12Display Servers

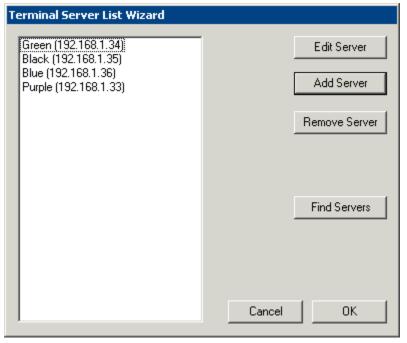
Display Servers are devices that provide content that can be displayed on the client. Examples include the traditional terminal server and IP cameras.

The Terminal Server List Wizard allows configuration of Terminal Services Display Servers. The Camera Configuration Wizard allows configuration of Camera Display Servers

12.1 Terminal Services Display Servers

The Terminal Server List Wizard can be launched by:

- Right clicking on the Display Servers Terminal Servers branch and choosing the *Add Terminal* Server command
- Right clicking on the Display Servers Terminal Servers branch and choosing the *Edit Terminal Server* command.



Terminal Server List Wizard

Importance of Page: This allows you to define the terminal servers that will be used within ThinManager.

Fields:

• **{Unnamed)** – The list box will contain the names and IP addresses of defined terminal servers.

Buttons:

- *Edit Server* This will open the properties for a highlighted terminal server in the list.
- **Add Server** This will launch the Terminal Server Configuration Wizard to allow a new terminal server to be defined.. See
- Remove Server This will remove a highlighted terminal server from the list.
- *Find Servers* This will launch the **Available Terminal Servers** window for automated terminal server addition.
- **Cancel** This will close the wizard without action.
- **OK** This will close the wizard after accepting changes.

Why Change from Default Settings: The terminals require terminal servers to connect and run sessions on.

Available Terminal Servers	×
Choose a Terminal Server to Add	Cancel
Domain or WorkGroup to search	
	Find

12.1.1.1 Available Terminal Servers Search

Available Terminal Server Window

The **Available Terminal Servers** window will display any Microsoft[©] terminal servers that are a member of the same domain or workgroup as ThinManager. Select the **Find** button to display the member servers.

Available Terminal Servers	×
Choose a Terminal Server to Add Domain or WorkGroup to search	Cancel
ACP	Find
BLACK BLUE BROWN CREAM GREEN TAN	

Available Terminal Server Window

The **Domain or WorkGroup to Search** field will allow ThinManager to search a different domain or workgroup. Enter the domain of workgroup to search and select the **Find** button to display the member servers.

Once the terminal servers are listed, highlight one and select the **OK** button to add it to the Terminal Server Configuration Wizard. This will launch the Introduction page of the **Terminal Server Wizard**.

😕 Terminal Server Wizard			×
Terminal Server Wizard Introduction			$\mathfrak{>}$
The Terminal Server Wizard def This allows the listing of Termina			twork.
If you are using a DNS server your for a server you are not using a DNS server. The server name must be the	er you will enter a	server name and If	^o address.
< Back	Finish	Cancel	Help

12.1.1.2 Terminal Server Wizard Introduction Page

Terminal Server List Wizard Introduction

Importance of Page: This displays introductory information.

Select *Next* to continue or *Cancel* to close without saving.

😕 Terminal Server Wizar	d					×
Terminal Server Name Enter the Terminal Ser		e and Log) In inforr	mation.	X	\prec
Terminal Server Name	1					
Terminal Server IP	255	. 255	255	. 255	Discover	
Log In Information						
User Name						
Password						
Verify Password	1					
			[Schedul	2	
Please enter a valid IP Ad	dress					
< <u>B</u> ack <u>N</u> ext>		Finish		Cancel	Help	

12.1.1.3 Terminal Server Name Page

Terminal Server List Wizard – Terminal Server Name

Importance of Page: This page defines the terminal server and allows the addition of an administrative user account for increased management.

Fields:

- Terminal Server Name Enter the computer name as found in the Microsoft© System Properties (NetBIOS name). The name will already be entered if the *Find* function on the Available Terminal Servers window was used.
- Terminal Server IP Entered the IP address of the terminal server.

Login Information – Enter a Windows user account with administrative rights for the terminal server if you wish to display data from the terminal server within ThinManager. This is required to populate the User, Sessions, and Process tabs of the details pane. See Details Pane for details.

