



# DMF Manager

February 2011



# Overview Screen

DMF Manager - Mozilla Firefox

File Edit View History Bookmarks Tools Help

sgl copansys.com https://dmf-vtl.tst.copansys.com:1179/

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Configuration Storage Messages Statistics Help Log In

Reports Alerts Libraries Tapes DMF I/O DMF Activity DMF Resources Overview

DMF

306 Alerts

dmf\_services

vtl\_1s

/dmi\_fs2 /dmi\_fs3 /dmi\_fs4

mg1

mg0

mg\_policy

space\_policy

dg40 dg33

vg36 vg30 vg32 vg34

dg41 dg34

vg41 vg40

vg31

vg33 vg35

vg37

dump\_tasks

dg30 dg35

Done

# Daily Reports

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2011 February 02/10/2011

- Audit aborted (02:57:06 AM)
- Daily Activity (02:57:21 AM)
- Errors copying databases (02:57:30 AM)
- Database snapshot failed (02:57:30 AM)
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- Errors copying databases (02:57:30 AM)
- Log errors (03:01:03 AM)
- Daily Activity (04:00:19 AM)
- Daily Drive (04:20:12 AM)
- Daily tsreport for dmfs (04:25:11 AM)

02/09/2011 02/08/2011 02/07/2011 02/06/2011 02/05/2011 02/04/2011

- Log errors (03:01:02 AM)
- Daily Drive (04:20:10 AM)

Reports for **Thursday 02/10/2011:**

**Subject: Audit aborted on dmfs** Time sent: **02:57:06 AM**

```

sgi_dmfs-1190 dmaudit: warning
  Cannot get parameter 'MIGRATION_LEVEL' for /dmfs/move from the DMFS confi.
  The Data Migration daemon process is not responding.
  
```

**Subject: Daily Activity Report for dmfs** Time sent: **02:57:21 AM**

Report on Filesystems on dmfs

Occupancy:	State	Files	Space
/dmi_fs2	DUL (Dual-state)	18828 (20%)	10584
	MIG (Migrating)	38 (0%)	24
	OFL (Offline)	12695 (13%)	0
	PAR (Partial-state)	6630 (7%)	2686
	REG (Non-DMFS)	57347 (60%)	31501
UNM (Unmigrating)	1 (0%)	0	
	(subtotal)	95539	44796
/dmi_fs3	DUL (Dual-state)	355 (21%)	635381

Done

# Alerts

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69 unique alerts in 4 Pages: 1 2 3 4 Next [Alerts for February 2011 that are unacknowledged]

Select	Time	Priority	Alert Message	Count
02/10/2011				
<input type="checkbox"/>	04:25:11		run_daily_tsreport: Daily tsreport completed	1
<input type="checkbox"/>	04:20:12		run_daily_drive_report: No cleaning related tape alerts (code 0014, 0015, 0016) occurred since 2011/02/09 04:20.	1
<input type="checkbox"/>	03:03:56		Volume Group vg36 has fewer than RESERVED_VOLUMES (3) empty, writable tapes. Migrations to this VG are not allowed while below this threshold.	2
<input type="checkbox"/>	03:03:56		Volume Group vg37 has fewer than RESERVED_VOLUMES (3) empty, writable tapes. Migrations to this VG are not allowed while below this threshold.	2
<input type="checkbox"/>	03:03:55		Volume group vg36 has only 3 free tapes, but it needs 10	2
<input type="checkbox"/>	03:03:55		Volume group vg37 has only 3 free tapes, but it needs 10	2
<input type="checkbox"/>	03:03:48		DMF has had no usable drives in OpenVault drive group 'c301' for more than 0 seconds	1
<input type="checkbox"/>	03:03:44		Started DMF.	2
<input type="checkbox"/>	03:03:41		Stopped DMF.	2
<input type="checkbox"/>	03:01:03		run_scan_logs: Log errors on dmf-vtl	1
<input type="checkbox"/>	02:57:36		run_copy_databases: Errors copying databases on dmf-vtl.	3

