

Clarification to prospective bidder's query against NIB No.2 dated 08/04/2016 for Annual Maintenance Contract of Storage Area Network (SAN) system at Corporate Head Quarters, NEEPCO, Shillong.

SI No	Prospective Bidder's Query	NEEPCO's reply
1.	Request for providing the full specifications (storage capacity, RAID level, HDD type, etc) of the following: 1. IBM System Storage EXP5000 2. IBM System Storage Controller DS5100 3. Cisco MDS 9124 Multilayer Fabric Switch	The detail specification is given as under

PROFILE FOR STORAGE SUBSYSTEM

ARRAYS-----

Number of arrays: 1
 Name: 0
 Status: Optimal
 Capacity: 3,349.492 GB
 RAID level: 5
 Media type: Hard Disk Drive
 Interface type: Fibre Channel
 Enclosure loss protection: No
 Security Capable: No
 Secure: No
 Current owner: Controller in slot A

Associated logical drives and free capacity

Logical Drive	Capacity
PRIMAVERA	300.000 GB
PMSPORTAL	50.000 GB
Free Capacity:	2,999.492 GB

Associated drives - present (in piece order)

Enclosure	Slot
0	1
0	2
0	3
0	4

0 5
0 6
0 7
0 8
0 9

CONTROLLERS-----

Number of controllers: 2

Controller in Enclosure 85, Slot A

Status: Online

Current configuration

Firmware version: 07.77.18.00
Appware version: 07.77.18.00
Bootware version: 07.77.18.00
NVSRAM version: N1818D51R0777V05

Current ID (ALPA)

On drive channel 1: 125/0x1
Model name: 7995
Board ID: 7091
Submodel ID: 94
Product ID: 1818 FASTT
Revision: 0730
Replacement part number: 49Y4133
Part number: 43163-00
Serial number: SP20121609
Vendor: IBM
Date of manufacture: January 9, 2012
Trunking supported: Yes

Data Cache

Total present: 4096 MB
Total used: 4096 MB

Data Cache Module

Status: Empty
Location: Controller A, Slot 1
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available

Manufacturer: Not Available

Date of manufacture: Not available

Data Cache Module

Status: Optimal

Location: Controller A, Slot 2

Capacity: 1,024 MB

Replacement Part number: Not Available

Manufacturer Part Number: SG572288LSI535P2SI

Part Number: Not Available

Serial number: 11973497

Manufacturer: Smart Modular

Date of manufacture: January 29, 2012

Data Cache Module

Status: Empty

Location: Controller A, Slot 3

Capacity: Not Available

Replacement Part number: Not Available

Manufacturer Part Number: Not Available

Part Number: Not Available

Serial number: Not Available

Manufacturer: Not Available

Date of manufacture: Not available

Data Cache Module

Status: Optimal

Location: Controller A, Slot 4

Capacity: 1,024 MB

Replacement Part number: Not Available

Manufacturer Part Number: SG572288LSI535P2SI

Part Number: Not Available

Serial number: 11973664

Manufacturer: Smart Modular

Date of manufacture: January 29, 2012

Data Cache Module

Status: Optimal

Location: Controller A, Slot 5

Capacity: 1,024 MB

Replacement Part number: Not Available

Manufacturer Part Number: SG572288LSI535P2SI

Part Number: Not Available

Serial number: 11975251

Manufacturer: Smart Modular

Date of manufacture: January 29, 2012

Data Cache Module

Status: Empty

Location: Controller A, Slot 6
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Optimal
Location: Controller A, Slot 7
Capacity: 1,024 MB
Replacement Part number: Not Available
Manufacturer Part Number: SG572288LSI535P2SI
Part Number: Not Available
Serial number: 92850058
Manufacturer: Smart Modular
Date of manufacture: October 1, 2011

Data Cache Module

Status: Empty
Location: Controller A, Slot 8
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Processor cache:

Total present: 2044 MB

Processor Cache Module

Status: Optimal
Location: Controller A, Slot 1
Capacity: 2,048 MB
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Cache Backup Device

