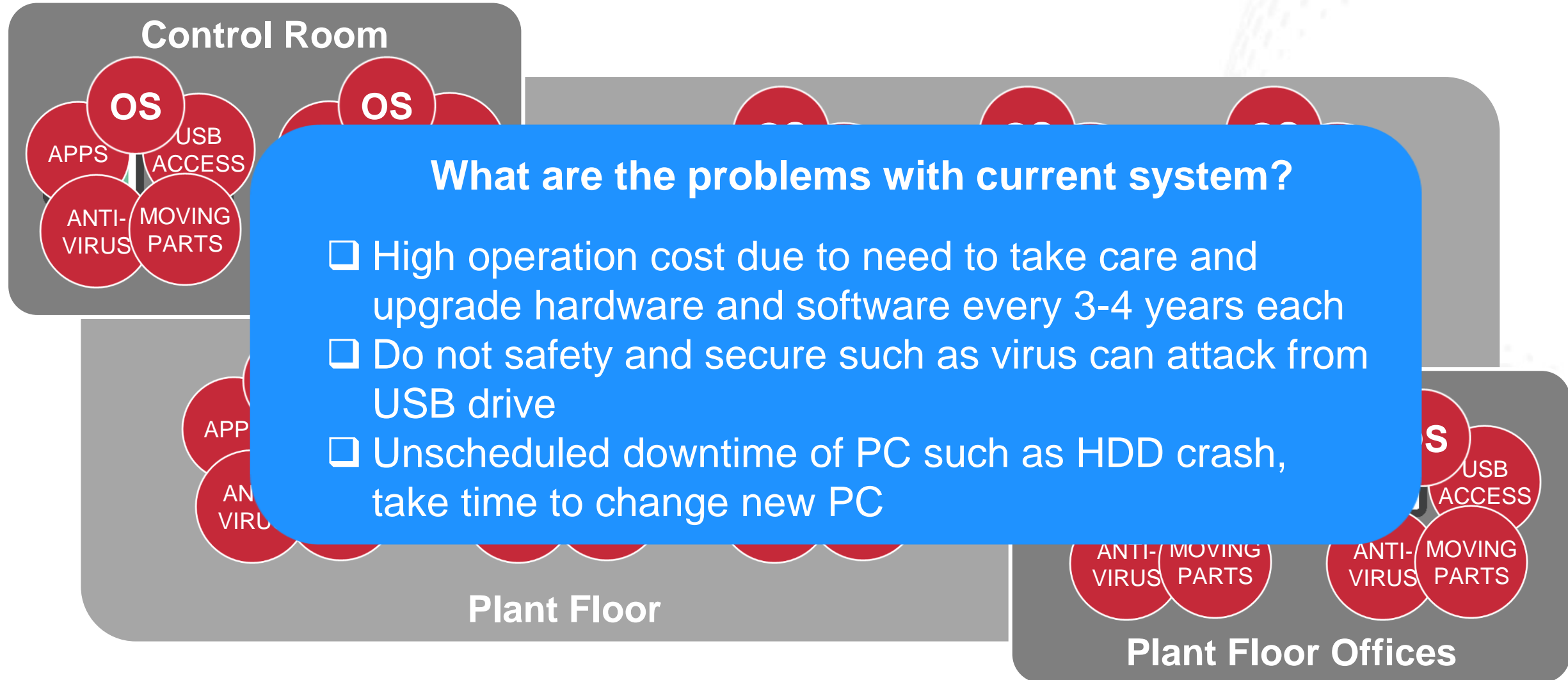
**Users**
- Individuals
- User Groups

**Locations**
- Facility
- Lines/Areas
- Assets/Devices

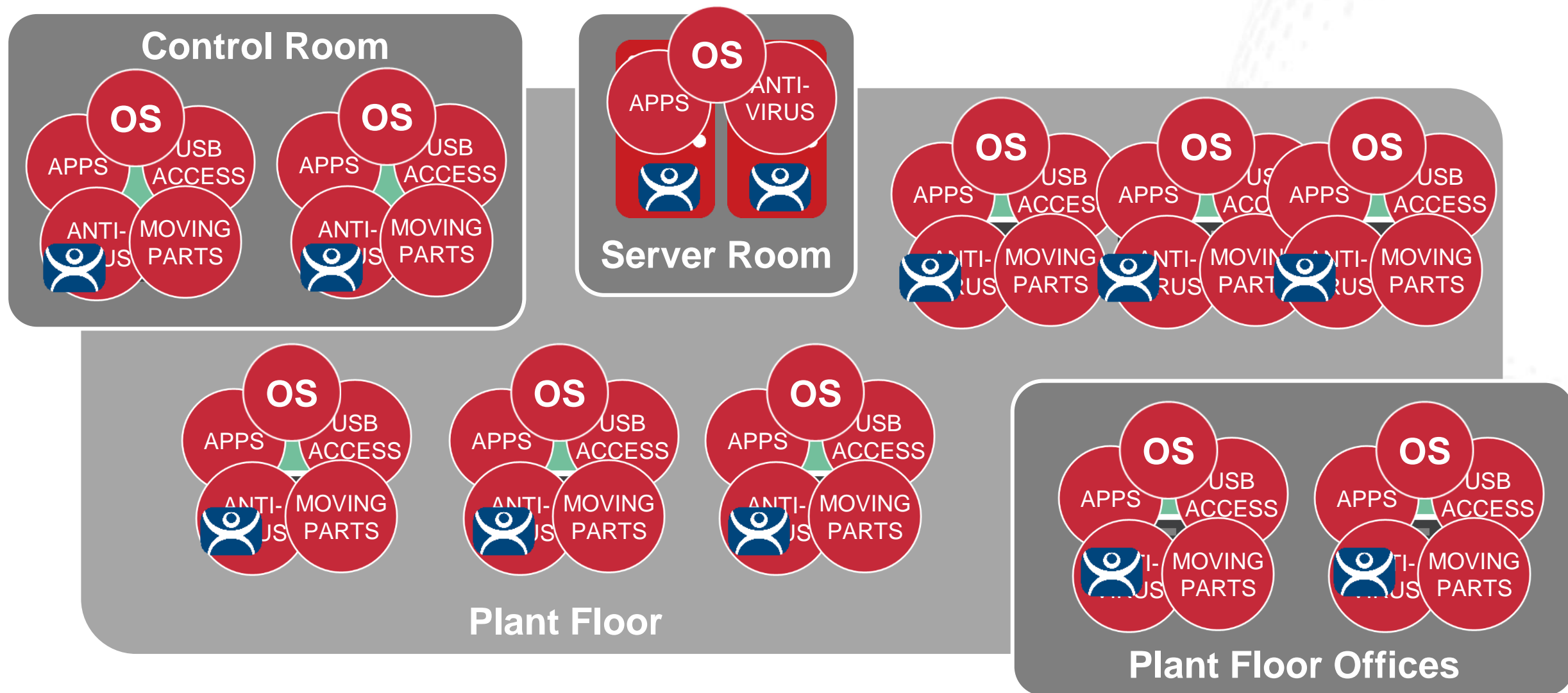ThinManager will safely and securely **deliver Content** to any combination of **Device**, **User** and **Location**.

**CONTROL ROOM**

HMI | HMI | CMMS | HTTP | ERP | MES

™

Applications & Content

ThinManager®

End Points

Deliver sessions to multiple monitors and/or virtual screens on a single terminal

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

Access feeds from USB & IP cameras

PanelView™ Plus and PanelView™ 5000 (VNC)