Done

# View Tape Cartridge Usage

DMF Manager - Mozilla Firefox

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Configuration Storage Messages Statistics Help Log In

Reports Alerts Libraries Tapes DMF I/O DMF Activity DMF Resources Overview

Library Servers

- vtl\_ls
  - vg32
  - vg33
  - vg34
  - vg35
  - vg36
  - vg37
  - vg31
  - vg30
- HFlag Values
  - hfull

364 Tapes in 19 Pages: 1 2 3 4 5 6 7 8 9 10 Next

All Tapes:

Select	Tape ID	Volume Group	Data Left (MB)	Data Written (MB)	Hold Flags (hflags)	Update Age
<input type="checkbox"/>	C07WBM	vg33	551322.244526	555322.932653	-----	3m
<input type="checkbox"/>	C06GB6	vg32	516780.203480	516780.891608	-----	3m
<input type="checkbox"/>	C04SBI	vg30	515290.365539	515570.859619	-----	4m
<input type="checkbox"/>	C01EB4	vg35	702338.526885	704338.526883	-----	5m
<input type="checkbox"/>	C05CAC	vg31	609678.198134	611624.180627	-----	6m
<input type="checkbox"/>	C07VBL	vg33	658441.618471	660441.618473	-----	6m
<input type="checkbox"/>	C00TBJ	vg34	89145.743992	89145.743992	-----	7m
<input type="checkbox"/>	C06IB8	vg32	490333.983645	490333.983645	-----	11m
<input type="checkbox"/>	C05AB0	vg31	689059.300765	691059.300765	-----	13m
<input type="checkbox"/>	C06JB9	vg32	621456.121281	623456.121280	-----	17m
<input checked="" type="checkbox"/>	C06JAJ	vg32	745178.178870	749223.468340	-----u-----	21m
<input type="checkbox"/>	C00UBK	vg34	546289.535204	546289.535204	-----	23m
<input type="checkbox"/>	C05ZAZ	vg31	94347.604704	94347.604704	-----	23m
<input type="checkbox"/>	C04UBK	vg30	387980.993968	387982.395195	-----	42m
<input type="checkbox"/>	C04TAT	vg30	328714.993730	334714.993728	-----	53m

