

<b>Specyfikacja sprzętu względem, którego świadczone będą usługi serwisowe</b>
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**1. Serwer Bull Escala PL860R z konsolą KVM i serwerem HMC:**

Serwer:

System Model: IBM,8204-E8A

Machine Serial Number: 6580DF2

Processor Type: PowerPC\_POWER6

Processor Implementation Mode: POWER 6

Processor Version: PV\_6\_Compat

Number Of Processors: 8

Processor Clock Speed: 3503 MHz

CPU Type: 64-bit

Kernel Type: 64-bit

LPAR Info: 1 CRDB

Memory Size: 63744 MB

Good Memory Size: 63744 MB

Platform Firmware level: EL350\_171

Firmware Version: IBM,EL350\_171

Console Login: enable

Auto Restart: true

Full Core: false

AIX Operating system version and maintenance level (oslevel -s): 5300-12-05-1140

## Network Information

Host Name: crbd\_zefir

IP Address: 10.37.0.24

Sub Netmask: 255.255.254.0

Gateway: 10.37.0.1

Name Server:

Domain Name:

## Paging Space Information

Total Paging Space: 8448MB

Percent Used: 3%

## Volume Groups Information

## =====

## Active VGs

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datavg3:

PV_NAME	PV STATE		TOTAL PPs	FREE PPs	FREE DISTRIBUTION
hdisk15	active	1126	0	00..00..00..00	
hdisk16	active	266	0	00..00..00..00	
hdisk8	active	2792	2283	559..49..558..558..559	

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datavg:

PV_NAME	PV STATE		TOTAL PPs	FREE PPs	FREE DISTRIBUTION
hdisk1	active	546	219	110..00..00..00..109	
hdisk4	active	546	219	110..00..00..00..109	

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tempvg:

PV_NAME	PV STATE		TOTAL PPs	FREE PPs	FREE DISTRIBUTION
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Załącznik Nr 2 do Umowy nr .....

```
hdisk2    active    273    152    43..00..00..54..55
hdisk5    active    273    153    44..00..00..54..55
```

backup2emcvg:

```
PV_NAME    PV STATE    TOTAL PPs    FREE PPs    FREE DISTRIBUTION
hdiskpower0    active    2047    0    00..00..00..00..00
```

rootvg:

```
PV_NAME    PV STATE    TOTAL PPs    FREE PPs    FREE DISTRIBUTION
hdisk0     active    546    397    109..42..28..109..109
hdisk3     active    546    397    109..42..28..109..109
```

INSTALLED RESOURCE LIST

The following resources are installed on the machine.

+/- = Added or deleted from Resource List.

\* = Diagnostic support not available.

Model Architecture: chrp

Model Implementation: Multiple Processor, PCI bus

```
+ sys0                                System Object
+ sysplanar0                          System Planar
* vio0                                Virtual I/O Bus
* vsa0    U8204.E8A.6580DF2-V1-C0      LPAR Virtual Serial Adapter
* vty0    U8204.E8A.6580DF2-V1-C0-L0    Asynchronous Terminal
* pci9    U78A0.001.DNWGGHK-P1          PCI Express Bus
+ fcs2    U78A0.001.DNWGGHK-P1-C3-T1    4Gb FC PCI Express Adapter (df1000fe)
* fcnet2  U78A0.001.DNWGGHK-P1-C3-T1    Fibre Channel Network Protocol Device
+ fscsi2  U78A0.001.DNWGGHK-P1-C3-T1    FC SCSI I/O Controller Protocol Device
+ fcs3    U78A0.001.DNWGGHK-P1-C3-T2    4Gb FC PCI Express Adapter (df1000fe)
* fcnet3  U78A0.001.DNWGGHK-P1-C3-T2    Fibre Channel Network Protocol Device
+ fscsi3  U78A0.001.DNWGGHK-P1-C3-T2    FC SCSI I/O Controller Protocol Device
* pci8    U78A0.001.DNWGGHK-P1          PCI Express Bus
* pci7    U78A0.001.DNWGGHK-P1          PCI Express Bus
* pci6    U78A0.001.DNWGGHK-P1          PCI Express Bus
+ fcs0    U78A0.001.DNWGGHK-P1-C1-T1    4Gb FC PCI Express Adapter (df1000fe)
* fcnet0  U78A0.001.DNWGGHK-P1-C1-T1    Fibre Channel Network Protocol Device
+ fscsi0  U78A0.001.DNWGGHK-P1-C1-T1    FC SCSI I/O Controller Protocol Device
+ fcs1    U78A0.001.DNWGGHK-P1-C1-T2    4Gb FC PCI Express Adapter (df1000fe)
* fcnet1  U78A0.001.DNWGGHK-P1-C1-T2    Fibre Channel Network Protocol Device
+ fscsi1  U78A0.001.DNWGGHK-P1-C1-T2    FC SCSI I/O Controller Protocol Device
* hdisk15 U78A0.001.DNWGGHK-P1-C1-T2-W20640080E52D006E-L0    MPIO DS3500 Disk
* hdisk16 U78A0.001.DNWGGHK-P1-C1-T2-W20640080E52D006E-L1000000000000    MPIO DS3500 Disk
* hdisk8  U78A0.001.DNWGGHK-P1-C1-T2-W20640080E52D006E-L2000000000000    MPIO DS3500 Disk
* pci5    U78A0.001.DNWGGHK-P1          PCI Bus
+ sissas1 U78A0.001.DNWGGHK-P1-C5-T1          PCI-X266 Ext Dual-x4 3Gb SAS Adapter
* sas1    U78A0.001.DNWGGHK-P1-C5-T1    Controller SAS Protocol
+ ses5    U78A0.001.DNWGGHK-P2-Y2          SAS Enclosure Services Device
+ ses6    U78A0.001.DNWGGHK-P2-Y1          SAS Enclosure Services Device
+ hdisk3  U78A0.001.DNWGGHK-P2-D6          SAS Disk Drive (73400 MB)
+ hdisk4  U78A0.001.DNWGGHK-P2-D7          SAS Disk Drive (73400 MB)
+ hdisk5  U78A0.001.DNWGGHK-P2-D8          SAS Disk Drive (73400 MB)
* sata1   U78A0.001.DNWGGHK-P1-C5-T1          Controller SATA Protocol
* pci4    U78A0.001.DNWGGHK-P1          PCI Bus
+ ent2    U78A0.001.DNWGGHK-P1-C4-T1          2-Port 10/100/1000 Base-TX PCI-X Adapter (14108902)
+ ent3    U78A0.001.DNWGGHK-P1-C4-T2          2-Port 10/100/1000 Base-TX PCI-X Adapter (14108902)
* pci3    U78A0.001.DNWGGHK-P1          PCI Bus
+ usbhc0  U78A0.001.DNWGGHK-P1          USB Host Controller (33103500)
+ usbhc1  U78A0.001.DNWGGHK-P1          USB Host Controller (33103500)
+ usbhc2  U78A0.001.DNWGGHK-P1          USB Enhanced Host Controller (3310e000)
* pci2    U78A0.001.DNWGGHK-P1          PCI Bus
+ sissas0 U78A0.001.DNWGGHK-P1-T9          PCI-X266 Planar 3Gb SAS Adapter
* sas0    U78A0.001.DNWGGHK-P1-T9          Controller SAS Protocol
+ ses2    U78A0.001.DNWGGHK-P2-Y1          SAS Enclosure Services Device
+ hdisk0  U78A0.001.DNWGGHK-P2-D3          SAS Disk Drive (73400 MB)
+ ses3    U78A0.001.DNWGGHK-P2-Y2          SAS Enclosure Services Device
+ ses4    U78A0.001.DNWGGHK-P2-Y1          SAS Enclosure Services Device
+ hdisk1  U78A0.001.DNWGGHK-P2-D4          SAS Disk Drive (73400 MB)
+ hdisk2  U78A0.001.DNWGGHK-P2-D5          SAS Disk Drive (73400 MB)
* sata0   U78A0.001.DNWGGHK-P1-T9          Controller SATA Protocol
+ cd0     U78A0.001.DNWGGHK-P2-D2          SATA DVD-ROM Drive
```