**USERS**

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

Deliver virtual desktops or manage PCs as thin clients

PC

**PLANT FLOOR**

**OFFICES**

# Traditional PC Based Approach

**Dedicated PCs for Dedicated Applications**

**Control Room**

OS
APPS
USB ACCESS
ANTI-VIRUS
MOVING PARTS

OS

**Plant Floor**

APPS
ANTI-VIRUS

**Plant Floor Offices**

USB ACCESS
ANTI-VIRUS
MOVING PARTS
ANTI-VIRUS
MOVING PARTS

## What are the problems with current system?

- ☐ High operation cost due to need to take care and upgrade hardware and software every 3-4 years each
- ☐ Do not safety and secure such as virus can attack from USB drive
- ☐ Unscheduled downtime of PC such as HDD crash, take time to change new PC

# ThinManager® Approach
## Replace PCs with ThinManager ® - Managed Thin Clients and Manage Centrally

**Control Room**

**Server Room**

**Plant Floor**

**Plant Floor Offices**

# Compare Traditional system and ThinManager



Server

OS
APPS
USB ACCESS
ANTI-VIRUS
MOVING PARTS

Server

OS
APPS
USB ACCESS
ANTI-VIRUS
MOVING PARTS

Thin Client          Thin Client          Thin Client

Hardware
CD Rom
HDD
USB drive

Hardware
USB for mouse, keyboard (Can disable)

Software
Windows
Application (SCADA or MS office)
Anti-Virus

Software
Only server needed
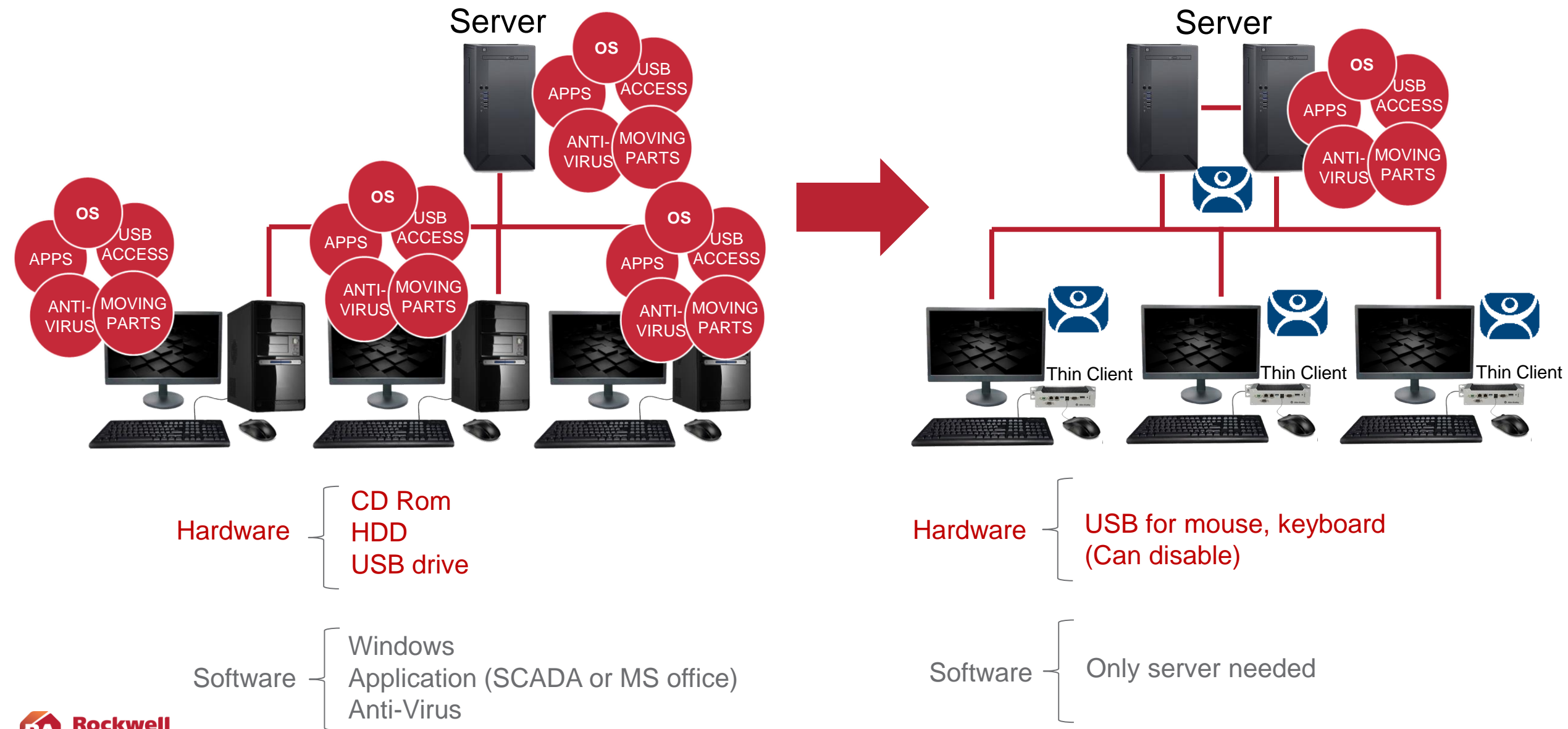
# Highlight Feature