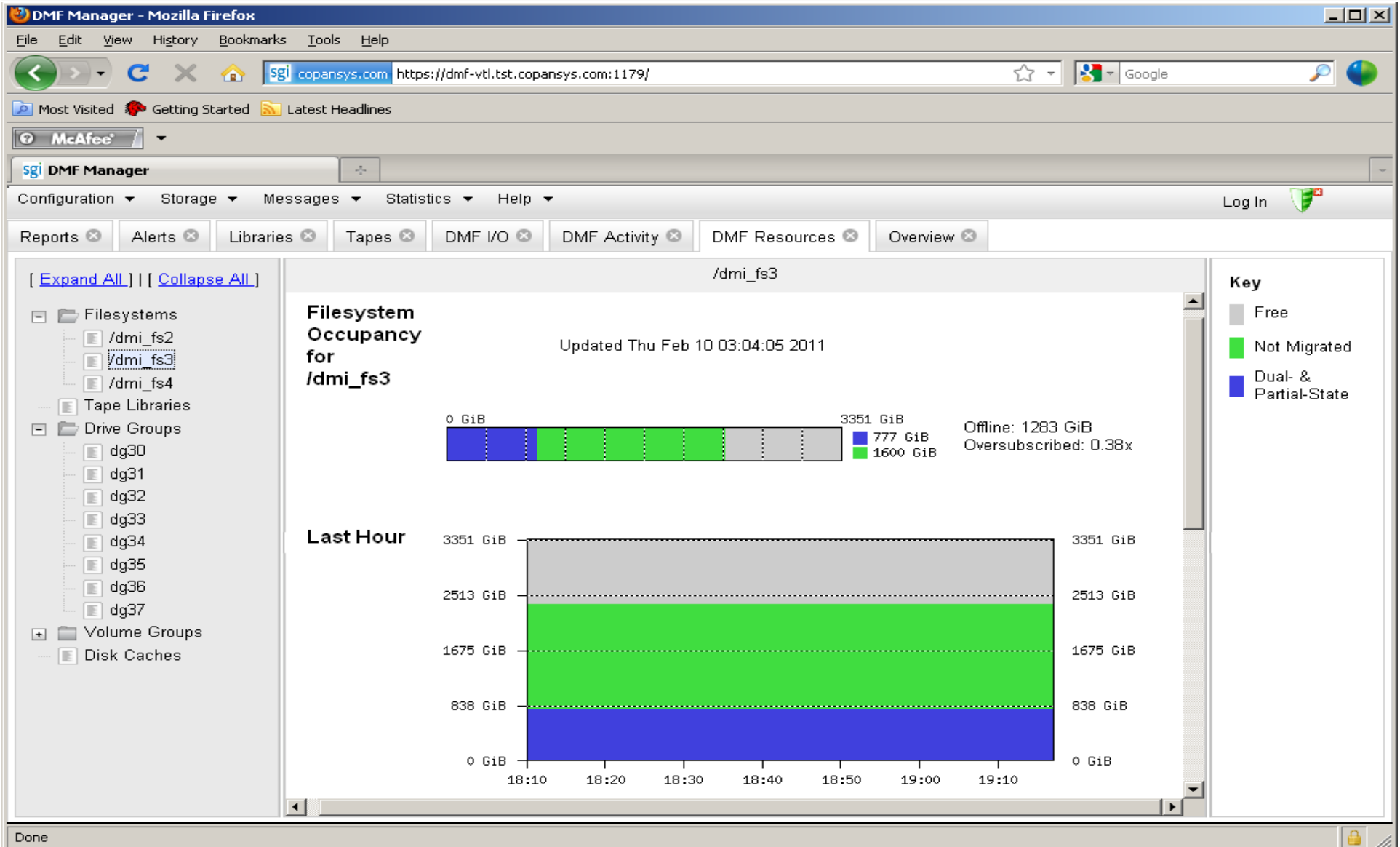
# Documentation

The screenshot shows the DMF Manager web interface in Mozilla Firefox. A help popup window titled "What is -----u-----" is open, explaining hold flags. The popup text reads: "A hold flag (hflag) specifies migration restrictions for a tape. Each flag has a specific position and alphabetic value. If the flag is off, a dash (-) is displayed in its position; if the flag is on, the alphabetic abbreviation character is displayed in its position." Below this text is a bulleted list of flags: e (herr) -- Error, indicates a database inconsistency error; f (hfree) -- Free, indicates that the tape is free for reuse; o (hoa) -- Operator/Administrator, indicates that the tape should not be used; r (hro) -- Read-only, indicates that the tape cannot be written to, but can be read from; v (hvfy) -- Verify, indicates that the tape should be verified before reuse; l (hlock) -- Lock, indicates that the tape is temporarily locked, which can happen when multiple read attempts fail; u (hfull) -- Full, indicates that the tape is full and no more writes will occur.

The background interface shows a table of tapes with columns for MB, Hold Flags (hflags), and Update Age. The table contains several rows of data, with the row containing the flag 'u' highlighted in yellow.