Załącznik Nr 2 do Umowy nr .....

* pci1	U7311.D20.65234EC-P1	PCI Bus
* pci13	U7311.D20.65234EC-P1	PCI Bus
+ ent0	U7311.D20.65234EC-P1-C01-T1	2-Port 10/100/1000 Base-TX PCI-X Adapter (14108902)
+ ent1	U7311.D20.65234EC-P1-C01-T2	2-Port 10/100/1000 Base-TX PCI-X Adapter (14108902)
* pci14	U7311.D20.65234EC-P1	PCI Bus
+ fcs4	U7311.D20.65234EC-P1-C02-T1	FC Adapter
* fcnet4	U7311.D20.65234EC-P1-C02-T1	Fibre Channel Network Protocol Device
+ fscsi4	U7311.D20.65234EC-P1-C02-T1	FC SCSI I/O Controller Protocol Device
* hdisk10	U7311.D20.65234EC-P1-C02-T1-W500601604BE01192-L0	EMC CLARiiON FCP RAID 5 Disk
* hdisk11	U7311.D20.65234EC-P1-C02-T1-W500601684BE01192-L0	EMC CLARiiON FCP RAID 5 Disk
+ fcs5	U7311.D20.65234EC-P1-C02-T2	FC Adapter
* fcnet5	U7311.D20.65234EC-P1-C02-T2	Fibre Channel Network Protocol Device
+ fscsi5	U7311.D20.65234EC-P1-C02-T2	FC SCSI I/O Controller Protocol Device
* hdisk13	U7311.D20.65234EC-P1-C02-T2-W500601604BE01192-L0	EMC CLARiiON FCP RAID 5 Disk
* hdisk14	U7311.D20.65234EC-P1-C02-T2-W500601684BE01192-L0	EMC CLARiiON FCP RAID 5 Disk
* hdiskpower0	U7311.D20.65234EC-P1-C02-T2-L2	PowerPath Device
* pci15	U7311.D20.65234EC-P1	PCI Bus
* pci16	U7311.D20.65234EC-P1	PCI Bus
+ sisscsia1	U7311.D20.65234EC-P1-C04	PCI-XDDR Dual Channel Ultra320 SCSI Adapter
+ scsi2	U7311.D20.65234EC-P1-C04-T1	PCI-X Dual Channel Ultra320 SCSI Adapter bus
+ hdisk7	U7311.D20.65234EC-P1-C04-T1-L8-L0	16 Bit LVD SCSI Disk Drive (73400 MB)
+ ses1	U7311.D20.65234EC-P1-C04-T1-L15-L0	SCSI Enclosure Services Device
+ scsi3	U7311.D20.65234EC-P1-C04-T2	PCI-X Dual Channel Ultra320 SCSI Adapter bus
* pci0	U7311.D20.65234EC-P1	PCI Bus
* pci10	U7311.D20.65234EC-P1	PCI Bus
* pci11	U7311.D20.65234EC-P1	PCI Bus
* pci12	U7311.D20.65234EC-P1	PCI Bus
+ sisscsia0	U7311.D20.65234EC-P1-C08	PCI-XDDR Dual Channel Ultra320 SCSI Adapter
+ scsi0	U7311.D20.65234EC-P1-C08-T1	PCI-X Dual Channel Ultra320 SCSI Adapter bus
+ hdisk6	U7311.D20.65234EC-P1-C08-T1-L8-L0	16 Bit LVD SCSI Disk Drive (73400 MB)
+ ses0	U7311.D20.65234EC-P1-C08-T1-L15-L0	SCSI Enclosure Services Device
+ scsi1	U7311.D20.65234EC-P1-C08-T2	PCI-X Dual Channel Ultra320 SCSI Adapter bus
* lhea0	U78A0.001.DNWGGHK-P1	Logical Host Ethernet Adapter (l-hea)
+ ent5	U78A0.001.DNWGGHK-P1-C6-T2	Logical Host Ethernet Port (lp-hea)
+ ent4	U78A0.001.DNWGGHK-P1-C6-T1	Logical Host Ethernet Port (lp-hea)
+ L2cache0		L2 Cache
+ mem0		Memory
+ proc0		Processor
+ proc2		Processor
+ proc4		Processor
+ proc6		Processor
+ proc8		Processor
+ proc10		Processor
+ proc12		Processor
+ proc14		Processor