Status: Optimal
Type: USB flash drive
Location: Controller A, Connector USB 3

Capacity: 3,920 MB
Product ID: USB 2.0 FD
Part number: Not Available
Serial number: AA14150A4G009238
Revision level: 4096
Manufacturer: PNY
Date of manufacture: Not available

Host Interface Board

Status: Optimal
Location: Slot 2
Type: Fibre channel
Number of ports: 4
Board ID: 0901
Replacement part number: 46C4482
Part number: PN 46C4482
Serial number: SN SP11579905
Vendor: VN IBM
Date of manufacture: April 1, 2011

Host Interface Board

Status: Optimal
Location: Slot 1
Type: iSCSI
Number of ports: 2
Board ID: 0501
Replacement part number: 59Y5095
Part number: PN 59Y5095
Serial number: SN SP02737275
Vendor: VN IBM
Date of manufacture: July 1, 2010
Date/Time: Tue Apr 19 12:27:30 IST 2016

Controller DNS/Network name: target

Remote login: Enabled*

Ethernet port: 1
Link status: Up
MAC address: 00:a0:b8:6e:96:28
Negotiation mode: Auto-negotiate
Port speed: 100 Mbps
Duplex mode: Full duplex
Network configuration: Static
IP address: 153.3.1.17
Subnet mask: 255.255.0.0

Gateway: 153.3.1.100

Ethernet port: 2
Link status: Down
MAC address: 00:a0:b8:6e:96:29
Negotiation mode: Auto-negotiate
Port speed: Unknown
Duplex mode: Half duplex
Network configuration: Static
IP address: 192.168.129.101
Subnet mask: 255.255.255.0
Gateway: 153.3.1.100

*NVRAM setting, may be overridden by DHCP/Bootp server setting

Drive interface: Fibre
Channel: 1
Port: 8, 7, ESM A 1B
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 2 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 2
Port: 6, 5
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 3
Port: 4, 3
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up

Trunking active: No

Drive interface: Fibre
Channel: 4
Port: 2, 1
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 5
Port: 1, 2, ESM B 1B
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 2 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 6
Port: 3, 4
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 7
Port: 5, 6
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Drive interface: Fibre
Channel: 8

Port: 7, 8
Current ID: 125/0x1
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Trunking active: No

Host interface: iSCSI
Host Interface Card(HIC): 1
Channel: 1
Port: 1
Link status: None
MAC address: 00:00:00:00:00:00
Duplex mode: Half duplex
Configured port speed: UNKNOWN
Current port speed: UNKNOWN
Maximum port speed: UNKNOWN
iSCSI controller
Vendor: QLogic Corporation
Part number: 4032
Serial number:
Firmware revision:
TCP listening port: 0
Maximum transmission unit: 0 bytes/frame
ICMP PING responses: Enabled
IPv4: Disabled
Network configuration: DHCP
IP address: 0.0.0.0
Configuration status: UNKNOWN
Subnet mask: 0.0.0.0
Gateway: 0.0.0.0
Ethernet priority: Disabled
Priority: 0
Virtual LAN (VLAN): Disabled
VLAN ID: 0
IPv6: Disabled
Auto-configuration: Disabled
Local IP address: Unknown
Routable IP address 1: Unknown
Routable IP address 2: Unknown
Router IP address: 0:0:0:0:0:0:0
Ethernet priority: Disabled
Priority: 0

Virtual LAN (VLAN): Disabled
VLAN ID: 0
Hop limit: 0
Neighbor discovery
Reachable time: 0 ms
Retransmit time: 0 ms
Stale timeout: 0 ms
Duplicate address detection transmit count: 0