MB	Hold Flags (hflags)	Update Age
	-----	3m
	-----	3m
	-----	4m
	-----	5m
	-----	6m
	-----	6m
	-----	7m
	-----	11m
	-----	13m
	-----	17m
	-----u-----	21m
<input type="checkbox"/>	C00UBK vg34 546289.535204 546289.535204	23m
<input type="checkbox"/>	C05ZAZ vg31 94347.604704 94347.604704	23m
<input type="checkbox"/>	C04UBK vg30 387980.993968 387982.395195	42m
<input type="checkbox"/>	C04TAT vg30 328714.993730 334714.993728	53m

# Filesystem Usage



# Drive Group Usage

The screenshot shows the DMF Manager web interface in Mozilla Firefox. The browser address bar displays the URL: <https://dmf-vtl.tst.copansys.com:1179/>. The interface includes a navigation menu with options like Configuration, Storage, Messages, Statistics, and Help. Below the menu, there are tabs for Reports, Alerts, Libraries, Tapes, DMF I/O, DMF Activity, DMF Resources, and Overview. The main content area displays the Drive Group Usage for 'dg31'.

**Library Server:** vtl\_ls  
**Drive Group:** dg31

	State	Activity	Purpose	Volume Group	Volume Name	ZoneBlock
c301d1	Idle	-	(UNKNOWN)	-	-	-
c301d2	Busy	Reading	Recall	vg31	C05AB0	103 1829
c301d3	Idle	-	(UNKNOWN)	-	-	-
c301d4	Busy	Unmounting	Recall	vg31	C05ZAZ	BOT -
c301d5	Idle	-	(UNKNOWN)	-	-	-
c301d6	Busy	Reading	Recall	vg31	C05BAB	83 2709
c301d7	Idle	-	(UNKNOWN)	-	-	-