Filesystem	GB	blocks	Free	%Used	Used	%Used	Mounted on
/dev/hd4	0.25	0.12	52%	5033	15%	/	
/dev/hd2	7.25	4.72	35%	50947	5%	/usr	
/dev/hd9var	2.12	1.62	24%	2975	1%	/var	
/dev/hd3	0.12	0.10	24%	513	3%	/tmp	
/dev/hd1	0.12	0.10	22%	1474	6%	/home	
/proc	-	-	-	-	-	/proc	
/dev/hd10opt	0.12	0.02	88%	3642	45%	/opt	
/dev/sybrslv	0.38	0.15	60%	2255	3%	/sybasers	
/dev/sybsystemdatalv	30.00	4.87	84%	29	1%	/sybdata/system	
/dev/syblv2	10.38	9.31	11%	2503	1%	/sybase	
/dev/templv	30.00	4.89	84%	7251	1%	/temp	
/dev/backup2emclv	2046.00	880.07	57%	32	1%	/dump	
/dev/sybuserdata3lv	1500.00	139.27	91%	93	1%	/sybdata/user	
/dev/sybssqdata3lv	400.00	22.01	95%	40	1%	/sybdata/ssq	

**Konsola KVM:**

1. Producent: Bull
2. Model: LCD Console
3. Type Model 7316-TF3

**Konsola (serwer) HMC BULL System x3550:**

Typ modelu: 7042CR4  
 Numer Seryjny: 657C30B

Wersja: 7  
Wydanie: 3.5.0  
Pakiet serwisowy: 4  
Wersja kompilacji: 20110927.1  
Wersja podstawowa: V7R3.4.0  
BIOS: GFEG36BUS-1.09

## 2. Macierz IBM System Storage DS3512 wraz z półką IBM System Storage EXP3512:

Macierz DS3512:  
Type: 1746-C2A  
SN: 13M0RKR

Półka EXP3512:  
Type: 1746-E2A  
SN: 13M156N

PROFILE FOR STORAGE SUBSYSTEM: CRBD\_STORAGE (Mon Dec 03 11:16:10 CET 2018)

### SUMMARY-----

Number of controllers: 2

High performance tier controllers: Disabled

Number of arrays: 2

RAID 6: Enabled

Total number of logical drives used: 4  
Number of standard logical drives: 3  
Number of access logical drives: 1  
Total number of logical drives allowed: 512

Drive Limit Management:  
Number of drive slots discovered: 24  
Number of drive slots allowed: 96

FlashCopy Logical Drives: Enabled  
Number of flashcopies used: 0  
Number of flashcopies allowed: 2  
Number of flashcopies allowed per base logical drive: 2

Solid State Disk Support: Disabled  
Number of drives used: 0  
Number of drives allowed: 0

Enhanced Remote Mirroring (ERM): Disabled/Deactivated  
Number of mirrors used: 0  
Number of mirrors allowed: 0

VolumeCopy: Disabled  
Number of copies used: 0  
Number of copies allowed: 0

Number of drives: 24  
Mixed drive types: Enabled  
Current media type(s): Hard Disk Drive (24)  
Current interface type(s): Serial Attached SCSI (SAS) (24)

Total hot spare drives: 4

Standby: 4  
In use: 0

Full Disk Encryption: Disabled  
Security key identifier: None

Storage Partitioning: Enabled  
Number of partitions used: 1  
Number of partitions allowed: 4

Number of logical drives allowed per partition: 256

Access logical drive: LUN 31 (see Mappings section for details)  
Default host OS: AIX (Host OS index 6)

Current configuration

Firmware version: 07.77.20.00  
NVSRAM version: N1746D35R0777V05  
SMW version: 10.77.G5.28

Pending configuration

Staged firmware download supported: Yes  
Firmware version: None  
NVSRAM version: None  
Transferred on: None

NVSRAM configured for batteries: Yes

Start cache flushing at (in percentage): 80  
Stop cache flushing at (in percentage): 80  
Cache block size (in KB): 4

Media scan frequency (in days): 30  
Failover alert delay (in minutes): 5

Feature enable identifier: 3137323034203034373538204F29B297

Feature pack: Base  
Feature pack submodel ID: 137

Storage Subsystem world-wide identifier (ID): 60080E500024E76E000000004F29B290

CONTROLLERS-----

Number of controllers: 2

Controller in Enclosure 99, Slot A

Status: Online

Current configuration

Firmware version: 07.77.20.00  
Appware version: 07.77.20.00  
Bootware version: 07.77.20.00  
NVSRAM version: N1746D35R0777V05

