

VTRAK M310p, M210p Quick Start Guide

Version 1.1

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VTrak M310p, M210p Task List

- Step 1: Unpack the VTrak (below).
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Step 1: Unpack the VTrak

The VTrak box contains the following items:

- VTrak Unit
- Quick Start Guide
- Null Modem Cable
- 1.0m External VHDCI SCSI cable (2 for M310p; 1 for M210p)
- Screws for disk drives (52 for M310p; 36 for M210p; including 4 spares)
- 1.5m (4.9 ft) Power cords (2 for US and 2 for Europe)
- Mounting rail sets (1 pair)
- CD with SNMP files, Product Manual and Quick Start Guide



Warning

The electronic components within the VTrak disk array are sensitive to damage from Electro-Static Discharge (ESD). Observe appropriate precautions at all times when handling the VTrak or its subassemblies.



Important

Use the following categories of network cables with VTrak:

- Cat 6, preferred
- Cat 5E, minimum

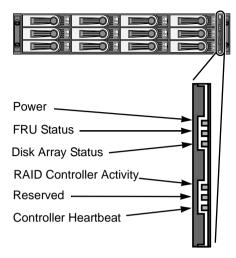


Figure 1. VTrak M310p Front View (M210p is similar)

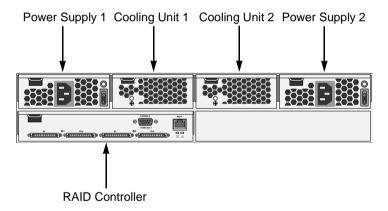


Figure 2. VTrak M310p/M210p Rear View

Step 2: Mount VTrak in a Rack

The VTrak M310p/M210p subsystem installs directly to the rack with or without using the optional mounting rails. Refer to Chapter 2 of the *VTrak Product Manual* on the software CD for instructions on installing the rails and mounting your VTrak.

Step 3: Install Disk Drives

You can populate the VTrak with 1.5 GB or 3.0 GB SATA drives. Refer to Chapter 7 of the *VTrak Product Manual* on the software CD for the number of drives needed for each RAID configuration.

Install all of the drive carriers into the VTrak enclosure to ensure proper airflow, even if you do not populate all the carriers with disk drives.

If you use different size disk drives in the same logical drive, the total size of the logical drive will equal the size of the smallest disk drive times the number of drives.

Refer to Chapter 2 of the *VTrak Product Manual* on the software CD for diagrams showing how the drive slots are numbered.



Caution

Use only the counter-sink screws supplied with the VTrak. Use of other types of screws can damage the adjacent drives.

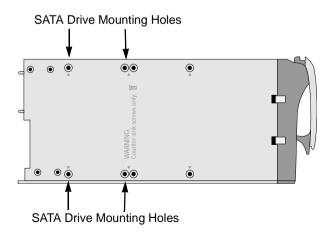


Figure 3. VTrak M310p/M210p drive carrier mounting holes



Figure 4. SATA Disk Drives mount at the front of the carrier



Note

Unlike other VTrak models, the M310p and M210p do not support Parallel ATA disk drives. There is no PATA-to-SATA adapter available for these models.



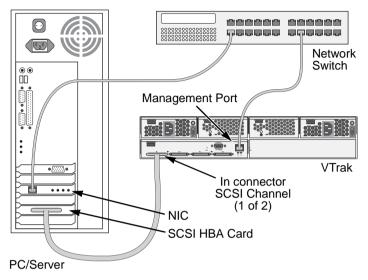


Figure 5. VTrak M310p/M210p DAS connections

This arrangement requires:

- A network switch
- A network interface card (NIC) in the PC
- A SCSI HBA card in the PC
- A SCSI cable that fits your HBA card and has a VHDCI connector to fit the VTrak SCSI channel

VTrak's SCSI connectors are bi-directional. However, the internal termination feature works only on the "Out" connector. Internal termination is set to "Automatic" by default.

Connect the PC's standard NIC and VTrak's Management Port to your network switch to establish the management path.