- **Domain** Enter the domain for the computer, if it is a member of a domain.
- User Name Enter the user name of the administrative account here.
- Password Enter the password for the administrative account used in the User Name field.
- **Verify Password** Re-enter the password for the administrative account used in the user name field. Passwords that do not match will be indicated by a warning message on the page.

Buttons:

- **Discover** The **Discover** button will automatically fill in the IP address for a terminal server listed in the **Terminal Server Name** field.
- Schedule The Schedule button will launch the Event Schedule for the terminal server. This allows the scheduling of repeated functions like rebooting and disabling. See Scheduling for details.

Why Change from Default Settings: ThinManager uses a connection to the terminal server to pull the process, user, and session information for the detail pane tabs and to determine the load for SmartSession load balancing. Entering a username and password in the *User Name* and *Password* fields allows ThinServer to connect to the server for this data.

Select *Next* to continue, *Finish* to save and close, or *Cancel* to close without saving.

5		
ICA Device Service psoft Remote De ver Options	Device Services soft Remote Desktop Protocol ver Options	ICA Device Services osoft Remote Desktop Protocol

12.1.1.4 Terminal Server Capabilities Page

Terminal Server Capabilities

Importance of Page: This allows a terminal server to be used for SmartSession. It also defines what communication protocols the server can use.

Settings:

- Supported Connections This is a list of client/server communication protocols that the terminal server can use.
 - *Citrix ICA* Check this checkbox if a Citrix server-side program is installed on the terminal server to provide the ICA protocol.

- Citrix Device Services Check this checkbox if Citrix Device Services is installed and licensed on the terminal server. Citrix Device Services is a legacy deployment of the ICA client but is no longer supported by Citrix. Thin clients can still connect to terminal servers with Device Services, but no new Device Services terminal servers can be licensed.
- Microsoft Remote Desktop Protocol RDP is installed by default on Windows Terminal Servers. Uncheck the Microsoft Remote Desktop Protocol checkbox if you don't want to access to the terminal server with the protocol.
- Available for Smart Session Server This checkbox makes the terminal server available for Application Groups that use SmartSession to provide load balancing. See Display Client SmartSession Settings Page for more details.

Why Change from Default Settings: Add SmartSession if you want to use SmartSession. Add Citrix ICA if that is being used.

Note: Configuring a terminal server to use SmartSession uses a SmartSession license.

Select *Next* to continue, *Finish* to save and close, or *Cancel* to close without saving.

Data Gathering In	tervals		
	Fast		
	O Medium		
	C Slow		
	C Custom		
SmartSession Data	Update Interval	8 2	seconds
	erval	5	seconds
Process Update Inte			

12.1.1.5 Data Gathering Page

Data Gathering

Importance of Page: This page sets the frequency that ThinManager polls the terminal servers for user, session, and process information.

Settings:

- **Data Gathering Intervals (Fast/Medium/Slow)** These settings set the rate of the frequency that ThinManager polls the terminal server for data.
- Data Gathering Intervals (Custom)- This setting allows the polling speeds to be set.
 - Smart Session Data Update Interval is the amount of time between the retrieval of SmartSession data, CPU usage, memory usage, and session count, from the terminal server. This setting affects the update speed of the Server Rankings used in SmartSession load balancing.
 - **Process Update Interval** is the amount of time between the retrieval of the process information on the terminal server. This setting affects the speed of the update of the process information on the Processes tab for the terminal server.
 - **Session Update Interval** is the amount of time between the retrieval of session data from the terminal server. This setting affects the speed of the update of the user information for the sessions on the Users and Sessions tabs for the terminal server.

Why Change from Default Settings: Faster rates will lead to quicker updates but will add more network traffic. Slowing down the rate will cause less traffic but will slow the update rate a little.

Select *Next* to continue, *Finish* to save and close, or *Cancel* to close without saving.

If this terminal server is used as a SmartSession server, the *Next* button will go to a SmartSession Configuration page. If this terminal server is not configured as a SmartSession server, the *Next* button will be grayed out and the *Finish* button will close the wizard.