Pending configuration

Firmware version: None  
Appware version: None  
Bootware version: None  
NVSRAM version: None  
Transferred on: None

Model name: 2680  
Board ID: 2660  
Submodel ID: 137  
Product ID: 1746 FAStT  
Revision: 1070  
Replacement part number: 68Y8481

Part number: 45233-06  
Serial number: SV14204758  
Vendor: IBM  
Date of manufacture: 13 październik 2011  
Trunking supported: No

Data Cache

Total present: 752 MB  
Total used: 752 MB

Processor cache:

Total present: 272 MB

Cache Backup Device

Status: Optimal  
Type: SD flash drive  
Location: Controller A, Connector USB 1  
Capacity: 7 639 MB  
Product ID: Not Available  
Part number: Not Available  
Serial number: a0110347  
Revision level: 10  
Manufacturer: Lexar  
Date of manufacture: 1 sierpień 2011

Host Interface Board

Status: Optimal  
Location: Slot 1  
Type: Fibre channel  
Number of ports: 4  
Board ID: 0801  
Replacement part number: 69Y2841  
Part number: PN 69Y2841  
Serial number: SN SV13902352  
Vendor: VN IBM  
Date of manufacture: 1 wrzesień 2011  
Date/Time: Mon Dec 03 11:17:02 CET 2018

Associated Logical Drives (\* = Preferred Owner):

CRBD\_DANE\*, CRBD\_DANE2\*

Controller DNS/Network name: target

Remote login: Enabled\*

Ethernet port: 1

Link status: Up  
MAC address: 00:80:e5:2d:00:6e  
Negotiation mode: Auto-negotiate  
Port speed: 1000 Mbps  
Duplex mode: Full duplex  
Network configuration: Static  
IP address: 10.37.1.249  
Subnet mask: 255.255.254.0  
Gateway: 10.37.0.1

Ethernet port: 2

Link status: Down  
MAC address: 00:80:e5:2d:00:6f  
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: 10.37.0.1

\*NVSRAM setting, may be overridden by DHCP/Bootp server setting

Drive interface: SAS

Channel: 1  
Port: 1  
Status: Up  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps

Drive interface: SAS  
Channel: 2  
Port: 2  
Status: Up  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps

Host interface: SAS  
Host Interface Card(HIC):  
Channel: 1  
Port: 1  
Status: Down  
World-wide identifier: 50:08:0e:52:d0:06:e0:00  
Maximum data rate: 6 Gbps  
Current data rate: Not available  
Part type: LSI SAS2116 revision 100 664 064

Host interface: SAS  
Host Interface Card(HIC):  
Channel: 2  
Port: 2  
Status: Down  
World-wide identifier: 50:08:0e:52:d0:06:e0:04  
Maximum data rate: 6 Gbps  
Current data rate: Not available  
Part type: LSI SAS2116 revision 100 664 064

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: 8 Gbps  
Current data rate: 8 Gbps  
Data rate control: Auto  
Link status: Down  
Topology: Not Available  
World-wide port identifier: 20:34:00:80:e5:2d:00:6e  
World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
Part type: PM8032 revision 8

Host interface: Fibre  
Host Interface Card(HIC):  
Channel: 4  
Current ID: Not applicable/0xFFFFFFFF  
Preferred ID: 3/0xE2  
NL-Port ID: 0xFFFFFFFF  
Maximum data rate: 8 Gbps  
Current data rate: 8 Gbps  
Data rate control: Auto  
Link status: Down  
Topology: Not Available  
World-wide port identifier: 20:44:00:80:e5:2d:00:6e  
World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
Part type: PM8032 revision 8

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: 8 Gbps  
 Current data rate: 8 Gbps  
 Data rate control: Auto  
 Link status: Down  
 Topology: Not Available  
 World-wide port identifier: 20:54:00:80:e5:2d:00:6e  
 World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
 Part type: PM8032 revision 8

Host interface: Fibre  
 Host Interface Card(HIC):  
 Channel: 6  
 Current ID: Not applicable/0xFFFFFFFF  
 Preferred ID: 5/0xE0  
 NL-Port ID: 0x611F00  
 Maximum data rate: 8 Gbps  
 Current data rate: 2 Gbps  
 Data rate control: Auto  
 Link status: Up  
 Topology: Fabric Attach  
 World-wide port identifier: 20:64:00:80:e5:2d:00:6e  
 World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
 Part type: PM8032 revision 8

Controller in Enclosure 99, Slot B

Status: Online

Current configuration

Firmware version: 07.77.20.00  
 Appware version: 07.77.20.00  
 Bootware version: 07.77.20.00  
 NVSRAM version: N1746D35R0777V05

Pending configuration

Firmware version: None  
 Appware version: None  
 Bootware version: None  
 NVSRAM version: None

Transferred on: None

Model name: 2680  
 Board ID: 2660  
 Submodel ID: 137  
 Product ID: 1746 FAStT  
 Revision: 1070  
 Replacement part number: 68Y8481  
 Part number: 45233-06  
 Serial number: SV14017204  
 Vendor: IBM  
 Date of manufacture: 12 październik 2011  
 Trunking supported: No

Data Cache

Total present: 752 MB  
 Total used: 752 MB

Processor cache:

Total present: 272 MB

Cache Backup Device

Status: Optimal  
 Type: SD flash drive  
 Location: Controller B, Connector USB 1  
 Capacity: 7 639 MB  
 Product ID: Not Available  
 Part number: Not Available  
 Serial number: a011085e  
 Revision level: 10