## Session Tiling



Thin Client

View up to 25 sessions on a single monitor. Click any tile to launch a full screen working session.

# Highlight Feature

## Virtual Screens



Thin Client

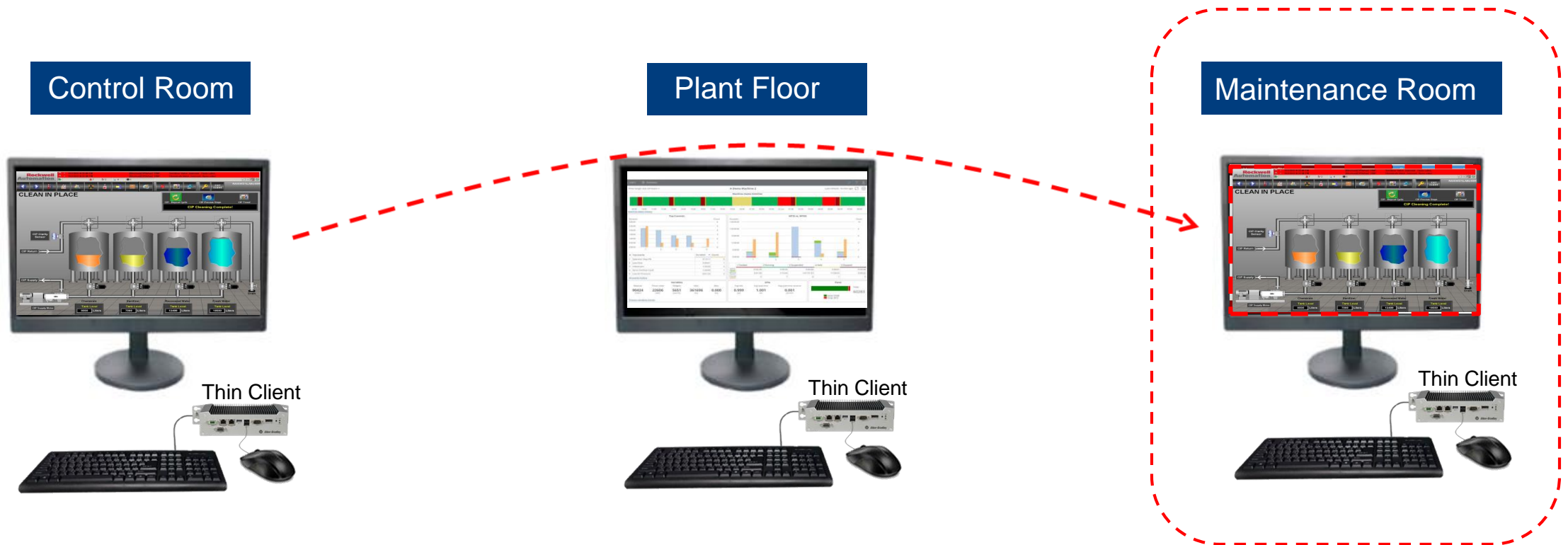Split any screen into multiple sections (up to 16) with custom sizing