Connect a SCSI cable to the PC's SCSI HBA card and one of the VTrak's SCSI channels. To use the internal termination feature, attach the SCSI cable to the "In" connector. An external terminator is not required for this arrangement.

If you plan to connect multiple VTraks on a SCSI chain, connect the other side of the same SCSI channel on the first VTrak to a SCSI channel on the second VTrak.

See Chapters 4 or 5 of the *VTrak Product Manual* on the software CD for more information.

Step 5: Set Up Serial Cable Connections

The RS-232 Serial connection enables the Command Line Utility (CLU) on your PC to monitor and control VTrak.

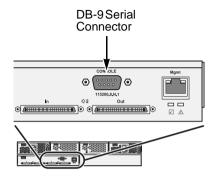
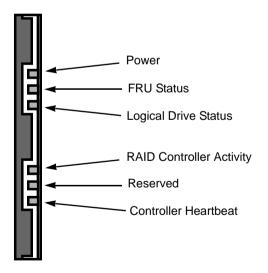
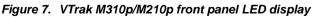


Figure 6. Serial connector for VTrak M310p/M210p

Step 6: Connect the Power

Plug the power cords and switch on both power supplies on. When the power is switched on, the LEDs on the front of the VTrak will light up.





When boot-up is finished and the VTrak is functioning normally:

- Controller Heartbeat LED blinks green seven times in three seconds, goes dark for six seconds, then repeats the blink pattern.
- Power, FRU and Logical Drive LEDs display green continuously.
- Fibre Channel/iSCSI/SCSI LEDs flash green if there is activity on that channel.

There are two LEDs on each Drive Carrier. They report the presence of power and a disk drive, and the current condition of the drive.

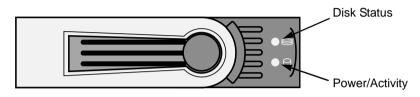


Figure 8. VTrak M310p/M210p disk carrier LEDs

After a few moments the Power/Activity should display Green.

If there is no disk drive in the carrier, the Disk Status LED and the Power/Activity LED will remain dark.

Step 7: Set IP Address with CLI or CLU

VTrak has a Command Line Interface (CLI) to manage all of its functions, including customization. A subset of the CLI is the Command Line Utility (CLU), a user-level interface that manages your VTrak via your PC's terminal emulation program, such as Microsoft HyperTerminal.

You will use the CLU to assign an IP address to the VTrak for WebPAM.

- 1. Change your terminal emulation program settings to match the following:
 - Bits per second: 115200
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow control: none
- 2. Start your PC's terminal VT100 or ANSI emulation program.
- 3. Press Enter once to launch the CLI.
- 4. At the Login prompt, type **administrator** and press Enter.
- 5. At the Password prompt, type **password** and press Enter.

At this point, you are in the CLI. You can continue using the CLI to make network settings or you can switch to the CLU.

- CLI (below)
- CLU (page 10)

CLI

1. Type the following string to set the Management Port IP address and other settings, then press Enter.

administrator@cli> net -a mod -t mgmt -s "primaryip=192.168.10.87, primaryipmask=255.255.255.0, gateway=192.168.10.3"

In the above example, the IP addresses and subnet mask are included as examples only. Your values will be different.

If you prefer to let your DHCP server assign the IP address, type the following string, then press Enter.

administrator@cli> net -a mod -t mgmt -s "dhcp=enable"

2. To verify the settings, type **net** and press Enter.

administrator@cli> net

==	====	=====	==========	===========	===========	====
Cl	d Port	t Type	IP	Mask	Gateway	Link
==	====	=====	===========	============	===========	====
1	1	Mgmt	192.168.10.87	255.255.255.0	192.168.10.3	Up

This completes the Management port setup. Go to "Step 8: VTrak Setup with Embedded WebPAM" on page 12.

To see the full set of CLI commands, at the admin@cli> prompt, type **help** and press Enter.

CLU

 At the admin@cli prompt, type **menu** and press Enter. The CLU main menu appears.