Manufacturer: Lexar  
Date of manufacture: 1 sierpień 2011  
Host Interface Board  
Status: Optimal  
Location: Slot 1  
Type: Fibre channel  
Number of ports: 4  
Board ID: 0801  
Replacement part number: 69Y2841  
Part number: PN 69Y2841  
Serial number: SN SV13815492  
Vendor: VN IBM  
Date of manufacture: 1 wrzesień 2011  
Date/Time: Mon Dec 03 11:17:02 CET 2018

Associated Logical Drives (\* = Preferred Owner):  
CDBD\_SSQUEUE\*

Controller DNS/Network name: target  
Remote login: Enabled\*

Ethernet port: 1  
Link status: Up  
MAC address: 00:80:e5:24:e7:6e  
Negotiation mode: Auto-negotiate  
Port speed: 100 Mbps  
Duplex mode: Full duplex  
Network configuration: Static  
IP address: 10.37.1.248  
Subnet mask: 255.255.254.0  
Gateway: 10.37.0.1

Ethernet port: 2  
Link status: Down  
MAC address: 00:80:e5:24:e7:6f  
Negotiation mode: Auto-negotiate  
Port speed: Unknown  
Duplex mode: Half duplex  
Network configuration: Static  
IP address: 192.168.129.102  
Subnet mask: 255.255.255.0  
Gateway: 10.37.0.1

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

Drive interface: SAS  
Channel: 1  
Port: 1  
Status: Up  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps

Drive interface: SAS  
Channel: 2  
Port: 2  
Status: Up  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps

Host interface: SAS  
Host Interface Card(HIC):  
Channel: 1  
Port: 1  
Status: Down  
World-wide identifier: 50:08:0e:52:4e:76:e0:00  
Maximum data rate: 6 Gbps

Current data rate: Not available  
Part type: LSISAS2116 revision 100 664 064

Host interface: SAS  
Host Interface Card(HIC):  
Channel: 2  
Port: 2  
Status: Down  
World-wide identifier: 50:08:0e:52:4e:76:e0:04  
Maximum data rate: 6 Gbps  
Current data rate: Not available  
Part type: LSISAS2116 revision 100 664 064

Host interface: Fibre  
Host Interface Card(HIC):  
Channel: 3  
Current ID: Not applicable/0xFFFFFFFF  
Preferred ID: 8/0xD9  
NL-Port ID: 0x621F00  
Maximum data rate: 8 Gbps  
Current data rate: 2 Gbps  
Data rate control: Auto  
Link status: Up  
Topology: Fabric Attach  
World-wide port identifier: 20:35:00:80:e5:2d:00:6e  
World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
Part type: PM8032 revision 8

Host interface: Fibre  
Host Interface Card(HIC):  
Channel: 4  
Current ID: Not applicable/0xFFFFFFFF  
Preferred ID: 9/0xD6  
NL-Port ID: 0xFFFFFFFF  
Maximum data rate: 8 Gbps  
Current data rate: 8 Gbps  
Data rate control: Auto  
Link status: Down  
Topology: Not Available  
World-wide port identifier: 20:45:00:80:e5:2d:00:6e  
World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
Part type: PM8032 revision 8

Host interface: Fibre  
Host Interface Card(HIC):  
Channel: 5  
Current ID: Not applicable/0xFFFFFFFF  
Preferred ID: 10/0xD5  
NL-Port ID: 0xFFFFFFFF  
Maximum data rate: 8 Gbps  
Current data rate: 8 Gbps  
Data rate control: Auto  
Link status: Down  
Topology: Not Available  
World-wide port identifier: 20:55:00:80:e5:2d:00:6e  
World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
Part type: PM8032 revision 8

Host interface: Fibre  
Host Interface Card(HIC):  
Channel: 6  
Current ID: Not applicable/0xFFFFFFFF  
Preferred ID: 11/0xD4  
NL-Port ID: 0xFFFFFFFF  
Maximum data rate: 8 Gbps  
Current data rate: 8 Gbps  
Data rate control: Auto

Link status: Down  
 Topology: Not Available  
 World-wide port identifier: 20:65:00:80:e5:2d:00:6e  
 World-wide node identifier: 20:04:00:80:e5:2d:00:6e  
 Part type: PM8032 revision 8

## ARRAYS-----

Number of arrays: 2

Name: 0

Status: Optimal

Capacity: 1 394,475 GB

RAID level: 10

Media type: Hard Disk Drive

Interface type: Serial Attached SCSI (SAS)

Enclosure loss protection: No

Security Capable: No

Secure: No

Current owner: Controller in slot A,B

## Associated logical drives and free capacity

Logical Drive	Capacity
CRBD_DANE	1 126,399 GB
CDBD_SSQUEUE	267,000 GB
Free Capacity:	1,075 GB

## Associated drives - present (in piece order)

Enclosure	Slot
99	1 [mirrored pair with drive at enclosure 99, slot 2]
99	3 [mirrored pair with drive at enclosure 99, slot 4]
99	5 [mirrored pair with drive at enclosure 99, slot 6]
99	7 [mirrored pair with drive at enclosure 99, slot 8]
99	9 [mirrored pair with drive at enclosure 99, slot 10]
99	2 [mirrored pair with drive at enclosure 99, slot 1]
99	4 [mirrored pair with drive at enclosure 99, slot 3]
99	6 [mirrored pair with drive at enclosure 99, slot 5]
99	8 [mirrored pair with drive at enclosure 99, slot 7]
99	10 [mirrored pair with drive at enclosure 99, slot 9]

Name: 1

Status: Optimal

Capacity: 2 792,049 GB

RAID level: 10

Media type: Hard Disk Drive

Interface type: Serial Attached SCSI (SAS)

