

# VSM5

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## DOP Customer Screens Guide

E28144-01



Revision 01

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# About This Guide

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This guide provides information about the Detached Operator Panel (DOP) screens available to customers.

## ? Notational and Typographic Conventions

The following notational and typographic conventions are used throughout this document to highlight key words, phrases, and actions.

Item	Example(s)	Description of Convention
Publications; course titles	<i>Installation and Service Guide</i>	Italic font
MS Windows or GUI screen titles	<u>Ethernet Setup</u> screen	Italic underlined font
Computer keyboard input keys	Press the <u>[Enter]</u> key.	Monospaced underlined font in square brackets [ ]
User-keyed non-variable inputs; system-generated outputs	<b>show systemstate</b>	Monospaced bold font
User-keyed variable inputs	<b>Name = &lt;system name&gt;</b>	Monospaced italic bold font in angled brackets < >
E-mail and IP addresses; URLs; file and folder names; active fields and icons in GUI windows	<u>glsfs@sun.com</u> ; click <u>Submit</u> ; <u>www.support.storagetek.com</u> ; <u>cli.exe</u> file; <u>129.80.64</u> subnet	Monospaced underlined font
Emphasized text	Do <u>not</u> touch exposed wiring...	Underlined font
Physical VTSS labels for FRUs, LED indicators, ports, or switches	<b>POWER ON</b> indicator; <b>ETH0</b> port; <b>POWER ENABLE</b> switch	Bold caps font
Hypertext link (in PDF file) to a figure, table, procedure step, or section heading	See <a href="#">Figure 2-1</a> on page 2-27; Repeat <a href="#">Step 3</a> ; See “ <a href="#">Assigning Passwords</a> ” on page 4-11.	Blue font (prints black in black and white photocopies)
Text references to numbered callouts in accompanying artwork	Pull the D-ring handle <b>[3]</b> .	Bold font in bold square brackets [ ]



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# Using the Detached Operator Panel

1

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Two DOP types can be used with a VTSS: detached (at the same physical location as the VTSS) and remote (at a different physical location than the VTSS).

A remote simulated operator panel display allows remote support personnel at the Sun Remote Resolution Center (RRC) to diagnose and service problems. The remote panel connection consists of a PC paired with proprietary software and linked to the VTSS by a modem or Ethernet connection to emulate a detached operator panel display. Functionality of the remote operator panel is less than for a local detached operator panel (e.g., a remote panel cannot enable VTSS power).

## Operator Panel Mastership

One VTSS operator panel (either local or remote) must be established as 'master' to perform tasks from that panel. To establish mastership, enter a valid password at the [Main Menu / Login](#) screen, [Figure 2-2](#) on page 2-5. Once mastership is established, the functionality of that panel is enabled, and the functionality of any second, or 'slave' panel (if connected) becomes disabled, and the slave panel becomes view-only.

A slave panel can display the content of a master panel but cannot perform any functions while the master is in use. To forfeit mastership, click [Logout](#) on any screen. Mastership expires automatically if no panel activity is detected for three minutes.

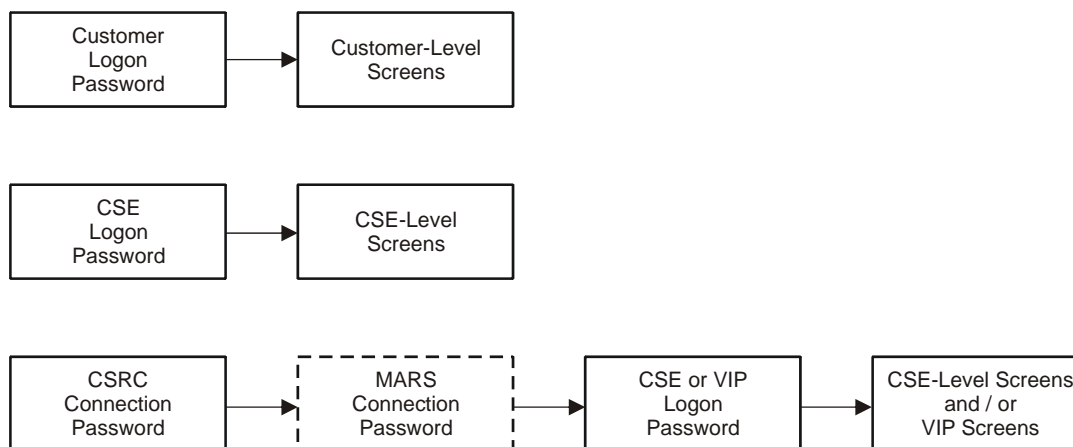
## Operator Panel Help

Click [Help](#) on any screen to access screen-specific help information.

# Operator Panel Access Passwords

VTSS control and maintenance functions are protected from unauthorized access by the passwords described below. [Figure 1-1](#) shows access permissions by password type. All passwords are controlled by the VSM operator or data center manager. If a user enters an incorrect password, a screen prompts the user to enter another. If an incorrect password is entered five times, the display reverts to the Main Menu / Login screen, [Figure 1-2](#) on page 1-3, and a SIM notifies the host system of the problem.

**Figure 1-1. Required Passwords for Operator Panel Screen Access**



A504\_034

## Customer Logon Password

The 'Customer Logon' password:

- Must be comprised of eight alphanumeric characters, starting with 'A,' followed by seven random alphanumeric characters; the default (preset) is A0022222.
- Can be modified at the Access Control screen, [Figure 1-20](#) on page 1-24.
- Must be keyed in from a local detached operator panel at the Main Menu / Login screen, [Figure 1-2](#) on page 1-3.
- Provides access to all customer-level screens; see "[Customer-Level Screens](#)" on page 1-8.

# DOP Customer-Level Screens

## 2

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This chapter shows representative sample images of VTSS DOP customer-level screens.

## ? VSM Operator Panel Connection Screen

To access the *VSM Operator Panel Connection* screen below, click the *Internet Explorer* icon on your desktop, key in the URL *localhost* in the *Address* window, then press [*Enter*].