Host interface: iSCSI
Host Interface Card(HIC): 1
Channel: 2
Port: 2
Link status: None
MAC address: 00:00:00:00:00:00
Duplex mode: Half duplex
Configured port speed: UNKNOWN
Current port speed: UNKNOWN
Maximum port speed: UNKNOWN
iSCSI controller
Vendor: QLogic Corporation
Part number: 4032
Serial number:
Firmware revision:
TCP listening port: 0
Maximum transmission unit: 0 bytes/frame
ICMP PING responses: Enabled
IPv4: Disabled
Network configuration: DHCP
IP address: 0.0.0.0
Configuration status: UNKNOWN
Subnet mask: 0.0.0.0
Gateway: 0.0.0.0
Ethernet priority: Disabled
Priority: 0
Virtual LAN (VLAN): Disabled
VLAN ID: 0
IPv6: Disabled
Auto-configuration: Disabled
Local IP address: Unknown
Routable IP address 1: Unknown
Routable IP address 2: Unknown
Router IP address: 0:0:0:0:0:0:0:0
Ethernet priority: Disabled

Priority: 0
Virtual LAN (VLAN): Disabled
VLAN ID: 0
Hop limit: 0
Neighbor discovery
Reachable time: 0 ms
Retransmit time: 0 ms
Stale timeout: 0 ms
Duplicate address detection transmit count: 0

Host interface: Fibre
Host Interface Card(HIC):
Channel: 3
Current ID: Not applicable/0xFFFFFFFF
Preferred ID: 2/0xE4
NL-Port ID: 0xFFFFFFFF
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Down
Topology: Not Available
World-wide port identifier: 20:3a:00:a0:b8:6e:96:28
World-wide node identifier: 20:0a:00:a0:b8:6e:96:28
Part type: HPFC-6640 revision 5

Host interface: Fibre
Host Interface Card(HIC):
Channel: 4
Current ID: Not applicable/0xFFFFFFFF
Preferred ID: 3/0xE2
NL-Port ID: 0x270000
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Up
Topology: Fabric Attach
World-wide port identifier: 20:4a:00:a0:b8:6e:96:28
World-wide node identifier: 20:0a:00:a0:b8:6e:96:28
Part type: HPFC-6640 revision 5

Host interface: Fibre
Host Interface Card(HIC):
Channel: 5
Current ID: Not applicable/0xFFFFFFFF

Preferred ID: 4/0xE1
NL-Port ID: 0xFFFFFFFF
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Down
Topology: Not Available
World-wide port identifier: 20:5a:00:a0:b8:6e:96:28
World-wide node identifier: 20:0a:00:a0:b8:6e:96:28
Part type: HPFC-6640 revision 5

Host interface: Fibre
Host Interface Card(HIC):
Channel: 6
Current ID: Not applicable/0xFFFFFFFF
Preferred ID: 5/0xE0
NL-Port ID: 0xFFFFFFFF
Maximum data rate: 4 Gbps
Current data rate: 4 Gbps
Data rate control: Auto
Link status: Down
Topology: Not Available
World-wide port identifier: 20:6a:00:a0:b8:6e:96:28
World-wide node identifier: 20:0a:00:a0:b8:6e:96:28
Part type: HPFC-6640 revision 5

Controller in Enclosure 85, Slot B - Unable to retrieve latest data; using last known state.

Status: Failed

Current configuration

Firmware version: 07.77.18.00
Appware version: 07.77.18.00
Bootware version: 07.77.18.00
NVSRAM version: N1818D51R0777V05

Pending configuration

Firmware version: None
Appware version: None
Bootware version: None
NVSRAM version: None
Transferred on: None
Model name: 7995
Board ID: 7091

Submodel ID: 94
Product ID: 1818 FASSt
Revision: 0730
Replacement part number: 49Y4133
Part number: 43163-00
Serial number: SP94140140
Vendor: IBM
Date of manufacture: October 22, 2011
Trunking supported: No

Data Cache

Total present: 4096 MB
Total used: 0 MB

Data Cache Module

Status: Not available
Location: Controller B, Slot 9
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 10
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 11
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 12
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 13
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 14
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 15
Capacity: Not Available
Replacement Part number: Not Available
Manufacturer Part Number: Not Available
Part Number: Not Available
Serial number: Not Available
Manufacturer: Not Available
Date of manufacture: Not available