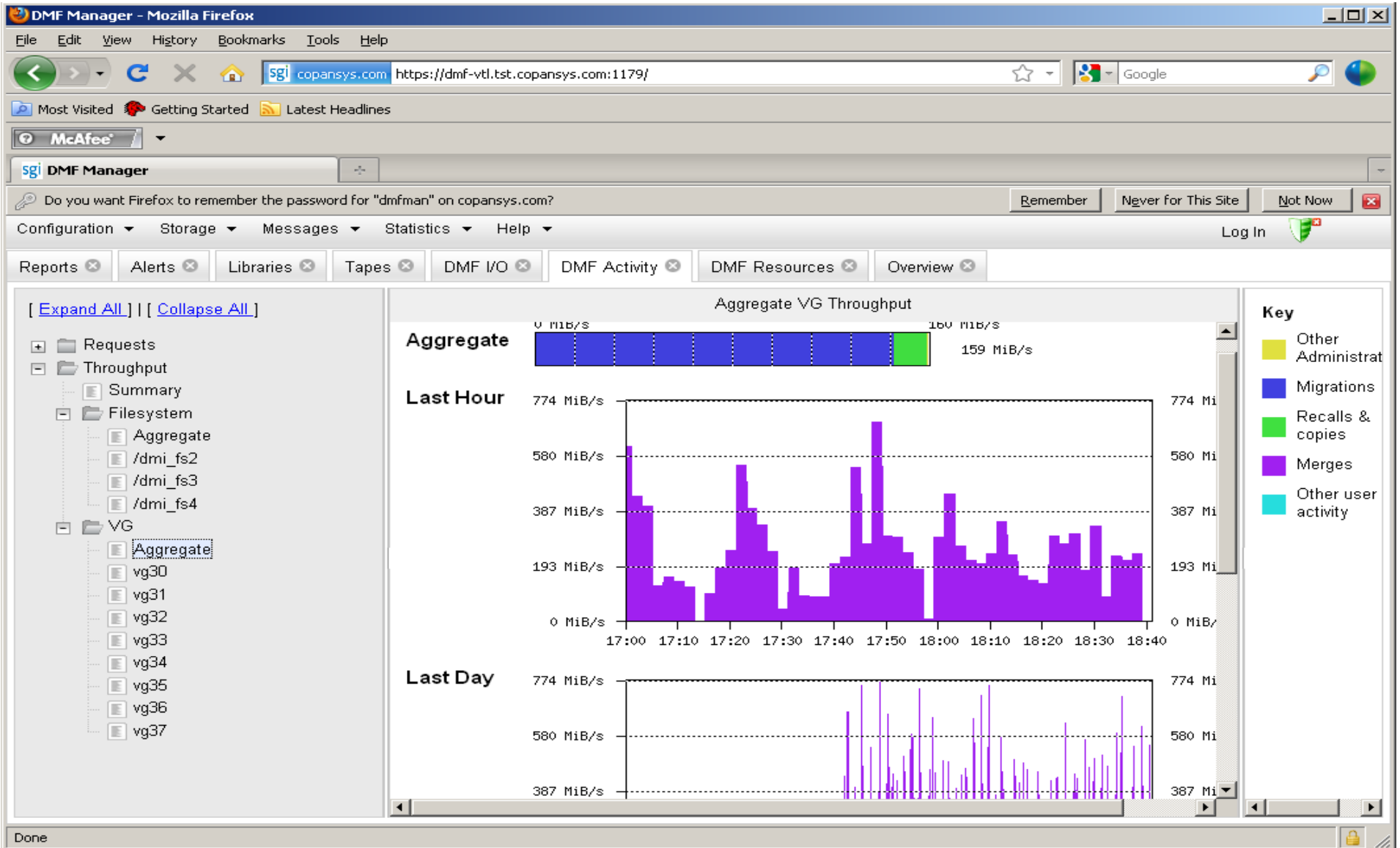


# Library View

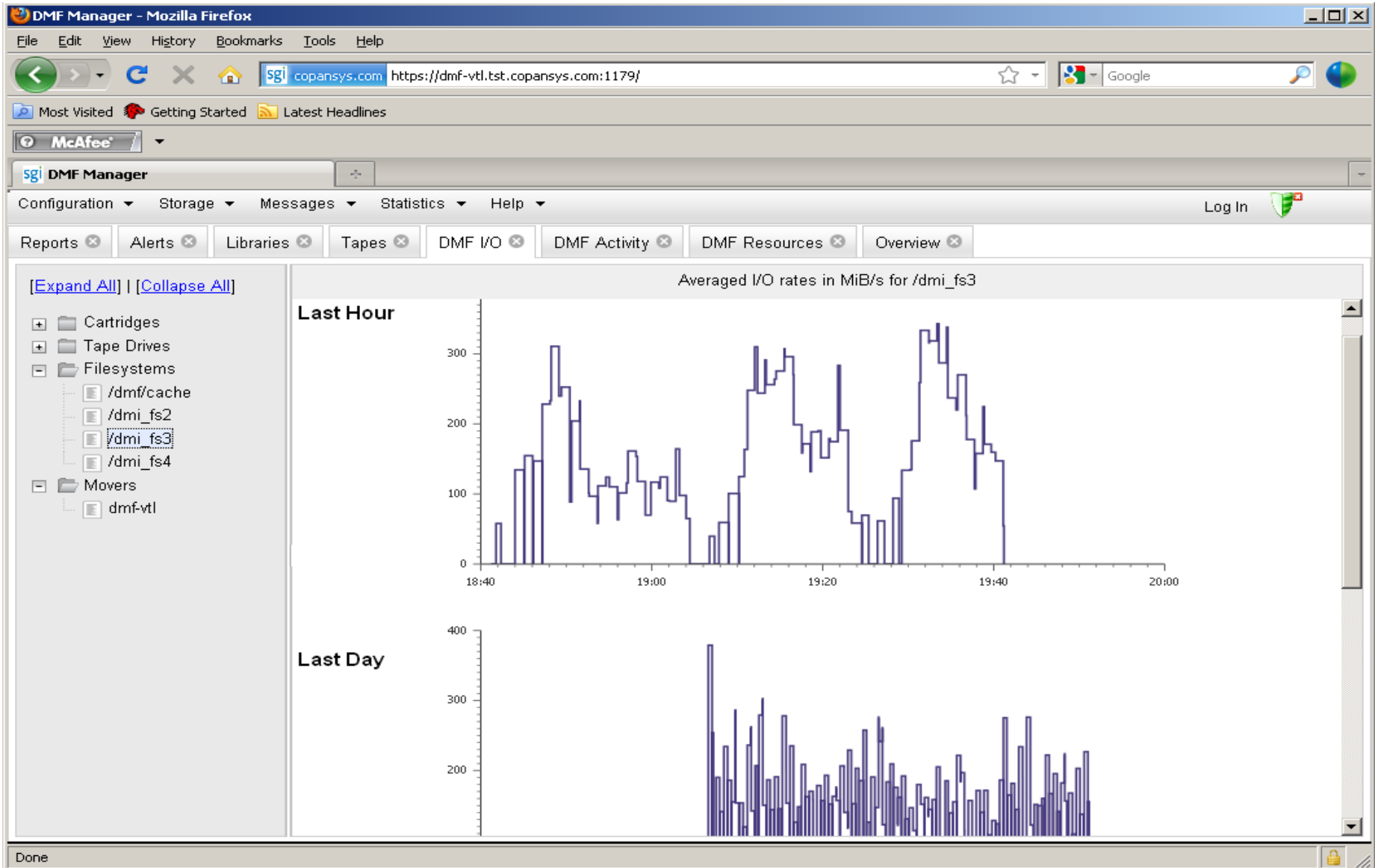
The screenshot shows the DMF Manager web interface in Mozilla Firefox. The browser address bar shows the URL <https://dmf-vtl.tst.copansys.com:1179/>. The interface includes a navigation menu with options like Configuration, Storage, Messages, Statistics, and Help. Below the menu are tabs for Reports, Alerts, Libraries, Tapes, DMF I/O, DMF Activity, DMF Resources, and Overview. The main content area displays a tree view on the left with folders for Summary, dmf-vtl, and c300. The right side shows a table titled "Library (Summary):" with columns for Select, Drive Name, Status, and Mounted Tape. The table lists various drives (c300d1 to c302d3) and their corresponding tape status and data.