Promise M-Series ¦	Main Menu
	Quick Setup
	Subsystem Management Physical Drive Management Disk Array Management Logical Drive Management Network Management Fibre Channel Management Background Activity Event Viewer Additional Info and Management Buzzer
	Return to CLI
ARROWS,TAB:Navigat	e;ENTER:Select;CTRL-X:Return;CTRL-E:Help;CTRL-E:Help

2. With Quick Setup highlighted, press Enter.

The first Quick Setup screen enables you to make Date and Time settings.

System Date and Time

Promise M-Series ¦ Quick Sei	tup [Step 1 of 4]	: System Date & Tim	e
System Date (yyyy/mm/dd): 2	2005/03/31		
System Time (hh:mm:ss) : 1	16:27:41		
Save Settings and Continue Restore Settings	[CTRL-A] [CTRL-R]		
Skip to Next Step Return to Main Menu			

- 1. Press the arrow keys to highlight System Date.
- 2. Press the backspace key to erase the current date.
- 3. Type the new date.
- 4. Follow the same procedure to set the System Time.

5. Press Ctrl-A to save these settings and move to the Management Port configuration screen.

Management Port

Promise M-Series Quick Se	tup [Step 2 of 4]: Management Port
Port ID : 1 Port Status : Enabled Link Status : Up	IP Type : IPv4 MAC Address : 00:00:00:00:00 Max Supported Speed : 1000Mbps
DHCP	: Enabled
Save Settings and Continue	[CTR] _0]
Restore Settings Skip to Next Step Return to Previous Step	

By default, DHCP is enabled on VTrak (above). To set Management Port settings manually, or to view the current settings, you must disable DHCP.

To view the current Management Port settings:

- 1. Press the arrow keys to highlight DHCP.
- 2. Press the spacebar to toggle to Disabled.

Promise M-Series Quick Setup	[Step 2 of 4]: Management Port
Port ID : 1 Port Status : Enabled Link Status : Up	IP Type : IPv4 MAC Address : 00:00:00:00:00 Max Supported Speed : 1000Mbps
DHCP <mark>IP Address</mark> Subnet Mask Gateway IP Address	: Disabled : 192.168.10.112 : 255.255.255.0 : 192.168.10.1
DNS Server IP Address	: 192.168.1.3
Save Settings and Continue IC Restore Settings IC Skip to Next Step Return to Previous Step	

The current Management Port IP are displayed (above).

- 3. Record the information on this screen.
- 4. Press the spacebar to toggle DHCP back to Enable.

5. Press Ctrl-A to save these settings and move to the RAID configuration screen.

To make Management Port settings manually:

- 1. Press the arrow keys to highlight DHCP.
- 2. Press the spacebar to toggle to Disabled.
- 3. Press the arrow keys to highlight *IP Address*.
- 4. Press the backspace key to erase the current IP Address.
- 5. Type the new IP Address.
- 6. Follow the same procedure to specify the Subnet Mask, Gateway IP Address and DNS Server IP Address.

If you do not have a DNS server, skip the DNS Server IP address.

7. Press Ctrl-A to save these settings.

Exit the CLU

- 1. Highlight Skip the Step and Finish and press Enter.
- 2. Highlight Return to CLI and press Enter.

This completes the Management port setup. Go to "Step 8: VTrak Setup with Embedded WebPAM" on page 12.

Step 8: VTrak Setup with Embedded WebPAM



Note

You can also use the CLU to create disk arrays and logical drives. See Chapter 5 of the *VTrak Product Manual* on the software CD for more information.

Set up with WebPAM consists of the following:

- Log-in to WebPAM (below)
- Language Selection (page 16)
- Create a Disk Array (page 16)
- Additional Logical Drives (page 25)
- Log-out of WebPAM (page 25)
- Internet Connection using WebPAM (page 26)

Log-in to WebPAM

- 1. Launch your Browser.
- 2. In the Browser address field, type in the IP address of the VTrak Management port.

Use the IP address you obtained in Step 7 (see page 11). Note that the IP address shown below is only an example. The IP address you type into your browser will be different.

Regular Connection

- Enter the VTrak's Management Port IP address . . . 192.168.10.148

Together, your entry looks like this:

http://192.168.10.148

Secure Connection

- Enter the VTrak's Management Port IP address . . . 192.168.10.148 Together, your entry looks like this:

https://192.168.10.148



Note

Whether you select a regular or a secure connection, your login to WebPAM and your user password are always secure.