Data Cache Module

Status: Not available
Location: Controller B, Slot 16
Capacity: Not Available
Replacement Part number: Not Available

Manufacturer Part Number: Not Available

Part Number: Not Available

Serial number: Not Available

Manufacturer: Not Available

Date of manufacture: Not available

Processor cache:

Total present: 2044 MB

Processor Cache Module

Status: Not available

Location: Controller B, Slot 2

Capacity: Not Available

Replacement Part number: Not Available

Manufacturer Part Number: Not Available

Part Number: Not Available

Serial number: Not Available

Manufacturer: Not Available

Date of manufacture: Not available

Host Interface Board

Status: Optimal

Location: Slot 1

Type: Unknown

Number of ports: 0

Board ID: Not Available

Replacement part number: Not Available

Part number: Not Available

Serial number: Not Available

Vendor: Not Available

Date of manufacture: Not available

Host Interface Board

Status: Optimal

Location: Slot 2

Type: Unknown

Number of ports: 0

Board ID: Not Available

Replacement part number: Not Available

Part number: Not Available

Serial number: Not Available

Vendor: Not Available

Date of manufacture: Not available

Date/Time: Not Available

Associated Logical Drives (* = Preferred Owner): None

Controller DNS/Network name:
Remote login: Disabled
Ethernet port: 1
Link status: Down
MAC address: 00:00:00:00:00:00
Negotiation mode: Auto-negotiate
Port speed: Unknown
Duplex mode: Half duplex
Network configuration: Static
IP address: 0.0.0.0
Subnet mask: 0.0.0.0
Gateway: 0.0.0.0

Ethernet port: 1
Link status: Down
MAC address: 00:00:00:00:00:00
Negotiation mode: Auto-negotiate
Port speed: Unknown
Duplex mode: Half duplex
Network configuration: Static
IP address: 0.0.0.0
Subnet mask: 0.0.0.0
Gateway: 0.0.0.0

ENCLOSURES-----

Drive Expansion Enclosure 0 Overall Component Information

Enclosure audible alarm: Enabled
Enclosure path redundancy: OK
Current drive types: Fibre channel
Configuration settings version: FD 02.50 08/19/2010 MIN_VER=02
Part number: PN 69Y2742
Serial number: SN SZ12501624
Vendor: VN IBM
Date of manufacture: July 1, 2011

ESM CRUs Detected: 2
ESM card status: Optimal
Firmware Version: 98E4
Configuration settings version: FD 02.50 08/19/2010
Maximum data rate: 4 Gbps
Current data rate: 2 Gbps
Location: A (Left)
Card communication: OK

Trunking supported: No
Product ID: EXP5000
Part number: PN 46C8880
Serial number: SN SZ12500039
Vendor: IBM
Date of manufacture: July 1, 2011

ESM card status: Optimal
Firmware Version: 98E4
Configuration settings version: FD 02.50 08/19/2010
Maximum data rate: 4 Gbps
Current data rate: 2 Gbps
Location: B (Right)
Card communication: OK
Trunking supported: No
Product ID: EXP5000
Part number: PN 46C8880
Serial number: SN SZ12501202
Vendor: IBM
Date of manufacture: July 1, 2011

SFPs Detected: 4

SFP status: Optimal
Attached to: ESM CRU A (Left)
Location: Unknown
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV3GV
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: ESM CRU A (Left)
Location: Unknown
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c

Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV3N1
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: ESM CRU B (Right)
Location: Unknown
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV3YM
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: ESM CRU B (Right)
Location: Unknown
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV6S6
Vendor: JDSU
Date of manufacture: March 31, 2011

Power-Fan CRUs Detected: 2

Power-fan CRU (Left) status: Optimal
Part number: PN 81Y2437
Serial number: SN T7T112822941
Vendor: VN IBM
Date of manufacture: July 1, 2011