Select	Drive Name	Status	Mounted Tape
<input type="checkbox"/>	c300d1	Enabled	C04PAP, Read 3498 blocks in zone 118
<input type="checkbox"/>	c300d2	Enabled	No tape mounted
<input type="checkbox"/>	c300d3	Enabled	C04TAT, Written 6287 blocks in zone 38
<input type="checkbox"/>	c300d4	Enabled	No tape mounted
<input type="checkbox"/>	c300d5	Enabled	No tape mounted
<input type="checkbox"/>	c300d6	Enabled	C04SBI, Written 4319 blocks in zone 71
<input type="checkbox"/>	c300d7	Enabled	C04SAS, Read 1807 blocks in zone 9
<input type="checkbox"/>	c301d1	Enabled	C05CAC, Written 5820 blocks in zone 131
<input type="checkbox"/>	c301d2	Enabled	No tape mounted
<input type="checkbox"/>	c301d3	Enabled	No tape mounted
<input type="checkbox"/>	c301d4	Enabled	C05BB1, Written 8689 blocks in zone 118
<input type="checkbox"/>	c301d5	Enabled	No tape mounted
<input type="checkbox"/>	c301d6	Enabled	No tape mounted
<input type="checkbox"/>	c301d7	Enabled	No tape mounted
<input type="checkbox"/>	c302d1	Enabled	No tape mounted
<input type="checkbox"/>	c302d2	Enabled	No tape mounted
<input type="checkbox"/>	c302d3	Enabled	C06LAL, Written 13225 blocks in zone 75