# Highlight Feature

## Multi-Monitor



Thin Client

One ThinClient can support 5 monitors (depend on model)

# Highlight Feature
## Terminal to Terminal Shadowing



Control Room

Plant Floor

Maintenance Room

Thin Client

Thin Client

Thin Client

Maintenance want to see control room monitor

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# Highlight Feature

## VNC and IP/USB camera viewing (shadow)

HMI
(any brand support VNC)

IP/USB Camera

Thin Client

# Highlight Feature
## Relevance for Users

**Control Room**



Thin Client

**Plant Floor**



Thin Client

**Maintenance Room**



Thin Client

ID reader

Securely deliver content through user/role-based management.

**Biometric Security**

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# Highlight Feature

## Relevance for Mobility and Location



The ability to deliver the right content to the right person at the right time and place with location-based mobility.

# ThinManager "Zero" Client Characteristics

- No OS or Firmware

- Industrially Robust (for Plant Operation)

- Industrial

  - LAN

  - Video

  - Network

  - USB

**Selection Considerations -** CPU, RAM, GPU, Video Outs, USB, Serial, Audio

# Why Use ThinManager® for Thin Clients?

## 1 Ease of use
- No local configuration of thin client required
- Admin console and terminal to terminal shadowing
- Industrial thin clients & broad touchscreen support
- Extensibility with ActiveX control

## 2 Reduce Downtime
- Automatic Remote Desktop Server failover
- Redundant networking options at thin client
- Aggregate multiple content sources at 1 terminal

## 3 Improve Operational Efficiencies
- OT-Centric solution designed for the plant floor
- Visualize content with tiling & virtual screening
- IP/USB Camera integration
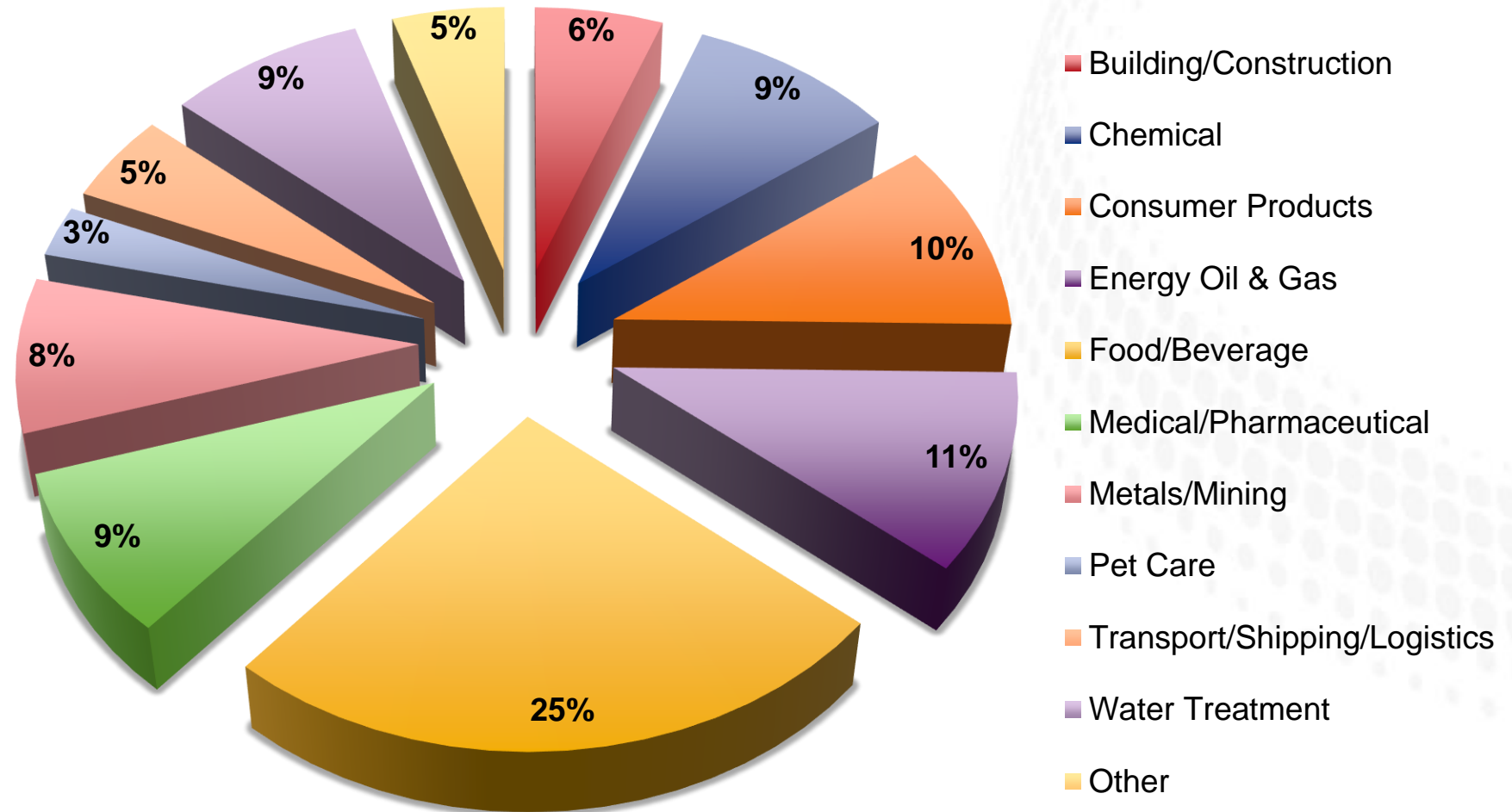- Location-based mobility (Relevance)