Power-fan CRU (Right) status: Optimal
Part number: PN 81Y2437

Serial number: SN T7T112822942
Vendor: VN IBM
Date of manufacture: July 1, 2011

Power Supplies Detected: 2

Power supply status: Optimal
Location: Left
Part number: PN 81Y2437
Serial number: SN T7T112822941
Vendor: VN IBM
Date of manufacture: July 1, 2011

Power supply status: Optimal
Location: Right
Part number: PN 81Y2437
Serial number: SN T7T112822942
Vendor: VN IBM
Date of manufacture: July 1, 2011

Fans Detected: 2

Fan Status: Optimal
Location: Left
Fan Status: Optimal
Location: Right

Temperature Sensors Detected: 4

Temperature sensor status: Optimal
Location: ESM CRU A (Left)
Temperature sensor status: Optimal
Location: ESM CRU B (Right)
Temperature sensor status: Optimal
Location: Power-fan CRU (Left)
Temperature sensor status: Optimal
Location: Power-fan CRU (Right)

Controller Module 85 Overall Component Information

Enclosure audible alarm: Disabled
Part number: PN 46C8875
Serial number: SN SP10614285
Vendor: VN IBM
Date of manufacture: February 1, 2011

Interconnect-Battery CRUs Detected: 1

Interconnect-battery CRU status: Needs attention
Replacement part number: PN 46C8875
Serial number: SN SP10614285
Vendor: VN IBM

Date of manufacture: February 1, 2011
Interconnect-Battery CRUs Detected: 1
Interconnect status: Optimal
Location: Interconnect-battery CRU

Batteries Detected: 2

Battery status: Optimal
Location: Interconnect-battery CRU (Left pack)
Age: 310 days
Days until replacement: Not applicable
Last learn cycle: April 23, 2015
Next learn cycle: May 19, 2016
Weeks between learn cycles: 8
Part number: PN 46C8872
Serial number: SN SY10160268SA
Vendor: VN IBM
Date of manufacture: January 1, 2011

Battery status: Not Available
Location: Interconnect-battery CRU (Right pack)
Age: 310 days
Days until replacement: Not Available
Last learn cycle: April 23, 2015
Next learn cycle: May 19, 2016
Weeks between learn cycles: 8
Part number: Not Available
Serial number: Not Available
Vendor: Not Available
Date of manufacture: Not Available

SFPs Detected: 6

SFP status: Optimal
Attached to: Drive-side of controller A
Location: Channel 1, Port 1
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV7U3
Vendor: JDSU
Date of manufacture: March 31, 2011
SFP status: Optimal
Attached to: Drive-side of controller A

Location: Channel 2, Port 1
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV5Z1
Vendor: JDSU
Date of manufacture: March 31, 2011
SFP status: Optimal
Attached to: Drive-side of controller A
Location: Channel 3, Port 1
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV661
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: Drive-side of controller A
Location: Channel 4, Port 1
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV6W7
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: Host-side of controller A
Location: Channel 6
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps

Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV58R
Vendor: JDSU
Date of manufacture: March 31, 2011

SFP status: Optimal
Attached to: Host-side of controller A
Location: Channel 5
Supported data rate(s): 1 Gbps, 2 Gbps, 4 Gbps
Link length: Intermediate
Connector: LC
Transmitter type: Shortwave Laser w/o OFC
Transmission media: TM Multi-mode 62.5m(M6)
IEEE company ID: 00 01 9c
Revision: 1
Part number: PLRXPLVESG464N
Serial number: CB13SV5RU
Vendor: JDSU
Date of manufacture: March 31, 2011

Power-Fan CRUs Detected: 2

Power-fan CRU (Left) status: Optimal
Part number: PN 81Y2436
Serial number: SN I9T110424158
Vendor: VN IBM
Date of manufacture: January 1, 2011
Power-fan CRU (Right) status: Optimal
Part number: PN 81Y2436
Serial number: SN I9T110424123
Vendor: VN IBM
Date of manufacture: January 1, 2011

Power Supplies Detected: 2

Power supply status: Optimal
Location: Left
Power supply status: Optimal
Location: Right