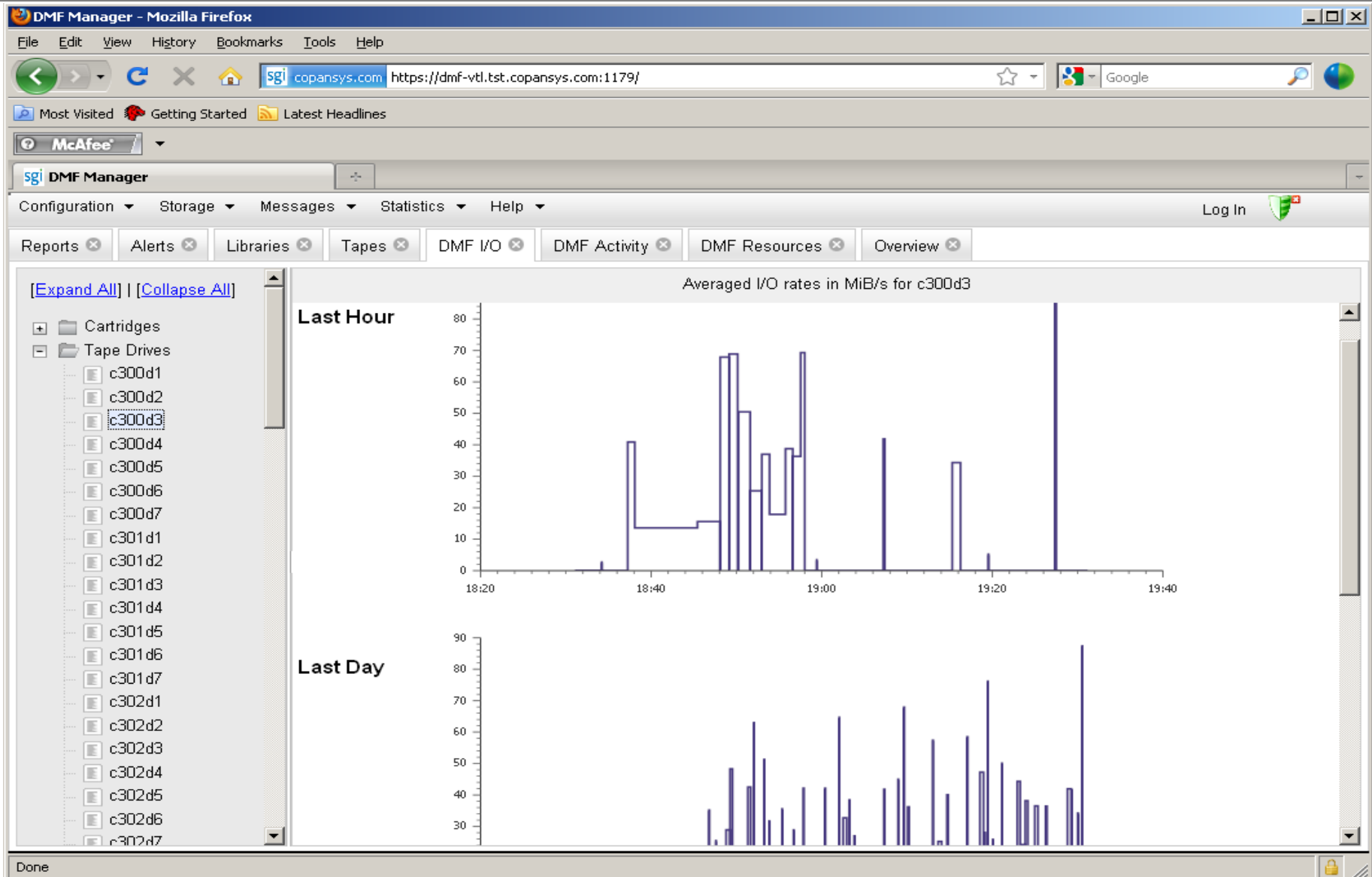
# Library I/O Throughput



# Filesystem I/O Throughput



# Tape Drive I/O Throughput



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