3. When the opening screen appears, type **administrator** in the User Name field and type **password** in the Password field.

The User Name and Password are case sensitive.

4. Click the **Login** button.

After sign-in, the WebPAM opening screen appears (next page). If there are any unconfigured physical drives in the enclosure, the Array Configuration menu will also appear (see page 16).



Important

As soon as possible, assign the Administrator's password. Make the change under User Management. Each user you create will have his/her own login ID and password.



Note

Make a Bookmark (Netscape Navigator) or set a Favorite (Internet Explorer) of the Login Screen so you can access it easily next time.

Promise Advanced Storage Manager - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	/ /
🚱 Back 🔹 📀 - 🖹 📓 🟠 🔎 Search 🛧 Favorites 🤣 🍛 🔜) b
Address 🕘 http://192.168.10.148/screen.php	🔽 🄁 Go 🛛 Links 🂙
PROMISE Language View Storage Network Contact Us I	.ogout Help
SOV. WILLS	^
Transie Web Ba Administrative Tools Administrative Tools Controllers Enclosures Disk Arrays Disk Arrays Disk Disk Drives Disk Disk Disk Disk Arrays Disk Disk Disk Disk Disk Disk Disk D	mise Advanced Storage Manager sed Advanced Storage Manager is oftware designed to simplify ISCSI ment. Specifically designed for ubsystems, WebPAM can ge or monitor Promise VTrak hy from a web browser from world.
Quick Link	
Settings for all logical drives in the subsystem Settings for all physical drives in the enclosur	
 Disk arrays information, creation and deletion 	
 Network settings for management port and is 	
□ iSCSI management	
Event Viewing	
 Background activities management 	
© 2004 Promise Technology Inc. All r Version: 0.03.0000.41, Build Dete:	
	🥑 Internet

The first time you log in to WebPAM, there will be no Users except for "administrator". There will be no disk arrays or logical drives.

Home (User: admin)	Logged-in User
Subsystems	Subsystem (IP address)
Administrative Tools	—— Administration Tools
🚽 User Management 🚽	User Management Network Management
SCSI Management	SCSI Management
Software Management	 Storage Services Software Management
Controllers	Controller Group Enclosure Group
Disk Arrays	—— Disk Array Group
🛃 Spare Drives 🗲 🗮 👪 Logical Drive Summary	Spare Drive Group Logical Drive Summary

Use the Tree to navigate to the various functions of WebPAM. Click on an item in the Tree to display it in the window.

Language Selection

WebPAM displays in English, German, French, Italian, Japanese, Chinese Traditional, Chinese Simple and Korean.

1. Click on Language in the WebPAM Header.

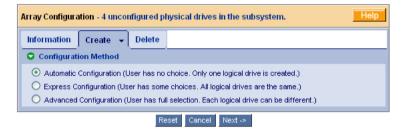
The language list appears in the Header.

2. Click on the language you prefer.

The WebPAM user interface will display in the selected language.

Create a Disk Array

Click on the Disk Arrays 😂 icon. The Array Configuration menu appears. Since this VTrak is newly activated, there are no disk arrays or logical drives yet.



There are three options: *Automatic, Express* and *Advanced*. Select one and click the **Next** button. Or select one from the dropdown menu on the Create tab.

Automatic

The Disk Array Automatic Creation option enables you to create a new disk array following a default set of parameters. One logical drive will be made automatically when you create the disk array.

The number of unconfigured physical drives available will determine the RAID level of the disk array and whether a spare drive is created.