Terminal Server Wizar	ď		
Smart Session Configu Enter the Smart Sessio	ration on limits for this Termina	l Server.	>
CPU Utilization			
	Minimum	0.0	%
	Maximum	100.0	%
Memory Utilization			
	Minimum	0.0	%
	Maximum	100.0	%
Sessions			
	Minimum	0	
	Maximum	50	
c Deals that	Finish	Cancel	Li li ale
< <u>B</u> ack <u>N</u> ext >	Finish	Cancel	Help

12.1.1.6 SmartSession Configuration Page

Terminal Server List Wizard - SmartSession Configuration

Importance of Page: This allows SmartSession data to be tweaked.

ThinManager uses the **CPU utilization**, **Memory utilization**, and **number of sessions** on the terminal server to define the SmartSession terminal server's available resources. ThinManager uses these resource values to rank the load of the SmartSession servers. ThinManager supplies this load data to the terminals to allow the terminals to connect to the terminal server with the lightest load and greatest available resources.

The **SmartSession Configuration** page allows the configuration of the three parameters that ThinManager uses to determine availability for SmartSession. ThinManager will scale the range between the Minimum field and Maximum field as 100%.

Settings - The three values used in SmartSession are:

- CPU Utilization The percentage of CPU usage on the terminal server.
- Memory Utilization The percentage of CPU usage on the terminal server.
- Sessions The number of sessions on a terminal server.

Fields:

• **Minimum** – the value that ThinManager will use as the starting point of the load. A value below the *Minimum* is considered to be unused.

• **Maximum** – the value that ThinManager will consider the parameter as reaching 100% utilized and is unavailable.

Why Change from Default Settings: Changing the Minimum and Maximum values will change the range used to calculate SmartSession loads and can influence SmartSession behavior.

Select *Finish* to save and close or *Cancel* to close without saving.

12.2Camera Configuration Wizard

The **Camera Configuration Wizard** allows an IP Camera to be configured as a Display Server within ThinManager.

Launch the **Camera Configuration Wizard** by right clicking on **Cameras** in the Display Servers branch and selecting **Add Camera**.

Camera Configuration Wi	zard		×
Camera Name Enter the camera name a	nd network location		\mathfrak{R}
Camera Name			
		Change Group	
Camera Model			
Make	Generic	•	
Model	Default	•	
Camera Network Setup			
IP Address		•	
Port	80		
Please enter a Camera name			
< Back Next >	Finish	Cancel Help	>

12.2.1.1 Camera Name Page

Camera Configuration Wizard

Importance of Page: This page names and addresses the IP Camera. **Fields and Settings:**

- Camera Name and Group
 - **Camera Name** Enter a name for the camera.
 - Change Group This button allows the camera to be added to a Camera Group.
- Camera Model
 - Make Use the drop-down to select a manufacturer.
 - Model Use the drop-down to select a model.
- Camera Network Setup
 - **IP Address** Enter the IP address of the IP camera.
 - **Port** Enter the port used.

Why Change from Default Settings: Each camera needs to be defined.

The first page of the camera configuration wizard requires that a camera name be entered. Select the make and model of the camera you are configuring and the IP address and Port that has been previously assigned to the camera. The IP address and port are set by using the camera manufacturers configuration software or through the use of the camera's web browser interface.

Camera Configuration Wizar Camera Authentication Enter the camera usemame a			$\stackrel{\scriptscriptstyle imes}{\sim}$
Usemame Password Verify Password			
< <u>B</u> ack <u>N</u> ext >	Finish	Cancel	Help

12.2.1.2 Camera Authentication Page

Camera Authentication

Importance of Page: This page provides authentication, if needed.

Fields:

- **Username** Enter a username, if needed.
- Password Enter a password, if needed
- **Verify Password** Re-enter the password for accuracy.

Why Change from Default Settings: If your camera requires authentication enter it on this page. If the camera has been configured to allow anonymous connections, leave the information blank.

The terminal uses the authentication information when connecting to the camera. Authentication information is setup in the camera by using the camera manufacturers configuration software or through the use of the camera's web browser interface.

