

ThinManager

Licensing



Agenda

- Three License Types
- Concepts for ThinManager Licensing
- License Activation Demo



Three Licenses

- ACP ThinManager
 - Allows terminal to boot
- Microsoft
 - Allows terminals to start sessions
- Application
 - Allows applications to run



Microsoft Licenses

- Terminal Services Client Access License
 - TS CAL
 - Required for connection to terminal servers
 - Available as "Per Device" or "Per User"
- Remote Desktop Services CAL
 - RDS CAL
 - Name change in Server 2008 R2
- License Server is the repository for licenses
 - Application role, not specific hardware device



Terminal Services Configuration

- Sets Licensing Mode
 - Per Device
 - Per User
- Specifies License Server
 - Automatic discovery
 - Specific server



Server 2003

🚆 tscc - [Terminal Services Configuration\Server Settings]								
<u>File Action View H</u> elp								
Terminal Services Configuration Connections Server Settings	Settings Delete temporary folders on exit Use temporary folders per session Licensing Active Desktop Permission Compatibility Restrict each user to one session License server discovery mode	AttributeYesYesPer UserDisableRelaxed SecurityYesAutomatic						



Server 2008 R2





Application Licenses

- Usually per active session
- Methods depend on the vendor
- See application vendor for details



Concepts for ThinManager

- Failover versus Redundancy
- Standard versus Enterprise License
- License Activation





Redundancy vs. Failover

- Redundancy = Two ThinManager Servers
 - Used when starting thin clients
- Failover = Two Terminal Servers
 - Used while running sessions and applications



• Assign Terminal to two Terminal Servers







• Primary Server Failure...







• Switches to Backup







• Terminal Starts Application on Backup



• Data from PLC remains constant...





Not Fast Enough?

- Switch takes 20 seconds
- Application may take 1 3 minutes to load



- Load two sessions at once
- No need to wait for application to load





• Primary Server Failure...





• Secondary takes the focus...





• Production continues uninterrupted...



• Data from PLC remains constant...



ACP

ThinManager Components

ThinServer

- Windows service
- Database engine
- Does the actual work
- ThinManager
 - User interface
 - Allows users to see and configure database
- Both components make a ThinManager Server



Redundancy

- Full Redundancy
 - Two Synchronized ThinServer engines
 - Two administrative ThinManager interfaces
- Mirrored Redundancy
 - Two Synchronized ThinServer engines
 - One administrative ThinManager interface
- Stand-alone
 - One ThinServer engine
 - One administrative ThinManager interface



Redundant ThinManagers

- Two ThinServers auto-synchronized
- Terminal can boot from either ThinServer
- Two ThinManager Interfaces





Redundancy

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- Mirrored Redundancy
 - Two Synchronized ThinServer engines
 - One administrative ThinManager interface
- Stand-alone
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Mirrored ThinManagers

- Two ThinServers auto-synchronized
- Terminal can boot from either ThinServer
- ThinManager Interface on Primary only





Redundancy

- Full Redundancy
 - Two Synchronized ThinServer engines
 - Two administrative ThinManager interfaces
- Mirrored Redundancy
 - Two Synchronized ThinServer engines
 - One administrative ThinManager interface
- Stand-alone
 - One ThinServer engine
 - One administrative ThinManager interface



Stand-Alone ThinManager

- One ThinServer
- Terminal boots from single ThinServer
- One ThinManager Interface





Two License Modes

- Standard Licenses
 - 5, 10, 25-packs
 - Redundant, Mirrored, or Stand alone
- Enterprise
 - Unlimited terminal connections
 - Full Redundancy



Enterprise

• Server

- Unlimited Terminal Connections
- Redundant pair of ThinManager
- One Location
- Site
 - Unlimited Connections
 - Unlimited ThinManagers
 - One Site





ACP

Enterprise

• Server

- Unlimited Terminal Connections
- Redundant pair of ThinManager
- One Location

• Site

- Unlimited Connections
- Unlimited ThinManagers
- One Site







Licensing Steps

- Buy Product Licenses from VAR/distributor
- Go to License Site on Web
- Create a Master License
- Add Product Licenses
- Activate Master License with Install ID from ThinManager
- Apply Master License to ThinManager



Licensing Window in ThinManager

🕿 ThinManager v6.0					23	
Edit Manage Install Tools View	RemoteView Help					
E 🖄 Cobalt	Configurati	on Licenses Properties	Versions Synchron	nization Event Log		
Licensing	and an a		1.000			
Master License Number	ABCD-1234-5678-9AF0			Install License		
Created on Web Site			Delete License			
License Number De	escription	Redundancy	Expiration		E	
12345678-12345678 XL	i Redundant License	full	Never			
Installation Id COBALT (prim		4.ABCD-1234				
		1 ABCD-1234				
	LU ABLU-1234-30/8-123	+-ADCU-EFFU				
License Details	Generated by ThinManager	nstall Demo Code Sho	w Old Licenses	Done	-	
For Help, press F1						





ThinManager

Thank You