Automatic Configuration Help								
Inform	nation Create	• •	Delete					
O Disk Array 1								
Number	of Physical Drives		4					
Physica	l Drive IDs		13 15 14 5					
Total Co	infigurable Capacity	(134.11GB					
Number	of Logical Drives		1					
C Lo	gical Drives							
#	RAID Level	Cap	acity	Stripe	Sector	Read Policy	Write Policy	
1	RAID5	100.	58GB	64KB	512Bytes	ReadAhead	WriteBack	
🗢 Sp	are Drives							
# Physical Drive IDs Spare Type								
There is no hot spare drive.								
Submit Cancel								

When you choose the Automatic option, the following parameters display:

- Disk Arrays The number of physical drives in the disk array, their ID numbers, configurable capacity and the number of logical drives to be created
- Logical Drives The ID number of the logical drive(s), their RAID level, capacity and stripe size
- Spare Drives The physical drive ID number of the dedicated hot spare assigned to this disk array

If you accept these parameters, click the **Submit** button. The new disk array appears in the Disk Array List on the Information tab.

If you do NOT accept these parameters, use the Express (below) or Advanced (page 19) option to create your disk array.

Express

The Disk Array Express Creation option enables you to choose the parameters for a new disk array by specifying the characteristics you want. With this method, you can create multiple logical drives at the same time you create your disk array. However, all of the logical drives will be the same size and RAID level.

If you prefer to specify the parameters directly, use the Advanced option to create your disk array.

If you are uncertain about choosing parameters for your disk array, use the Automatic option.

Express (Express Configuration Help								
Informa	tion Creat	e 🕶	Delete						
C Expre	ess Configura	tion							
Redundan	су								
Capacity			v						
Performan	ce		V						
Spare Driv	e								
Number of	Logical Drives		1				Max: 32		
Application	п Туре		File Serve	er		*			
Automatic	Update		Upo	date					
O Disk	Array 1								
	Physical Drives		4						
Physical D	rive IDs		13 15 14 5						
Total Confi	gurable Capacit	y	134.11GB						
Number of	Logical Drives		1						
🗢 Logia	al Drives								
#	RAID Level	Capa	city	Stripe		Sector	Read Policy	Write Policy	
1	RAIDO	134.1	1GB	64KB		512Bytes	ReadAhead	WriteBack	
Spare	e Drives			·					
#	Physica	Drive	IDs	5	ipare 1	уре			
There is no	hot spare drive	ə.							
				Submit	Can	cel			
				2					

Follow these steps to create a new disk array.

- 1. Check the boxes to select any one or a combination of:
 - Redundancy The array will remain available if a physical drive fails
 - Capacity The greatest possible amount of data capacity
 - Performance The highest possible read/write speed
 - Spare Drive A hot spare drive
- 2. In the Number of Logical Drives field, enter the number of logical drives you want to make from this disk array.

The maximum possible number of logical drives appears to the right of this field.

- 3. From the Application Type menu, select an application that best describes your intended use for this disk array:
 - File Server
 - Video Stream
 - Transaction Data
 - Transaction Log
 - Other
- 4. Click the **Update** button.

Or check the Automatic Update box and updates will occur automatically.

The following parameters display:

- Disk Arrays The number of physical drives in the disk array, their ID numbers, configurable capacity and the number of logical drives to be created
- Logical Drives The ID number of the logical drive(s), their RAID level, capacity and stripe size
- Spare Drives The physical drive ID number of the dedicated hot spare assigned to this disk array

If you accept these parameters, proceed to the next step.

If you do NOT accept these parameters, review and modify your selections in the previous steps.

5. When you are done, click the **Submit** button.

The new disk array appears in the Disk Array List on the Information tab.

Advanced

The Disk Array Advanced Creation option enables you to directly specify all parameters for a new disk array. If you select less than the total available capacity for the first logical drive, you can use the remaining space to create additional logical drives.

An explanation of the choices you will make while using the Advanced option to create your disk array is included in Chapter 7 of the *VTrak Product Manual* on the software CD.

If you are uncertain about choosing parameters for your disk array, use the Express or Automatic option to create your disk array.