## Configuration Wizards
Easily select the functionality you need **without any coding.**

## Quick Replacement
Most ThinManager thin clients can be replaced by anyone in **under 2 minutes** without any loss of data.

# Industry Customer Reference

- The ThinManager® platform is applicable across a broad spectrum of process and discrete industries, as the chart depicts

- The value proposition applies equally across the broad expanse of this space with over 60,000 seats sold at over 4,500 locations worldwide



Pie chart values:
- 6%
- 9%
- 10%
- 11%
- 25%
- 9%
- 8%
- 3%
- 5%
- 9%
- 5%

Legend:
- Building/Construction
- Chemical
- Consumer Products
- Energy Oil & Gas
- Food/Beverage
- Medical/Pharmaceutical
- Metals/Mining
- Pet Care
- Transport/Shipping/Logistics
- Water Treatment
- Other

# ThinManager Customer Reference (Thailand)

Manufacturing

Others

# Flexibility in Licensing

- ThinManager licensing enables flexible and extensible architectures to be easily implemented, extended and maintained.
    - Basic Server Licenses
    - Client License Packs (5, 10, 25)
    - Enterprise Server Licenses
    - Platform Maintenance and Support (includes upgrades)

# How is it Licensed?

**CLIENT CONNECTIONS**
**Sold in Packs of 5, 10 or 25**

**ENTERPRISE SERVER**
**Unlimited Client Connections**
**Including Full Redundancy**

**ThinManager Also Offers Redundant Licensing Options to Sustain High Availability**

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# Platform Maintenance Benefits

- ThinManager Version Upgrades
  - Keeps your investment current
- Upgrade Credit Eligibility
  - Credit to upgrade to Enterprise Server
- Ownership / Location Transfer Capability
  - Cannot move a license otherwise – useful for OEM/SI
- Discount Opportunities
  - Promotions, Functional Upgrades, Training, Events
- Live Telephone Support via local Tech Support (local business hours)
  - 24/7 Worldwide availability

# Thank you

**Rockwell Automation**