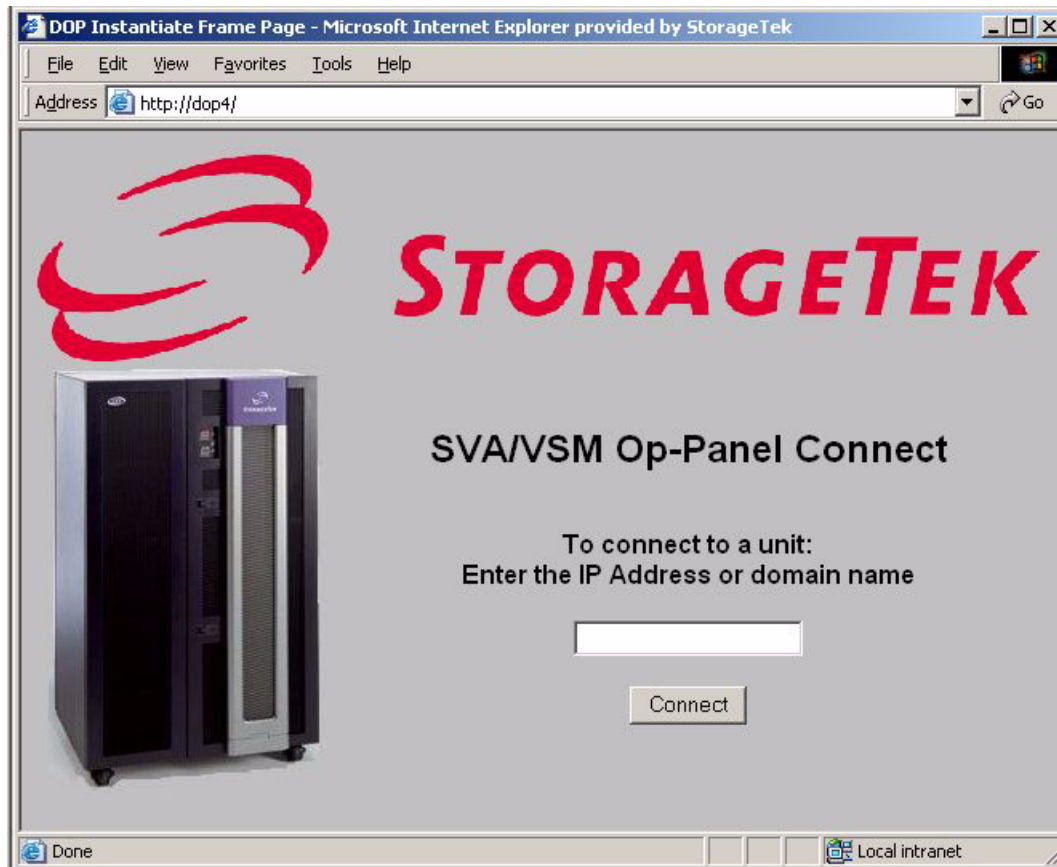
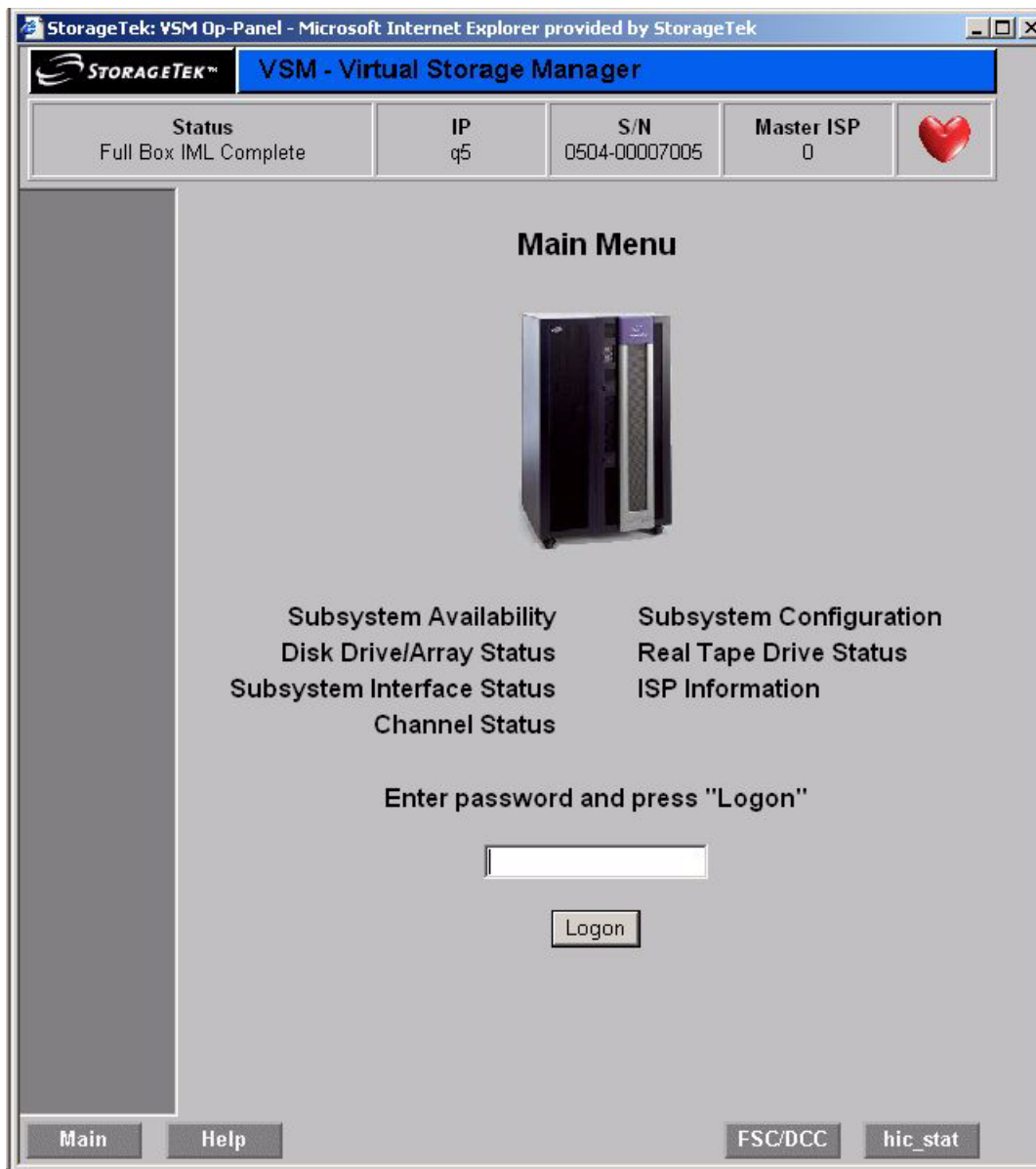


Figure 2-1. VSM Operator Panel Connection Screen

## ? Main Menu / Login Screen

To access the *Main Menu / Login* screen below, key in the VTSS IP address<sup>1</sup> at the *VSM Operator Panel Connection* screen, [Figure 2-1](#) on page 2-4, then click *Connect*.