Create Disk Array									
Information Create 👻	Delete								
Advanced Configuration ((Step 1 - Disk Array Creation)								
Disk Array Alias	DA0								
Media Patrol Enabled	✓								
PDM Enabled									
Physical Drives	Available Selected D5 : 33.53GB D14 : 36.32GB D15 : 73.57GB C								

To create a new disk array:

- 1. Enter a name for the disk array in the field provided.
- 2. Check the box to enable the following features.
 - Media Patrol A routine maintenance procedure that checks the magnetic media on each disk drive. Media Patrol is concerned with the condition of the media itself, not the data recorded on the media.
 - PDM Predictive Data Migration (PDM) scans the bad sector remapping table of the disk drives assigned to a logical drive. When the table fills to a specified percentage of its capacity, PDM triggers a migration of data from the suspect drive (the disk drive with the bad sectors) to a spare disk drive.
- Highlight physical drives you want in the disk array from the Available list and press the >> button to move them to the Selected list.

You can also double-click them to move them.

4. When you are done, click the **Next** button.

Create Disk Array						Help
Information Create	➡ Delete					
O Advanced Configura	tion (Step 2 -	Logical Drive	Creation)		
Alias	LD0					
RAID Level	RAIDO		1	1		
Capacity	50		GB	🖌 Maximum	: 108.96GB	
Stripe	64KB			1		
Sector	512Bytes			-		
Read Policy	ReadAhead			-		
Write Policy	WriteBack		1	-		
Update						
Capacity Usage						
Free Capacity						
Logical Drive Entered	Free Capac	ity				
New Logical Drives						
# Alias I	RAID Level	Capacity	Stripe	Sector	Read Policy	Write Policy
There is no new logical drive	e.					
		<- Back	Cancel			

On this screen you will specify your logical drives. Specify one logical drive at a time until the full capacity of the disk array is allocated.

- 5. Enter an Alias (name) for the first logical drive.
- 6. Choose a RAID level from the dropdown menu.

The choice of RAID levels depends on the number of physical drives you selected.

7. Specify a Capacity and the unit of measure (MB, GB, TB).

This value will be the data capacity of the logical drive. If you specify less than disk array's maximum capacity, the remainder is available for additional logical drives.

- Specify a Stripe size from the dropdown menu.
 8, 16, 32, 64, 128, 256, 512 KB and 1 MB are available. 64 KB is the default.
- Specify a Sector size from the dropdown menu.
 512 Bytes, 1, 2 and 4 KB are available. 512 Bytes is the default.

- 10. Choose a Read Cache policy:
 - ReadCache
 - ReadAhead
 - No Cache
- 11. Choose a Write Cache policy:
 - WriteThru
 - WriteBack
- 12. Click the Update button.

Create Disk Array Help									
Information Create - Delete									
C Advanced Configuration (Step 2 - Logical Drive Creation)									
Alias	LD1								
RAID Level	RAID0		~						
Capacity	50		GB	🖌 Maximum	58.96GB				
Stripe	64KB		~						
Sector	512Bytes	512Bytes							
Read Policy	ReadAhead	ReadAhead							
Write Policy	WriteBack								
Update Delete									
Capacity Usage									
1									
Logical Drive Entered Free Capacity									
New Logical Drives									
# Alias	RAID Level	Capacity	Stripe	Sector	Read Policy	Write Policy			
1 LD0	RAIDO	50GB	64KB	512Bytes	ReadAhead	WriteBack			

When you click the Update button, WebPAM sets up one logical drive and adds it to the New Logical Drive lists at the bottom of the window.

To create another logical drive, repeat steps 5 through 12, above.

Create Disk Array Help							
Info	rmation 🛛 (Create 👻 Del	ete				
O A	dvanced Co	nfiguration (Step	2 - Logical Driv	e Creation)			
Alias		LD1					
RAID L	evel	RAIDO		1			
Capacity		50	50		✓ Maximum	: 58.96GB	
Stripe		64KB	64KB		*		
Sector	r	512Bytes	512Bytes				
Read P	Policy	ReadAha	ReadAhead				
Write Policy		WriteBac	WriteBack				
Upd	late Delei	te					
O c	apacity Usag	le					
1 2							
Lo	igical Drive En	tered Free Ca	pacity				
O 11	ew Logical D	rives					
ŧ	Alias	RAID Leve	l Capacity	Stripe	Sector	Read Policy	Write Policy
	LDO	RAIDO	50GB	64KB	512Bytes	ReadAhead	WriteBack
277	LD1	RAIDO	50GB	64KB	512Bytes	ReadAhead	WriteBack

If you want to change a logical drive setting, click on the logical drive at the bottom of the window. The entry and the capacity usage are highlighted. Make your changes to the parameters and click the **Update** button.