Fans Detected: 4

Fan Status: Optimal
Location: Left

Fan Status: Optimal
 Location: Left
 Fan Status: Optimal
 Location: Right
 Fan Status: Optimal
 Location: Right

Temperature Sensors Detected: 2
 Temperature sensor status: Optimal
 Location: Power-fan CRU (Left)
 Temperature sensor status: Optimal
 Location: Power-fan CRU (Right)

DRIVES-----

SUMMARY

Number of drives: 10
 Current media type(s): Hard Disk Drive (10)
 Current interface type(s): Fibre (10)

BASIC:

ENCLOSURE, SLOT	STATUS	CAPACITY	MEDIA TYPE	INTERFACE TYPE	CURRENT DATA RATE
PRODUCT ID	FIRMWARE VERSION	CAPABILITIES			
0, 1	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 2	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 3	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 4	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 5	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 6	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 7	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 8	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1
0, 9	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A4
0, 10	Optimal	419.186 GB	Hard Disk Drive Fibre	2 Gbps	ST3450857FC F B9A1

DRIVE CHANNELS:

ENCLOSURE, SLOT	PREFERRED CHANNEL	REDUNDANT CHANNEL
0,	1	5
0,	2	1
0,	3	5
0,	4	1
0,	5	1

0,	6	5	1
0,	7	1	5
0,	8	5	1
0,	9	1	5
0,	10	5	1

HOT SPARE COVERAGE:

The following arrays are not protected: None - All arrays are protected

Total hot spare drives: 1

Standby: 1

In use: 0

Standby drive at enclosure 0, slot 10 (Fibre, 419.186 GB)

Protects the following arrays: 0

DETAILS

Drive at Enclosure 0, Slot 1

Status: Optimal

Mode: Assigned

Raw capacity: 419.186 GB

Usable capacity: 418.686 GB

World-wide identifier: 20:00:b4:52:53:57:c1:5c:00:00:00:00:00:00:00

Associated array: 0

Port	Channel	ID
------	---------	----

0	1	0/0xEF
---	---	--------

1	5	0/0xEF
---	---	--------

Media type: Hard Disk Drive

Interface type: Fibre Channel

Drive path redundancy: OK

Security Capable: No

Secure: No

Read/write accessible: Yes

Security key identifier: Not Applicable

Speed: 15,000 RPM

Current data rate: 2 Gbps

Product ID: ST3450857FC F

Drive Firmware Version: B9A1

Serial number: 6SK0Q2290000B146P2JP

Manufacturer: IBM-SSG

Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 2

Status: Optimal
Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:c6:ab:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	5	1/0xE8
1	1	1/0xE8

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0K2S00000B146P5F8
Manufacturer: IBM-SSG
Date of manufacture: July 5, 2011

Drive at Enclosure 0, Slot 3

Status: Optimal

Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:00:24:b6:7e:8b:cd:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	1	2/0xE4
1	5	2/0xE4

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0Q5HJ0000B145N439
Manufacturer: IBM-SSG
Date of manufacture: July 1, 2011

Drive at Enclosure 0, Slot 4

Status: Optimal

Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:c0:70:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	5	3/0xE2
1	1	3/0xE2

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0RJKB0000B147HBVR
Manufacturer: IBM-SSG
Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 5

Status: Optimal

Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:bf:fb:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	1	4/0xE1
1	5	4/0xE1

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0RJDZ0000B147KPP2
Manufacturer: IBM-SSG
Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 6

Status: Optimal
Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:ad:56:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	5	5/0xE0
1	1	5/0xE0

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes

Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SKORN9D0000B147KWSR
Manufacturer: IBM-SSG
Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 7

Status: Optimal
Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:a9:97:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	1	6/0xDC
1	5	6/0xDC

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK
Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable
Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0SDPA0000B147L0PW
Manufacturer: IBM-SSG
Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 8

Status: Optimal
Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:57:ad:98:00:00:00:00:00:00:00
Associated array: 0