**Figure 2-2. Main Menu / Login Screen**

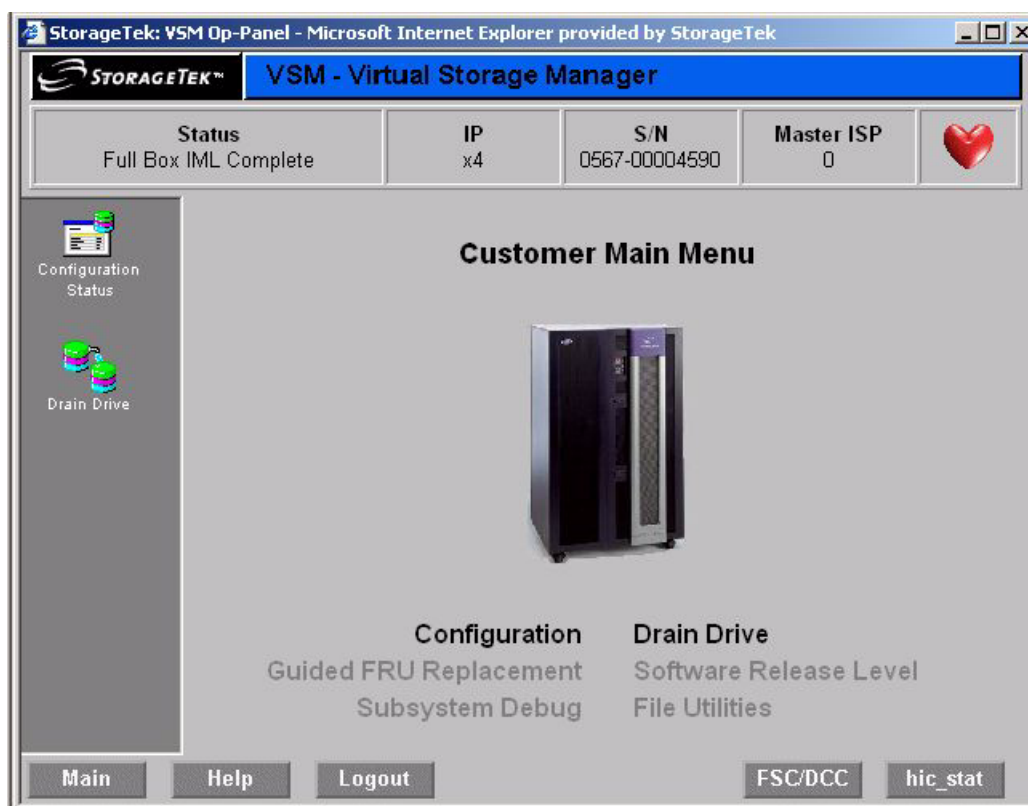
1. If this is new installation and the VTSS IP address is not known, the 'Force IP Address' jumper on the ISP3a card must be installed to reset the VTSS IP address to its default setting (129.80.64.242 for VTSSs running D02.05 or older microcode and 10.80.140.140 for VTSSs running D02.06 or newer microcode). The VTSS IP address can be changed again as needed at the *Ethernet Setup* screen, [Figure 2-11](#) on page 2-15.

## ? Customer Main Menu Screen

**Note:** Customers cannot access grayed-out screens and functionality shown on the Customer Main Menu screen, [Figure 2-3](#) below, which are available only through CSE-level screens.

To access the Customer Main Menu screen, key in a valid customer password (A\*\*\*\*\*; default A0022222) in the active window of the Main Menu / Login screen, [Figure 2-2](#) on page 2-5, then click Login. At the screen below, click either of the two black (not gray) text fields shown onscreen to display the following linked subscreens that enable you to complete additional tasks:

- “[Configuration / Status Menu Screen](#)” on page 2-7
- “” on page 2-8.



**Figure 2-3. Customer Main Menu Screen**



## ? Configuration / Status Menu Screen

To access the customer-level *Configuration / Status Menu* screen, click the active *Configuration* text field on the *Customer Main Menu* screen, [Figure 2-3](#) on page 2-6.



**Figure 2-4. Configuration / Status Menu Screen**

To view the 11 customer-level Subsystem Configuration and Status screens, see these headings:

- “Subsystem Availability Screen” on page 2-9
- “Subsystem Configuration and Status Screen” on page 2-10
- “Disk Drive / Array Status Screen (1 of 2)” on page 2-12
- “Subsystem Interface Status Screen” on page 2-14
- “Ethernet Setup Screen” on page 2-15
- “Channel Configuration Status Screen” on page 2-20
- “Real Tape Drive Status Screen” on page 2-22
- “ISP Information Screen” on page 2-23
- “DAC State Screen” on page 2-24
- “FRU Status Screen (1 of 7)” on page 2-25.

## Subsystem Availability Screen

To access the customer-level *Subsystem Availability* screen, click the *Subsystem Availability* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7.

**StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek**

**STORAGETEK™ VSM - Virtual Storage Manager**

**Status:** Full Box IML Complete    **IP:** q5    **S/N:** 0504-00007005    **Master ISP:** 0

**Configuration Status**  
**Guided FRU Replacement**  
**Software Release Level**  
**File Utilities**  
**Drain Drive**  
**Subsystem Debug**

### Subsystem Availability

Availability	Paths
Data Transfer Path 0,1 : 100%	Data Transfer : 16 of 16
Data Transfer Path 2,3 : 100%	Array Links : 16 of 16
Data Transfer Path 4,5 : 75%	Host Path Groups : 28 of 32
Data Transfer Path 6,7 : 75%	
Control Regions : 100%	
Disk Array Units : 96%	
IFES Availability : 100%	

Fans	DC Power Supplies
Logic Card Cage : 4 of 4	Logic Card Cage : 4 of 4
Disk Array : 8 of 8	Array Drive Tray : 8 of 8
Logic Power : 4 of 4	ISP Drive : 2 of 2
PDU : 1 of 2	

Disk Drives	Miscellaneous
Array Drives : 62 of 64	Battery Backup : 2 of 2
ISP Drives : 2 of 2	Support Facility : 2 of 2
	Active CFES : 3

**Main**    **Help**    **Logout**    **FSC/DCC**    **hic\_stat**

**Figure 2-5. Subsystem Availability Screen**

## Subsystem Configuration and Status Screen

To access the Customer-level *Subsystem Configuration and Status* screen, click the *Subsystem Configuration* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7. At the *Subsystem Configuration and Status* screen below, click the active fields under the various headings shown onscreen to display these linked subscreens, which enable you to complete additional tasks:

- “[Set VSM Subsystem Time Screen](#)” on page 2-11

**StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek**

**VSM - Virtual Storage Manager**

Status: Full Box IML Complete | IP: q5 | S/N: 0504-00007005 | Master ISP: 0

### Subsystem Configuration and Status

General Information		Firmware	
Model:	VSM4	Release Level:	CIPTEST
Site Name:		ISP Version:	vsb060319
Site Location:		IUP Version:	jeff_vfb.iup
Subsystem Name:	<a href="#">QUASAR5</a>	CIP Version:	41692.cip
Customer Name:		FIPVT Version:	vnb060302
Date:	2006/03/22	Code Mismatch?:	N
Time:	16:16:57		

Configuration and Status			
Config Arrays:	4	Physical Capacity:	<a href="#">32767GB</a>
Data Array Cap:	7475.18	Collected Free Cap:	99.89%
No of VTDS:	256	Uncollected Free Cap:	0.01%
Installed Cache:	8192	Net Load:	0.10%
Config Cache:	<a href="#">8192</a>		

Options					
Maintenance:	<input checked="" type="checkbox"/>	Cluster VTSS:	<input checked="" type="checkbox"/>	Cache:	<input checked="" type="checkbox"/>
32 CIP Port:	<input checked="" type="checkbox"/>	PCap:	<input checked="" type="checkbox"/>		

Navigation: Main | Help | Logout | FSC/DCC | hic\_stat

**Figure 2-6. Subsystem Configuration and Status Screen**

## Set VSM Subsystem Time Screen

To access the *Set VSM Subsystem Time* screen, click the date or time in the active field next to the *Date* or *Time* heading on the *Subsystem Configuration and Status* screen [Figure 2-6](#) on page 2-10.

When you set the VTSS local date and time using the pull-down lists and click *Continue*, a subscreen displays with the message **Time was successfully set**. Click *Reset* to reset the date and time to the default settings (i.e., the date and time at the Sun Remote Resolution Center server). Click *Cancel* to undo changed settings and return to the *Subsystem Configuration and Status* screen.

StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek

**STORAGETEK™ VSM - Virtual Storage Manager**

<b>Status</b> Full Box IML Complete	<b>IP</b> q5	<b>S/N</b> 0504-00007005	<b>Master ISP</b> 0	
--	-----------------	-----------------------------	------------------------	--

**Set The VSM Subsystem Time**

**Select Date**

Month	Day	Year
March	22	2006

**Select Time**

Hour	Minute	Second
16	45	20

**Main** **Help** **Logout** **FSC/DCC** **hic\_stat**

**Figure 2-7. Set VSM Subsystem Time Screen**

## Disk Drive / Array Status Screen (1 of 2)

To access the customer-level *Disk Drive / Array Status* screen, click the *Disk Drive / Array Status* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7.

When you click *Form Array* at the screen below (the button displays only if at least 16 drives are available to create an array), the VTSS support facility starts creating an array and displays a subscreen with the message *Array Formation has begun*.

**StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek**

**STORAGETEK™ VSM - Virtual Storage Manager**

Status: Full Box IML Complete | IP: q5 | S/N: 0504-00007005 | Master ISP: 0

**Disk Drive/Array Status**

DA7.0 P.A. 146G Ary3	DA7.1 P.A. 146G Ary3	DA7.2 U.B. NA Unav	DA7.3 P.A. 146G Ary3	DA7.4 P.A. 146G Ary3	DA7.5 P.A. 146G Ary3	DA7.6 P.A. 146G Ary3	DA7.7 P.A. 146G Ary3
DA6.0 P.A. 146G Ary3	DA6.1 P.A. 146G Ary3	DA6.2 P.A. 146G Ary3	DA6.3 P.A. 146G Ary3	DA6.4 P.A. 146G Ary3	DA6.5 P.A. 146G Ary3	DA6.6 P.A. 146G Ary3	DA6.7 P.A. 146G Ary3
DA5.0 P.A. 146G Ary2	DA5.1 P.A. 146G Ary2	DA5.2 P.A. 146G Ary2	DA5.3 P.A. 146G Ary2	DA5.4 P.A. 146G Ary2	DA5.5 S.A. 146G Spare	DA5.6 P.A. 146G Ary2	DA5.7 P.A. 146G Ary2
DA4.0 P.A. 146G Ary2	DA4.1 P.A. 146G Ary2	DA4.2 P.A. 146G Ary2	DA4.3 P.A. 146G Ary2	DA4.4 P.A. 146G Ary2	DA4.5 P.A. 146G Ary2	DA4.6 P.A. 146G Ary2	DA4.7 P.A. 146G Ary2
DA3.0 P.A. 146G Ary2	DA3.1 P.A. 146G Ary2	DA3.2 P.A. 146G Ary2	DA3.3 P.A. 146G Ary2	DA3.4 P.A. 146G Ary2	DA3.5 P.A. 146G Ary2	DA3.6 P.A. 146G Ary2	DA3.7 P.A. 146G Ary2

Main Help Logout FSC/DCC hic\_stat


Figure 2-8. Disk Drive / Array Status Screen (1 of 2)



## Disk Drive / Array Status Screen (2 of 2)

StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek













**STORAGE TEK™ VSM - Virtual Storage Manager**

Status: Full Box IML Complete    IP: q5    S/N: 0504-00007005    Master ISP: 0    

Configuration Status  
Guided FRU Replacement  
Software Release Level  
File Utilities  
Drain Drive  
Subsystem Debug

DA3.0 P.A 146G Ary1	DA3.1 P.A 146G Ary1	DA3.2 P.A 146G Ary1	DA3.3 P.A 146G Ary1	DA3.4 P.A 146G Ary1	DA3.5 P.A 146G Ary1	DA3.6 P.A 146G Ary1	DA3.7 P.A 146G Ary1
DA2.0 U.B NA Unav	DA2.1 P.A 146G Ary1	DA2.2 P.A 146G Ary1	DA2.3 P.A 146G Ary1	DA2.4 P.A 146G Ary1	DA2.5 P.A 146G Ary1	DA2.6 P.A 146G Ary1	DA2.7 P.A 146G Ary1
DA1.0 P.A 146G Ary0	DA1.1 P.A 146G Ary0	DA1.2 P.A 146G Ary0	DA1.3 P.A 146G Ary0	DA1.4 P.A 146G Ary0	DA1.5 P.A 146G Ary0	DA1.6 P.A 146G Ary0	DA1.7 S.A 146G Spare
DA0.0 P.A 146G Ary0	DA0.1 P.A 146G Ary0	DA0.2 P.A 146G Ary0	DA0.3 P.A 146G Ary0	DA0.4 P.A 146G Ary0	DA0.5 P.A 146G Ary0	DA0.6 P.A 146G Ary0	DA0.7 P.A 146G Ary0