Info	rmation	Create	→ Delet	e				
Advanced Configuration (Step 2 - Logical Drive Creation)								
Alias LD3								
RAID L	Level		RAIDO		~			
Capac	ity		8.96		GB 💽	🖌 Maximum	: 8.96GB	
Stripe			64KB	64KB				
Sector	r		512Bytes					
Read Policy F		ReadAhead		~				
Write Policy		WriteBack		~				
Update Delete								
o c	apacity Us	age						
1				2		3		
Logical Drive Entered Free Capacity								
O N	ew Logica	I Drives						
¥	Alias	R	AID Level	Capacity	Stripe	Sector	Read Policy	Write Policy
1	LDO	R	AID0	50GB	64KB	512Bytes	ReadAhead	WriteBack
2	LD1	R	AID0	25GB	64KB	512Bytes	ReadAhead	WriteBack
3	LD2	R	AIDO	25GB	64KB	512Bytes	ReadAhead	WriteBack

13. When you have finished specifying logical drives, click the Next button.

Info	rmation	Create 👻	Delete					
O A	dvanced C	onfiguration	(Step 3 -	Summary)				
Disk A	rray Alias			DA0				
Number of Physical Drives				3				
Physical Drive IDs				13 14 15				
Configurable Capacity			108.96GB	108.96GB				
Free Capacity			8.96GB	8.96GB				
Media Patrol			Enabled	Enabled				
PDM			Enabled					
New Logical Drives								
#	Alias	RAID	Level	Capacity	Stripe	Sector	Read Policy	Write Policy
1	LD0	RAID)	50GB	64KB	512Bytes	ReadAhead	WriteBack
2	LD1	RAID)	25GB	64KB	512Bytes	ReadAhead	WriteBack
3	LD2	RAID)	25GB	64KB	512Bytes	ReadAhead	WriteBack

The proposed disk array appears with the logical drive(s) you specified.

14. If you agree with the proposed disk array and logical drive(s), click the **Submit** button.

If you disagree, click the **Back** button and make changes as needed.

Additional Logical Drives

If you want to create additional logical drives and there is unused space on the

current disk array, click on the Disk Array 😸 icon and click on the Create LD tab. You will go to Disk Array Advanced Creation (see page 19).

If the current disk array is fully allocated, use additional physical drives to create

a new disk array. Click on the Disk Arrays 😂 icon, then select Automatic, Express or Advanced from the Create tab dropdown menu (see page 16).

Log-out of WebPAM

There are two ways to log out of WebPAM:

- Close your browser window
- Click Logout on the WebPAM banner (below)



Clicking **Logout** brings you back to the Login Screen. After logging out, you must enter your user name and password in order to log in again.

Internet Connection using WebPAM

The above instructions cover connections between VTrak and your company network. It is also possible to connect to a VTrak from the Internet.

Your MIS Administrator can tell you how to access your network from outside the firewall. Once you are logged onto the network, you can access the VTrak using its IP address.

While only a SCSI-capable PC can read and write data to the logical drives on the VTrak, other PCs can monitor the VTrak from virtually any location.

Frequently Asked Questions

What kind of disk drives can I use with VTrak?

VTrak supports 1.5 and 3.0 Gb/s Serial ATA disk drives.

Can I take the disk drives from my UltraTrak, put them into the VTrak and keep my disk array or logical drive intact?

Yes. UltraTraks, except for JB4000, and early VTrak subsystems used a proprietary method of disk metadata, stored in the reserve sector of each physical drive. VTrak M310p/M210p use the industry-standard DDF and have a metadata-to-DDF conversion feature. To use the conversion feature, you must restart the VTrak M310p/M210p after installing disk drives from an older system.

Note that if you move the disk drives from the VTrak M310p/M210p to the older subsystems, they will not recognize your disk array or logical drive.

Can I use my existing SCSI card with VTrak M310p/M210p?

Yes. For best performance results, use an Ultra320 SCSI card.