Enclosure loss protection: No

Security Capable: No

Secure: No

Current owner: Controller in slot A

Associated logical drives and free capacity

Logical Drive	Capacity
CRBD_DANE2	2 792,049 GB

Associated drives - present (in piece order)

Enclosure	Slot	
1	1	[mirrored pair with drive at enclosure 1, slot 2]
1	3	[mirrored pair with drive at enclosure 1, slot 4]
1	5	[mirrored pair with drive at enclosure 1, slot 6]
1	7	[mirrored pair with drive at enclosure 1, slot 8]
1	9	[mirrored pair with drive at enclosure 1, slot 10]
1	2	[mirrored pair with drive at enclosure 1, slot 1]
1	4	[mirrored pair with drive at enclosure 1, slot 3]
1	6	[mirrored pair with drive at enclosure 1, slot 5]
1	8	[mirrored pair with drive at enclosure 1, slot 7]
1	10	[mirrored pair with drive at enclosure 1, slot 9]

STANDARD LOGICAL DRIVES-----

SUMMARY

Number of standard logical drives: 3

See other Logical Drives sub-tabs for premium feature information.

NAME	STATUS	CAPACITY	RAID LEVEL	ARRAY	LUN	ACCESSIBLE BY	MEDIA TYPE
CDBD_SSQUEUE	Optimal	267,000 GB	10	0	1	Host CRBD_ZEFIR	Hard Disk Drive Serial Attached SCSI (SAS)
CRBD_DANE	Optimal	1 126,399 GB	10	0	0	Host CRBD_ZEFIR	Hard Disk Drive Serial Attached SCSI (SAS)
CRBD_DANE2	Optimal	2 792,049 GB	10	1	2	Host CRBD_ZEFIR	Hard Disk Drive Serial Attached SCSI (SAS)

DETAILS

Logical Drive name: CDBD\_SSQUEUE

Logical Drive status: Optimal

Capacity: 267,000 GB

Logical Drive ID: 60:08:0e:50:00:24:e7:6e:00:00:01:9e:4f:29:ba:95

Subsystem ID (SSID): 1

Associated array: 0

RAID level: 10

LUN: 1

Accessible By: Host CRBD\_ZEFIR

Media type: Hard Disk Drive

Interface type: Serial Attached SCSI (SAS)

Enclosure loss protection: No

Secure: No

Preferred owner: Controller in slot B

Current owner: Controller in slot B

Segment size: 128 KB  
Capacity reserved for future segment size changes: Yes  
Maximum future segment size: 2 048 KB  
Modification priority: High

Read cache: Enabled  
Write cache: Enabled  
Write cache without batteries: Disabled  
Write cache with mirroring: Enabled  
Flush write cache after (in seconds): 10.00  
Dynamic cache read prefetch: Enabled  
  
Enable background media scan: Enabled  
Media scan with redundancy check: Disabled

Pre-Read redundancy check: Disabled

Logical Drive name: CRBD\_DANE

Logical Drive status: Optimal

Capacity: 1 126,399 GB  
Logical Drive ID: 60:08:0e:50:00:2d:00:6e:00:00:01:99:4f:29:ba:7b  
Subsystem ID (SSID): 0  
Associated array: 0  
RAID level: 10

LUN: 0  
Accessible By: Host CRBD\_ZEFIR

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
Enclosure loss protection: No

Secure: No

Preferred owner: Controller in slot A  
Current owner: Controller in slot A

Segment size: 128 KB  
Capacity reserved for future segment size changes: Yes  
Maximum future segment size: 2 048 KB  
Modification priority: High

Read cache: Enabled  
Write cache: Enabled  
Write cache without batteries: Disabled  
Write cache with mirroring: Enabled  
Flush write cache after (in seconds): 10.00  
Dynamic cache read prefetch: Enabled  
  
Enable background media scan: Enabled  
Media scan with redundancy check: Disabled

Pre-Read redundancy check: Disabled

Logical Drive name: CRBD\_DANE2

Logical Drive status: Optimal

Capacity: 2 792,049 GB  
 Logical Drive ID: 60:08:0e:50:00:2d:00:6e:00:00:03:ef:55:8a:28:93  
 Subsystem ID (SSID): 2  
 Associated array: 1  
 RAID level: 10

LUN: 2  
 Accessible By: Host CRBD\_ZEFIR

Media type: Hard Disk Drive  
 Interface type: Serial Attached SCSI (SAS)  
 Enclosure loss protection: No

Secure: No

Preferred owner: Controller in slot A  
 Current owner: Controller in slot A

Segment size: 128 KB  
 Capacity reserved for future segment size changes: Yes  
 Maximum future segment size: 2 048 KB  
 Modification priority: High

Read cache: Enabled  
 Write cache: Enabled  
 Write cache without batteries: Disabled  
 Write cache with mirroring: Enabled  
 Flush write cache after (in seconds): 10.00  
 Dynamic cache read prefetch: Enabled

Enable background media scan: Enabled  
 Media scan with redundancy check: Disabled

Pre-Read redundancy check: Disabled

FLASHCOPY REPOSITORY LOGICAL DRIVES-----

Number of flashcopy repositories: 0

FLASHCOPY LOGICAL DRIVES-----

Number of flashcopy logical drives: 0

MISSING LOGICAL DRIVES-----

Number of missing logical drives: 0

DRIVES-----

SUMMARY

Number of drives: 24  
 Current media type(s): Hard Disk Drive (24)  
 Current interface type(s): Serial Attached SCSI (SAS) (24)

BASIC:

ENCLOSURE PRODUCT ID	SLOT STATUS	CAPACITY	MEDIA TYPE	INTERFACE TYPE	CURRENT DATA RATE
1, 1	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 2	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 3	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 4	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 5	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 6	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps
1, 7	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps

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1, 8	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps	ST3600057SS	BA58
1, 9	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps	ST3600057SS	BA5A
1, 10	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps	ST3600057SS	BA5A
1, 11	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps	ST3600057SS	BA5A
1, 12	Optimal	558,912 GB	Hard Disk Drive	SAS	6 Gbps	ST3600057SS	BA5A
99, 1	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 2	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 3	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 4	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 5	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 6	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 7	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 8	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 9	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 10	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA59
99, 11	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58
99, 12	Optimal	279,396 GB	Hard Disk Drive	SAS	6 Gbps	ST3300657SS	BA58

DRIVE CHANNELS (Controller A):

ENCLOSURE	SLOT	PREFERRED CHANNEL	REDUNDANT CHANNEL
1, 1	1	2	
1, 2	2	1	
1, 3	1	2	
1, 4	2	1	
1, 5	1	2	
1, 6	2	1	
1, 7	1	2	
1, 8	2	1	
1, 9	1	2	
1, 10	2	1	
1, 11	1	2	
1, 12	2	1	
99, 1	1	2	
99, 2	2	1	
99, 3	1	2	
99, 4	2	1	
99, 5	1	2	
99, 6	2	1	
99, 7	1	2	
99, 8	2	1	
99, 9	1	2	
99, 10	2	1	
99, 11	1	2	
99, 12	2	1	

HOT SPARE COVERAGE:

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

Total hot spare drives: 4

Standby: 4

In use: 0

Standby drive at enclosure 99, slot 12 (SAS, 279,396 GB)

Protects the following arrays: 0

Standby drive at enclosure 99, slot 11 (SAS, 279,396 GB)

Protects the following arrays: 0

Standby drive at enclosure 1, slot 12 (SAS, 558,912 GB)

Protects the following arrays: 0, 1

Standby drive at enclosure 1, slot 11 (SAS, 558,912 GB)

Protects the following arrays: 0, 1

DETAILS

Drive at Enclosure 1, Slot 1

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:6b:2a:6f:bf:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA59  
Serial number: 6SL6Z55R0000N4040JG4  
Manufacturer: IBM-ESXS  
Date of manufacture: 11 wrzesień 2013

Drive at Enclosure 1, Slot 2

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:33:a3:e5:c7:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA59  
Serial number: 6SL0CBJG0000N132DQ1G

Manufacturer: IBM-ESXS  
Date of manufacture: 24 marzec 2011

Drive at Enclosure 1, Slot 3

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:01:f8:30:8d:72:86:83:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 6SL7X158000B4250Z94  
Manufacturer: IBM-ESXS  
Date of manufacture: 28 sierpień 2016

Drive at Enclosure 1, Slot 4

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:94:8a:2f:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps

Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 6SL2HTMS0000N2158T6K  
Manufacturer: IBM-ESXS  
Date of manufacture: 9 luty 2015

Drive at Enclosure 1, Slot 5

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:95:09:7b:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 6SL243SL0000N2076X6X  
Manufacturer: IBM-ESXS  
Date of manufacture: 14 luty 2015

Drive at Enclosure 1, Slot 6

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:02:4b:60:db:09:d5:db:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA58  
Serial number: 3SL11EHR00009102MLTM  
Manufacturer: IBM-ESXS  
Date of manufacture: 18 sierpień 2010

Drive at Enclosure 1, Slot 7

Status: Optimal  
  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:95:93:c3:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 3SL1JJHQ00009116UWHJ  
Manufacturer: IBM-ESXS  
Date of manufacture: 16 luty 2015

Drive at Enclosure 1, Slot 8

Status: Optimal  
  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:28:cd:30:3b:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA58  
Serial number: 3SL1QAJZ00009121XA5E  
Manufacturer: IBM-ESXS  
Date of manufacture: 2 styczeń 2011

Drive at Enclosure 1, Slot 9

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:96:6f:6f:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 6SL2K0AC0000N2167PVZ  
Manufacturer: IBM-ESXS  
Date of manufacture: 20 luty 2015

Drive at Enclosure 1, Slot 10

Status: Optimal  
Mode: Assigned  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:96:10:bf:00:00:00:00:00:00:00:00  
Associated array: 1

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 3SL14WQQ00009104YLFY  
Manufacturer: IBM-ESXS  
Date of manufacture: 18 luty 2015

Drive at Enclosure 1, Slot 11

Status: Optimal  
Mode: Hot spare standby  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:94:cc:b7:00:00:00:00:00:00:00  
Associated array: None

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 3SL1B63F00009109NE83  
Manufacturer: IBM-ESXS  
Date of manufacture: 11 luty 2015

Drive at Enclosure 1, Slot 12

Status: Optimal  
Mode: Hot spare standby  
Raw capacity: 558,912 GB  
Usable capacity: 558,412 GB  
World-wide identifier: 50:00:c5:00:5d:92:6a:47:00:00:00:00:00:00:00  
Associated array: None

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3600057SS  
Drive Firmware Version: BA5A  
Serial number: 3SL15H5K00009103UCW6  
Manufacturer: IBM-ESXS  
Date of manufacture: 24 styczeń 2015

Drive at Enclosure 99, Slot 1

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0c:3f:ab:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XSH10000B2170N5R  
Manufacturer: IBM-ESXS  
Date of manufacture: 8 grudzień 2011

Drive at Enclosure 99, Slot 2

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0d:f4:8b:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	2