**Color Code Key**

Array 0: 	Unavailable: 	Out Of Spec: 
Array 1: 	MAT: 	Attention: 
Array 2: 	Spare: 	Drain: 
Array 3: 	Invalid Array No: 	Drain To: 

Main    Help    Logout    FSC/DCC    hic\_stat

Figure 2-9. Disk Drive / Array Status Screen (2 of 2)

## Subsystem Interface Status Screen

To access the Subsystem Interface Status screen, click the Subsystem Interface Status text field on the Configuration / Status Menu screen, [Figure 2-4](#) on page 2-7.

The screenshot shows the 'Subsystem Interface Status' screen within the 'VSM - Virtual Storage Manager' application. The interface includes a top navigation bar with the StorageTek logo and a title bar indicating it's running in Microsoft Internet Explorer. Below the navigation bar, there's a status section with fields for Status (Full Box IML Complete), IP (VTSSo), S/N (0567-00001003), and Master ISP (0), along with a heart icon. The main content area is titled 'Subsystem Interface Status' and displays the 'World Wide Node Name: 50:01:04:F0:00:82:15:70'. It contains two tables of VCF (Virtual Control Field) data. The first table lists VCF00 through VCF03, and the second table lists VCF10 through VCF13. Each table includes columns for Card Type, WW Port Name \*, Port 0, and Port 1. A note at the bottom states: '\* World Wide Port Name Format is: 50:01:04:F0:XX:XX:XX:XX'. The left sidebar contains icons for Configuration Status, Guided FRU Replacement, Software Release Level, File Utilities, Drain Drive, and Subsystem Debug. The bottom of the screen features buttons for Main, Help, Logout, FSC/DCC, and hic\_stat.

	VCF00	VCF01	VCF02	VCF03
Card Type	VCF	VCF	VCF	VCF
WW Port Name *				
Port 0	00:82:15:80	00:82:15:82	00:82:15:84	00:82:15:86
Port 1	00:82:15:81	00:82:15:83	00:82:15:85	00:82:15:87

	VCF10	VCF11	VCF12	VCF13
Card Type	VCF	VCF	VCF	VCF
WW Port Name *				
Port 0	00:82:15:88	00:82:15:8A	00:82:15:8C	00:82:15:8E
Port 1	00:82:15:89	00:82:15:8B	00:82:15:8D	00:82:15:8F

\* World Wide Port Name Format is: 50:01:04:F0:XX:XX:XX:XX

**Figure 2-10. Subsystem Interface Status Screen**



## Ethernet Setup Screen

To access the *Ethernet Setup* screen, click the *Ethernet Setup* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7. Click the appropriate blue hotlink to display these linked subscreens, which enable you to set various subsystem addresses:

- “[Enter \(VTSS\) IP Address Screen](#)” on page 2-16
- “[Enter Subnet Address Screen](#)” on page 2-17
- “[Enter Gateway Address Screen](#)” on page 2-18
- “[Enter \(Remote Maintenance\) Server Address Screen](#)” on page 2-19.

The screenshot shows the 'Ethernet Setup' screen within the 'VSM - Virtual Storage Manager' application. The interface includes a top status bar with fields for Status, IP, S/N, and Master ISP, along with a heart icon. A left sidebar contains icons for Configuration Status, Guided FRU Replacement, Software Release Level, File Utilities, Drain Drive, and Subsystem Debug. The main area displays a table with Ethernet configuration details.

Address Type	Active	Requested
IP	129.80.70.95	<a href="#">129.80.70.95</a>
Subnet	255.255.254.0	<a href="#">255.255.254.0</a>
Gateway	129.80.71.254	<a href="#">129.80.71.254</a>
Maintenance Server	<a href="#">129.80.55.242</a>	
MAC	0:10:4F:0:50:F9	

(If Active is not the same as Requested, requires an ISP IML to be active)

At the bottom, there are buttons for Main, Help, Logout, FSC/DCC, and hic\_stat.

**Figure 2-11. Ethernet Setup Screen**

## Enter (VTSS) IP Address Screen

To access the *Enter (VTSS) IP Address* screen, click the blue IP address hotlink under the *Requested* heading on the *Ethernet Setup* screen, [Figure 2-11](#) on page 2-15.

When you key in a valid VTSS IP address<sup>1</sup> and click *Submit*, a subscreen displays with the message *Set IP Address Successful*. Click *Return* to delete keyed text and return to the *Ethernet Setup* screen.

StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek

**STORAGETEK™ VSM - Virtual Storage Manager**

<b>Status</b> Full Box IML Complete	<b>IP</b> q5	<b>S/N</b> 0504-00007005	<b>Master ISP</b> 0	
--	-----------------	-----------------------------	------------------------	--

**Please Enter the IP Address**

129 80 70 95

Submit

Return

Main Help Logout FSC/DCC hic\_stat

**Figure 2-12. Enter (VTSS) IP Address Screen**

1. The default IP address for the VTSS is 129.80.64.242 for VTSSs running D02.05 or older microcode and 10.80.140.140 for VTSSs running D02.06 or newer microcode.

## Enter Subnet Address Screen

To access the *Enter Subnet Address* screen, click the blue subnet IP address hotlink under the *Requested* heading on the *Ethernet Setup* screen, [Figure 2-11](#) on page 2-15.

When you key in a valid subnet IP address and click *Submit*, a subscreen displays with the message *Set Subnet Address Successful*. Click *Return* to delete keyed text and return to the *Ethernet Setup* screen.

The screenshot shows a web browser window titled "StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek". The main header is "VSM - Virtual Storage Manager". Below the header is a status bar with the following information:

Status	IP	S/N	Master ISP
Full Box IML Complete	q5	0504-00007005	0

To the right of the status bar is a red heart icon. The main content area is titled "Please Enter the Subnet Address". It contains four input fields for the subnet address, with the values "255", "255", "254", and "0" entered. Below the input fields are two buttons: "Submit" and "Return". On the left side of the screen is a sidebar with the following icons and labels:

- Configuration Status
- Guided FRU Replacement
- Software Release Level
- File Utilities
- Drain Drive
- Subsystem Debug

At the bottom of the screen are four buttons: "Main", "Help", "Logout", and "FSC/DCC". The "hic\_stat" button is also visible on the right side of the bottom bar.