How can I tell when the VTrak has fully booted?

During the VTrak power-up process, the Power, FRU Status, and Logical Drive Status LEDs will light up. When the Logical Drive Status LEDs light up, the VTrak is fully booted. See pages 7 and 8.

Why does VTrak come with a Command Line Utility?

First, to assign your VTrak an IP address in order for the WebPAM management software to connect to it. Second, in the event of a network failure, you can still access the VTrak. Third, some users prefer the Command Line Utility.

My WebPAM connection was working OK. But later on, it timed out. What do I do now?

The network condition can time-out for several reasons. When an open connection has no action for a specific amount of time (the Administrator can change it), the connection times-out automatically for security reasons. When you attempt to use WebPAM, it returns to the login screen. Enter your user name and password and click Login, and WebPAM will establish a new connection.

I can access the VTrak over my company's intranet. But I can't access it from an outside Internet connection. How do I make the Internet connection work?

This condition is not related to VTrak, but is due to your firewall and network connection protocol. Contact your MIS Administrator.

With other Promise VTraks, I used the Server's IP address in WebPAM to connect with the RAID subsystem. Why is this VTrak M310p/M210p different?

VTrak M310p/M210p has the server software embedded. With the M310p/ M210p, you point your browser directly to the VTrak rather than a server. Also, with M310p/M210p you do not have to create a subsystem because the subsystem already exists.

Why can a RAID 1 logical drive on VTrak consist of only two disk drives?

On VTrak, RAID 1 logical drives work in mirrored physical drive pairs. You could create up to seven RAID 1 logical drives. Or you can create a single RAID 10 logical drive with data mirroring and up to 12 physical drives. If you have an odd number of drives but still want data mirroring, use RAID 1E.

See the *VTrak Product Manual* on the software CD for more information on the number of physical drives you can use for each RAID level.

Are logical drives on VTrak limited to 2.199 terabytes?

No. But verify that your operating system *supports* logical drives over 2.199 TB. Also, for the operating system to *recognize* the full capacity of logical drives over 2.199 TB, you must specify a sector size of 1 KB or larger when you create the logical drive. See Chapter 7 of the *VTrak Product Manual* on the software CD for more information.

I have two UltraTraks and use WebPAM to monitor them. Can I use my existing WebPAM setup to monitor the VTraks also?

No. Use the WebPAM embedded with the VTrak M310p/M210p.

How can I be sure everything is working OK on the VTrak?

Locally: The VTrak enclosure has LEDs on the front to monitor the status of power, field replaceable units (FRUs) and logical drives. When these are green, VTrak is functioning normally.

Remotely: Check the Tree Icons in WebPAM. If there are no yellow or red warning icons displayed, VTrak is functioning normally.

What happens if a logical drive goes critical?

On the front of VTrak, the logical drive LED turns amber and an audible alarm sounds. This condition is described in Chapter 4 of the *VTrak Product Manual* on the software CD.

Can VTrak run using just one power supply?

Yes, it is possible to run VTrak on a single power supply. There are two power supplies so that VTrak will continue running if one of the power supply fails. But deliberately leaving one power supply off negates this advantage.

In addition, leaving one power supply off reduces air flow through the VTrak enclosure and can contribute to overheating. Always switch on both power supplies.

Contact Technical Support

Promise Technical Support provides several support options for Promise users to access information and updates. We encourage you to use one of our electronic services, which provide product information updates for the most efficient service and support.

If you decide to contact us, please have the following information available:

- Product model and serial number
- BIOS, firmware and driver version numbers
- A description of the problem / situation
- System configuration information, including: motherboard and CPU type, hard drive model(s), SATA/ATA/ATAPI drives & devices, and other controllers.

Technical Support Services

Promise Online™ Web Site	http://www.promise.com/support (technical documents, drivers, utilities, etc.)
Promise Online [™] eSupport	https://support.promise.com/support (online request form)

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Phone Support	(408) 228-1400 option 4
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Caution

- There is a risk of explosion if the battery is replaced by the incorrect type.
- Dispose of used batteries according to the instructions that accompany the battery.

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