Resolution	640x480	
Frames per second	5	
Compression (0-100)	30	
Show Clock	NO	
Show Date	NO	
Show Text	NO	
Text Position	ТОР	
Text		

12.2.1.3 Camera Model Options

Camera Model Options

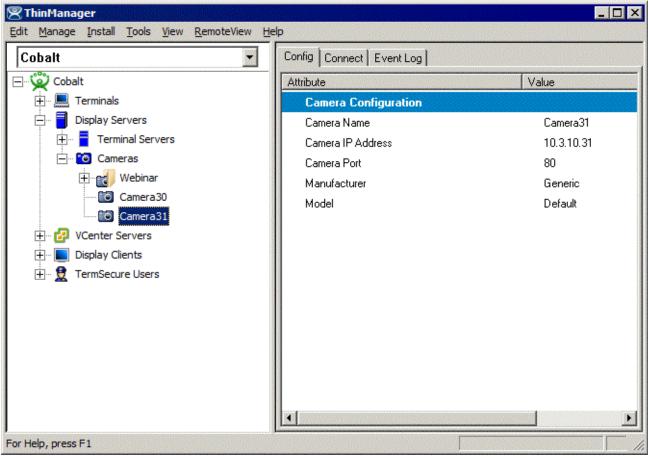
Importance of Page: This page allows additional camera configuration.

Fields:

- Include Camera Options This checkbox shows addition options when checked.
- **Options** The options shown vary by make and model of the camera hardware. Please see camera documentation for their help.

Why Change from Default Settings: The camera can controlled in finer detail.

Some cameras support additional configuration options. These options can be configured on this page. If you wish to use the default options then leave the *Include Camera Options* unchecked. The newly created camera will appear in the ThinManager tree as follows.



Camera Tree View

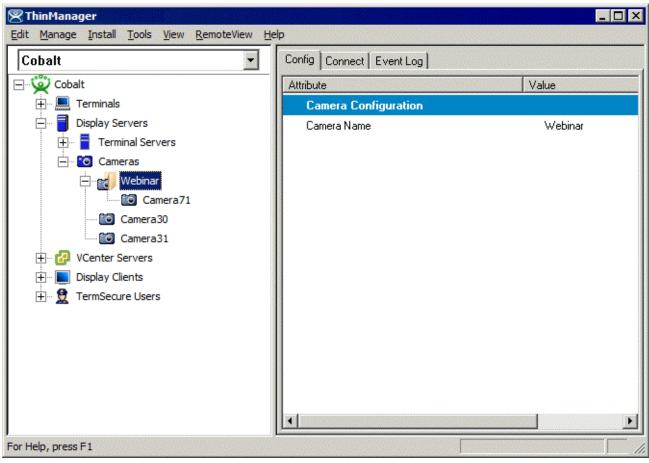
12.2.2 IP Camera Group Configuration

The camera group configuration wizard can be launched by right clicking on the **Cameras** branch of the ThinManager tree and selecting the **Add Camera Group** option.

Camera Configuration Wizard Camera Group Name Enter the camera group name	×
Camera Group Name Camera Group Name Webinar	
	Change Group
< <u>B</u> ack <u>N</u> ext > Finish	Cancel Help

Add Camera Group Wizard

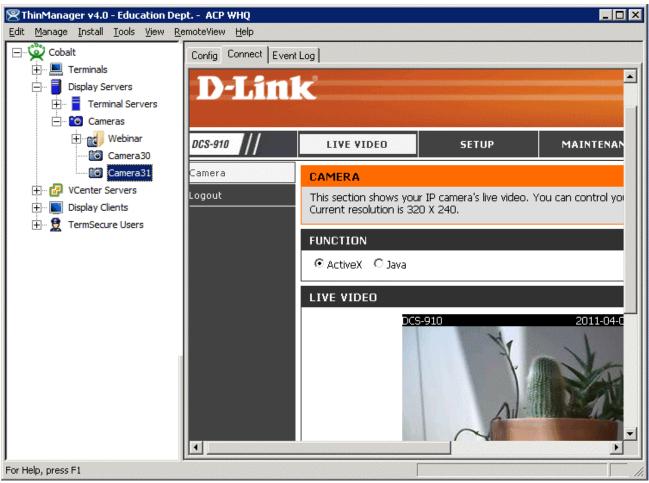
Enter the Camera Group Name and select *Finish.* The Camera group will be shown in the ThinManager tree as follows.



Camera Group Tree View

12.2.3 IP Camera Administration

Once a camera is configured in ThinManager, the *Connect* tab can be used to connect to the camera and perform camera administration from ThinManager.



Camera Connect Tab

Camera log in information may be requested when using the connect tab. The authentication information entered during the camera configuration is not used when using the connect tab.