**Figure 2-13. Enter Subnet Address Screen**

## Enter Gateway Address Screen

To access the Enter Gateway Address screen, click the blue gateway IP address hotlink under the Requested heading on the Ethernet Setup screen, [Figure 2-11](#) on page 2-15.

When you key in a valid gateway IP address and click Submit, a subscreen displays with the message **Set Gateway Address Successful**. Click Return to delete keyed text and return to the Ethernet Setup screen.

The screenshot shows the StorageTek VSM Op-Panel interface in a Microsoft Internet Explorer browser window. The title bar reads "StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek". The main header is "VSM - Virtual Storage Manager".

At the top, there is a status bar with the following information:

Status	IP	S/N	Master ISP
Full Box IML Complete	q5	0504-00007005	0

Below the status bar, there is a sidebar on the left with the following navigation options:

- Configuration Status
- Guided FRU Replacement
- Software Release Level
- File Utilities
- Drain Drive
- Subsystem Debug

The main area of the screen displays the text "Please Enter the Gateway Address". Below this text, there are four input fields for the IP address, each containing a digit: 129, 80, 71, and 254. Below the input fields, there are two buttons: "Submit" and "Return".

At the bottom of the screen, there is a footer bar with the following buttons:

- Main
- Help
- Logout
- FSC/DCC
- hic\_stat

**Figure 2-14. Enter Gateway Address Screen**

## Enter (Remote Maintenance) Server Address Screen

To access the *Enter (Remote Maintenance) Server Address* screen, click the blue maintenance server IP address hotlink under the *Requested* heading on the *Ethernet Setup* screen, [Figure 2-11](#) on page 2-15.

When you key in a valid maintenance server address and click *Submit*, a subscreen displays with the message *Set Server Address Successful*. Click *Return* to delete keyed text and return to the *Ethernet Setup* screen.

The screenshot shows a web browser window titled "StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek". The main header is "VSM - Virtual Storage Manager". Below the header, there is a status bar with the following information:

Status	IP	S/N	Master ISP
Full Box IML Complete	q5	0504-00007005	0

To the right of the status bar is a red heart icon. The main content area is titled "Please Enter the Server Address". It contains four input fields for the IP address: 129, 80, 55, and 242. Below these fields are two buttons: "Submit" and "Return". On the left side, there is a sidebar with the following navigation options:


- Configuration Status
- Guided FRU Replacement
- Software Release Level
- File Utilities
- Drain Drive
- Subsystem Debug

At the bottom of the screen, there are four buttons: "Main", "Help", "Logout", and "FSC/DCC". The "hic\_stat" button is also visible on the right side of the bottom bar.

**Figure 2-15. Enter (Remote Maintenance) Server Address Screen**

## Channel Configuration Status Screen

To access the Channel Configuration Status screen, click the active Channel Status text field on the Configuration / Status Menu screen, [Figure 2-4](#) on page 2-7.



**VSM - Virtual Storage Manager**

**Status**  
Full Box IML Complete

**IP**  
129.80.70.9

**S/N**  
0567-00200047

**Master ISP**  
0



**Exit**  
Exit

**Channel Configuration Status**

Card	Name	Cl	Lk	Gr	En	Type	RTD	Port	ID
VCF00		0	0	A	Y	HOST			
		0	0	B	N				
		0	1	C	Y	HOST			
		0	1	D	N				
VCF01		0	0	E	Y	NEARLINK	00	22	
							FF	FF	
							FF	FF	
							FF	FF	
VCF02		0	0	F	N				
		0	1	G	Y	HOST			
		0	1	H	N				
		0	0	I	Y	HOST			
VCF03		0	0	J	N				
		0	1	K	Y	HOST			
		0	1	L	N				
		0	0	M	Y	HOST			
VCF10		0	0	N	N				
		0	1	O	Y	HOST			
		0	1	P	N				
		1	0	A	Y	HOST			
VCF11		1	0	B	N				
		1	1	C	Y	HOST			
		1	1	D	N				
		1	0	E	Y	NEARLINK	61	20	
VCF12							FF	FF	
							FF	FF	
							FF	FF	
		1	0	F	N				
VCF13		1	1	G	Y	HOST			
		1	1	H	N				
		1	0	I	Y	HOST			
		1	0	J	N				
VCF14		1	1	K	Y	HOST			
		1	1	L	N				
		1	0	M	Y	NEARLINK	00	00	
							FF	FF	
VCF15							FF	FF	
							FF	FF	
							FF	FF	
		1	0	N	N				
VCF16		1	1	O	Y	HOST			
		1	1	P	N				
		1	1	P	N				
		1	1	P	N				

Main

Help

FSC/DCC

hic\_stat

Figure 2-16. Channel Configuration Status Screen

## Channel Configuration and RTD Path Validation Screen

To access the *Channel Configuration and RTD Path Validation* screen, click on a VCF card shown on the *Channel Configuration Status* screen, [Figure 2-16](#) on page 2-20.

To set the configuration of a VCF card channel for host or Nearlink use, select the channel (0 or 1) and type from the pull-down lists, then click Continue to display a subscreen with the message **Success**, indicating the configuration change completed successfully. Click Cancel to undo changed settings and return to the *Channel Configuration Status* screen.

To validate a RTD path, select a validation path (0 or 1) from the pull-down list, then click Validate RTD Path to display a subscreen with the message **Channel path *n* was successfully validated**, indicating the selected RTD path is operational.

The screenshot displays the StorageTek VSM Op-Panel interface within a Microsoft Internet Explorer browser. The title bar reads "StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek". The main header is "VSM - Virtual Storage Manager".

At the top, a status bar shows:

Status	IP	S/N	Master ISP
Full Box IML Complete	129.80.70.9	0567-00200047	0

Below the status bar is a sidebar with icons for various functions: Exit, Configuration Status, Guided FRU Replacement, Software Release Level, File Utilities, Drain Drive, and Subsystem Debug.

The main content area is divided into two sections:

### Channel Configuration

Card: VCF01  
Channel: 0  
Name:   
Cluster: 0  
Link: 0  
Group: E  
Enable: true  
Type: NEARLINK  
RTD0 DD: 00 AA: 22  
RTD1 DD: FF AA: FF  
RTD2 DD: FF AA: FF  
RTD3 DD: FF AA: FF

Buttons: Continue, Cancel

### RTD Path Validation

Validation Path: 0

Button: Validate

At the bottom, there are navigation buttons: Main, Help, Logout, FSC/DCC, and hic\_stat.