Port	Channel	ID
0	5	7/0xDA

1 1 7/0xDA
Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SKORNBP0000B146P06Q
Manufacturer: IBM-SSG
Date of manufacture: July 4, 2011

Drive at Enclosure 0, Slot 9

Status: Optimal
Mode: Assigned
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:9d:cd:71:00:00:00:00:00:00:00
Associated array: 0
Port Channel ID
0 1 8/0xD9
1 5 8/0xD9
Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A4
Serial number: 6SK241H50000B3320MFB
Manufacturer: IBM-SSG
Date of manufacture: March 22, 2013

Drive at Enclosure 0, Slot 10

Status: Optimal

Mode: Hot spare standby
Raw capacity: 419.186 GB
Usable capacity: 418.686 GB
World-wide identifier: 20:00:b4:52:53:58:0d:4c:00:00:00:00:00:00:00
Associated array: None

Port	Channel	ID
0	5	9/0xD6
1	1	9/0xD6

Media type: Hard Disk Drive
Interface type: Fibre Channel
Drive path redundancy: OK

Security Capable: No
Secure: No
Read/write accessible: Yes
Security key identifier: Not Applicable

Speed: 15,000 RPM
Current data rate: 2 Gbps
Product ID: ST3450857FC F
Drive Firmware Version: B9A1
Serial number: 6SK0SXF0000B146L1NG
Manufacturer: IBM-SSG
Date of manufacture: July 6, 2011

SUMMARY-----

Number of controllers: 2
High performance tier controllers: Disabled
Number of arrays: 1
RAID 6: Enabled
Total number of logical drives used: 3
Number of standard logical drives: 2
Number of access logical drives: 1
Total number of logical drives allowed: 2048
Drive Limit Management:
Number of drive slots discovered: 16
Number of drive slots allowed: 256
FlashCopy Logical Drives: Enabled
Number of flashcopies used: 0
Number of flashcopies allowed: 1024

Number of flashcopies allowed per base logical drive: 16

Solid State Disk Support: Enabled

Number of drives used: 0

Number of drives allowed: 20

Enhanced Remote Mirroring (ERM): Disabled/Deactivated

Number of mirrors used: 0

Number of mirrors allowed: 0

VolumeCopy: Enabled

Number of copies used: 0

Number of copies allowed: 2047

Number of drives: 10

Mixed drive types: Enabled

Current media type(s): Hard Disk Drive (10)

Current interface type(s): Fibre (10)

Total hot spare drives: 1

Standby: 1

In use: 0

Full Disk Encryption: Disabled

Security key identifier: None

Storage Partitioning: Enabled

Number of partitions used: 2

Number of partitions allowed: 8

Number of logical drives allowed per partition: 256

Access logical drive: LUN 31,31,31,31,31,31,31

Default host OS: Base (Host OS index 0)

Current configuration

Firmware version: 07.77.18.00

NVSRAM version: N1818D51R0777V05

SMW version: 10.77.G5.28

Pending configuration

Staged firmware download supported: Yes

Firmware version: None

NVSRAM version: None

Transferred on: None

Controller module audible alarm: Disabled

NVSRAM configured for batteries: Yes

Start cache flushing at (in percentage): 80

Stop cache flushing at (in percentage): 80

Cache block size (in KB): 16

Media scan frequency (in days): 30

Failover alert delay (in minutes): 5

Feature enable identifier: 3035373136203337323434204E962EC2

Feature pack: DS5100

Feature pack submodel ID: 94

Storage Subsystem world-wide identifier (ID): 600A0B80006E5BCE000000004E962EBB

iSCSI Settings

Target name: iqn.1992-01.com.lsi:7091.600a0b80006e5bce000000004e962ebb

Target alias:

Target authentication: None

CHAP secret defined: No

Target discovery

iSNS server registration: Enabled

IPv4 Configuration: Static

IPv4 IP address: 0.0.0.0

IPv6 IP address: 0:0:0:0:0:0:0

TCP listening port: 11159

Disallow unnamed discovery sessions: No