**Figure 2-17. Channel Configuration and RTD Path Validation Screen**



## Real Tape Drive Status Screen

To access the *Real Tape Drive Status* screen, click the active *Real Tape Drive Status* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7. To validate a real tape drive (RTD), click the active button in the *Valid* column for the RTD. The VTSS support facility validates the RTD, then displays a subscreen with the message **RTD *n* was successfully validated**. See *hic\_stat* for details.

The screenshot shows the StorageTek VSM Op-Panel interface. At the top, there's a status bar with the following information:

Status	IP	S/N	Master ISP
Full Box IML Complete	vtss0	0567-00001003	1

Below the status bar is a navigation menu on the left with icons for:

- Configuration Status
- Guided FRU Replacement
- Software Release Level
- File Utilities
- Drain Drive
- Subsystem Debug

The main area displays the **Real Tape Drive Status** table:

ID	Valid	Uncfg	Name	CI	Card	Link	Grp	Status	Type
0	<input type="checkbox"/>	NA	RTD0	0	VCF00	0	A	ONLINE	9840
1	<input type="checkbox"/>	NA	RTD1	0	VCF02	0	I	ONLINE	9840
2	<input type="checkbox"/>	NA	RTD2	1	VCF10	0	A	ONLINE	9840
3	<input type="checkbox"/>	NA	RTD3	1	VCF12	0	I	ONLINE	9840
4	<input type="checkbox"/>	NA	RTD4	0	VCF01	0	E	ONLINE	TITANIUM
6	<input type="checkbox"/>	NA	RTD6	1	VCF11	0	E	ONLINE	TITANIUM

At the bottom of the interface, there are buttons for **Main**, **Help**, **Logout**, **FSC/DCC**, and **hic\_stat**.

**Figure 2-18. Real Tape Drive Status Screen**



## ISP Information Screen

To access the *ISP Information* screen, click the active *ISP Information* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7.

The screenshot shows the StorageTek VSM Op-Panel interface in a Microsoft Internet Explorer browser window. The title bar reads "StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek". The main header is "VSM - Virtual Storage Manager".

At the top, there is a status bar with the following information:

Status	IP	S/N	Master ISP
Full Box IML Complete	q5	0504-00007005	0

Below the status bar is a navigation menu on the left with icons and labels: Configuration Status, Guided FRU Replacement, Software Release Level, File Utilities, Drain Drive, and Subsystem Debug.

The main content area is titled "ISP Information" and contains a table with two columns: "ISP Card" and "ISP Hard Drives".

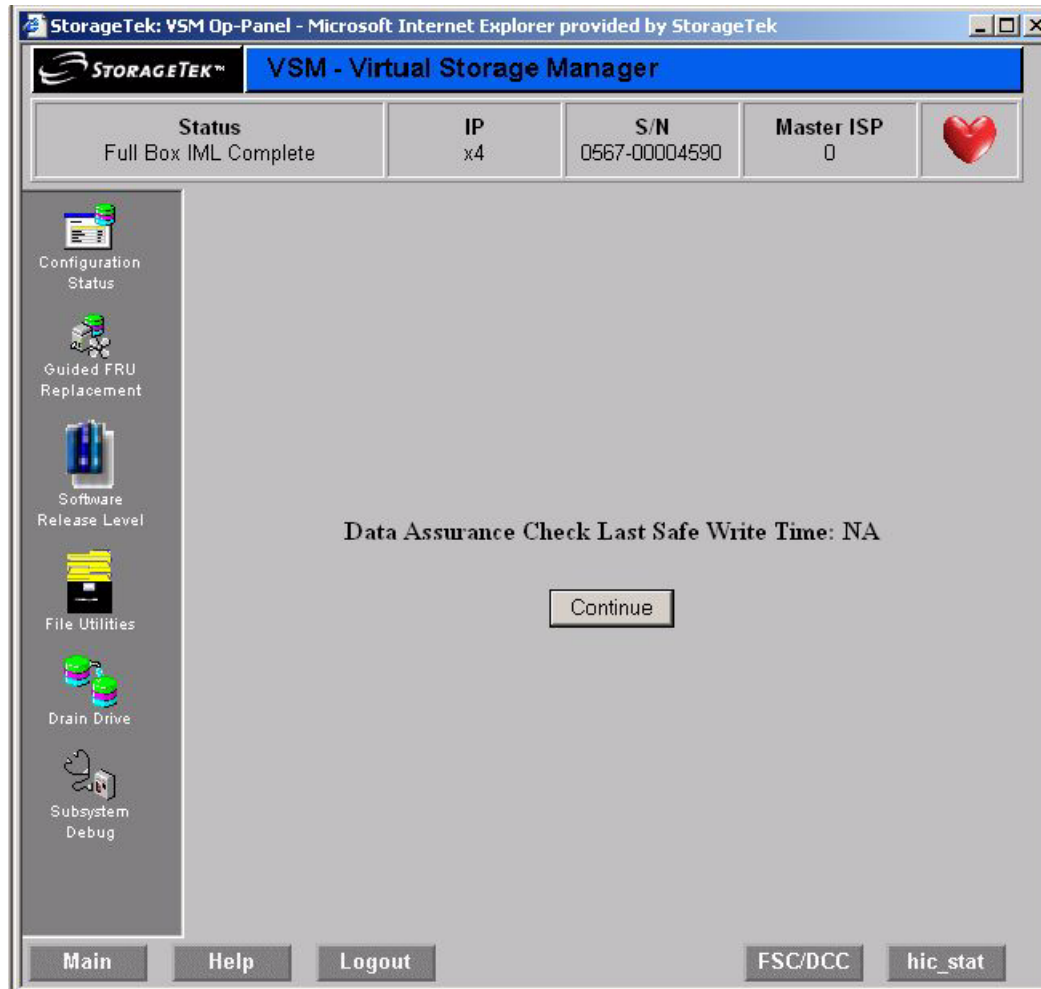
ISP Card		ISP Hard Drives	
ISP Master	0	Disk Space Left	792.519 MB
Other ISP	Online	Number of Files Left	1338
ISP 0 Prom Revision	2.0.0.4		
ISP 1 Prom Revision	2.0.0.4		
ISP 0 VIP Flash Version	99.99.99.99		
ISP 1 VIP Flash Version	99.99.99.99		

At the bottom of the interface, there are buttons for "Main", "Help", "Logout", "FSC/DCC", and "hic\_stat".

**Figure 2-19. ISP Information Screen**

## DAC State Screen

To access the DAC State screen, click the active DAC State text field on the Configuration / Status Menu screen, [Figure 2-4](#) on page 2-7.



**Figure 2-20. DAC State Screen**

## FRU Status Screen (1 of 7)

To access the *FRU Status* screen, click the active *FRU Status* text field on the *Configuration / Status Menu* screen, [Figure 2-4](#) on page 2-7. Use the onscreen scroll bar to view additional pages of FRU status information, which are not depicted here.

**StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek**

**STORAGETEK™ VSM - Virtual Storage Manager**

**Status:** Full Box IML Complete    **IP:** q5    **S/N:** 0504-00007005    **Master ISP:** 0

**Navigation Sidebar:**

- Configuration Status
- Guided FRU Replacement
- Software Release Level
- File Utilities
- Drain Drive
- Subsystem Debug

**Fence Status:**

```

Regional Fence -----+
Component Fence -----+ |
Compat Fence -----+ | |
FRU Fence -----+ | | |
Functional Fence -+ | | | |
DIAG Fence -----+ | | | |
IML Fence -----+ | | | |

```

Location	Card Type	Part Number	Serial Number	
CU.1.IPX0A	IPX3	000312312203	000020	.
CU.1.IPX0B	IPX3	000312312203	000020	.
CU.1.ICE00	ICE3	000311828203	201490	.
CU.1.ICE01	ICE3	000311828202	200205	.
CU.1.ICE02	ICE3	000311828203	201550	.
CU.1.ICE03	ICE3	000311828202	200027	.
CU.1.IPX1B	IPX3	000312312203	000051	.
CU.1.IPX1A	IPX3	000312312203	000051	.
CU.1.IPX2A	IPX3	000312312203	000082	.
CU.1.IPX2B	IPX3	000312312203	000082	.
CU.1.ICE13	ICE3	000311828203	201518	.
CU.1.ICE12	ICE3	000311828203	201519	P . Y . . . . .
CU.1.ICE11	ICE3	000311828203	201668	.
CU.1.ICE10	ICE3	000311828203	201404	.
CU.1.IPX3B	IPX3	000312312203	000084	.
CU.1.IPX3A	IPX3	000312312203	000084	.
CU.1.LPS0	LPS2	000311595806	000135	.
CU.1.LPS1	LPS2	000311595806	000138	.
CU.1.FRM	FRM		00007005	.
CU.1.ISP0	ISP3	000312305203	002945	.
CU.1.ISP1	ISP3	000311855407	000283	.
CU.2.AVMO	AVM4	000311884509	002986	.
CU.2.AVM1	AVM4	000311884509	003079	.
CU.2.ANVO	ANV	000311898407	000106	.
CU.2.ANV1	ANV	000311898306	000007	.

**Buttons:** Main, Help, Logout, FSC/DCC, hic\_stat

Figure 2-21. FRU Status Screen (1 of 7)

## ? Drain Drive Screen (1 of 2)

To access the customer-level Drain Drive screen, click the active Drain Drive text field on the Customer Main Menu screen, [Figure 2-3](#) on page 2-6.

When you select an array to drain and click Submit, a subscreen displays with the message **Drain In Progress**, then another subscreen displays with the message **Drain Completed Successfully**.

StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek

**STORAGETEK™** **VSM - Virtual Storage Manager**

Status: Full Box IML Complete | IP: VTSSo | S/N: 0504-00004579 | Master ISP: 1

**Drain Request Page**

Array 0: ☐ Array 2: ☐  
Array 1: ☐ Array 3: ☐

JBOD	DA7.0	DA7.1	DA7.2	DA7.3	DA7.4	DA7.5	DA7.6	DA7.7
JBOD3	Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav
	DA6.0	DA6.1	DA6.2	DA6.3	DA6.4	DA6.5	DA6.6	DA6.7
	Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav

JBOD	DA5.0	DA5.1	DA5.2	DA5.3	DA5.4	DA5.5	DA5.6	DA5.7
JBOD2	Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav
	DA4.0	DA4.1	DA4.2	DA4.3	DA4.4	DA4.5	DA4.6	DA4.7
	Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav

JBOD	DA3.0	DA3.1	DA3.2	DA3.3	DA3.4	DA3.5	DA3.6	DA3.7
JBOD1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Spare	Ary1
	DA2.0	DA2.1	DA2.2	DA2.3	DA2.4	DA2.5	DA2.6	DA2.7
	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1

Main Help Logout FSC/DCC hic\_stat

Figure 2-22. Drain Drive Screen (1 of 2)

## Drain Drive Screen (2 of 2)

StorageTek: VSM Op-Panel - Microsoft Internet Explorer provided by StorageTek

**STORAGETEK™ VSM - Virtual Storage Manager**

Status	IP	S/N	Master ISP
Full Box IML Complete	VTSSo	0504-00004579	1

Configuration Status  
Guided FRU Replacement  
Software Release Level  
File Utilities  
Drain Drive  
Subsystem Debug

JBOD2	Onlv	Onlv	Onlv	Onlv	Onlv	Onlv	Onlv	Onlv
DA4.0	DA4.1	DA4.2	DA4.3	DA4.4	DA4.5	DA4.6	DA4.7	
Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav	Unav

JBOD1	DA3.0	DA3.1	DA3.2	DA3.3	DA3.4	DA3.5	DA3.6	DA3.7
<input type="checkbox"/>	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Spare	Ary1
DA2.0	DA2.1	DA2.2	DA2.3	DA2.4	DA2.5	DA2.6	DA2.7	
Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1	Ary1

JBOD0	DA1.0	DA1.1	DA1.2	DA1.3	DA1.4	DA1.5	DA1.6	DA1.7
<input type="checkbox"/>	Ary0	Ary0	Ary0	Ary0	Ary0	Ary0	Ary0	Spare
DA0.0	DA0.1	DA0.2	DA0.3	DA0.4	DA0.5	DA0.6	DA0.7	
Ary0	Ary0	Ary0	Ary0	Ary0	Ary0	Ary0	Ary0	Ary0

**Color Code Key**

Array 0:	Unavailable:	Out Of Spec:
Array 1:	MAT:	Attention:
Array 2:	Spare:	Drain:
Array 3:	Invalid Array No:	Drain To:

Main Help Logout FSC/DCC hic\_stat

Figure 2-23. Drain Drive Screen (2 of 2)