1 1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XHGH0000B2171JCF  
Manufacturer: IBM-ESXS  
Date of manufacture: 9 grudzień 2011

Drive at Enclosure 99, Slot 3

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0c:66:3f:00:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3WLQV0000B21713YB  
Manufacturer: IBM-ESXS  
Date of manufacture: 8 grudzień 2011

Drive at Enclosure 99, Slot 4

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0d:10:af:00:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XMCM0000B2171J1V  
Manufacturer: IBM-ESXS  
Date of manufacture: 10 grudzień 2011

Drive at Enclosure 99, Slot 5

Status: Optimal  
  
Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0d:e9:33:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3Y03N0000N2173U0L  
Manufacturer: IBM-ESXS  
Date of manufacture: 9 grudzień 2011

Drive at Enclosure 99, Slot 6

Status: Optimal  
  
Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB

Załącznik Nr 2 do Umowy nr .....

World-wide identifier: 50:00:c5:00:1c:99:6e:1f:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ1W2070000N14475SK  
Manufacturer: IBM-ESXS  
Date of manufacture: 8 lipiec 2012

Drive at Enclosure 99, Slot 7

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0c:06:23:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XSJ80000B218085F  
Manufacturer: IBM-ESXS  
Date of manufacture: 10 grudzień 2011

Drive at Enclosure 99, Slot 8

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0c:5f:9b:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XWWM0000B2171CEK  
Manufacturer: IBM-ESXS  
Date of manufacture: 11 grudzień 2011

Drive at Enclosure 99, Slot 9

Status: Optimal

Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0e:27:4f:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XG9G0000N2185ZH9  
Manufacturer: IBM-ESXS  
Date of manufacture: 9 grudzień 2011

Drive at Enclosure 99, Slot 10

Status: Optimal  
Mode: Assigned  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:5f:d3:65:af:00:00:00:00:00:00:00  
Associated array: 0

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA59  
Serial number: 6SJ6VQSL0000B32210AE  
Manufacturer: IBM-ESXS  
Date of manufacture: 21 kwiecień 2013

Drive at Enclosure 99, Slot 11

Status: Optimal  
Mode: Hot spare standby  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0e:23:83:00:00:00:00:00:00:00  
Associated array: None

Port	Channel
0	1
1	2

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XH3H0000N2186902  
Manufacturer: IBM-ESXS  
Date of manufacture: 9 grudzień 2011

Drive at Enclosure 99, Slot 12

Status: Optimal  
Mode: Hot spare standby  
Raw capacity: 279,396 GB  
Usable capacity: 278,896 GB  
World-wide identifier: 50:00:c5:00:47:0e:13:e7:00:00:00:00:00:00:00  
Associated array: None

Port	Channel
0	2
1	1

Media type: Hard Disk Drive  
Interface type: Serial Attached SCSI (SAS)  
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: 6 Gbps  
Product ID: ST3300657SS  
Drive Firmware Version: BA58  
Serial number: 6SJ3XG4M0000N2185ZJ7  
Manufacturer: IBM-ESXS  
Date of manufacture: 10 grudzień 2011

DRIVE CHANNELS-----

SUMMARY

CHANNEL	PORT	STATUS
1	1,ESM A In 1,ESM A In 2,ESM A Out	Optimal
2	2,ESM B In 1,ESM B In 2,ESM B Out	Optimal

DETAILS

DRIVE CHANNEL 1

Port: 1, ESM A In 1, ESM A In 2, ESM A Out  
Status: Optimal  
Max. Rate: 6 Gbps  
Current Rate: 6 Gbps  
Rate Control: Switched

DRIVE COUNTS

Total # of attached drives: 24  
Connected to: Controller A, Port 1  
Attached drives: 12  
Drive expansion enclosure: 99 (12 drives)  
Connected to: Controller A (Left), Port ESM A In 1  
Attached drives: 12  
Drive expansion enclosure: 1 (12 drives)

CUMULATIVE ERROR COUNTS

Controller A

Baseline time set: 21.09.18 13:56:04  
Sample period (days, hh:mm:ss): 72 days, 22:22:31  
Controller detected errors: 1  
Drive detected errors: 21  
Timeout errors: 1  
Total I/O count: 387389978

Controller B

Baseline time set: 20.09.18 09:01:11  
Sample period (days, hh:mm:ss): 74 days, 03:15:51  
Controller detected errors: 95  
Drive detected errors: 58  
Timeout errors: 43  
Total I/O count: 31031698

DRIVE CHANNEL 2

Port: 2, ESM B In 1, ESM B In 2, ESM B Out  
Status: Optimal  
Max. Rate: 6 Gbps  
Current Rate: 6 Gbps  
Rate Control: Switched  
DRIVE COUNTS

Total # of attached drives: 24  
Connected to: Controller B, Port 2  
Attached drives: 12  
Drive expansion enclosure: 99 (12 drives)  
Connected to: Controller B (Right), Port ESM B In 1  
Attached drives: 12  
Drive expansion enclosure: 1 (12 drives)

CUMULATIVE ERROR COUNTS

Controller A

Baseline time set: 21.09.18 13:56:04  
Sample period (days, hh:mm:ss): 72 days, 22:22:31  
Controller detected errors: 1  
Drive detected errors: 125  
Timeout errors: 2  
Total I/O count: 314473585

Controller B

Baseline time set: 20.09.18 09:01:11  
Sample period (days, hh:mm:ss): 74 days, 03:15:51  
Controller detected errors: 3  
Drive detected errors: 36  
Timeout errors: 20  
Total I/O count: 35139510

ENCLOSURES-----

Drive Expansion Enclosure 1 Overall Component Information

Enclosure path redundancy: OK  
Current drive types: SAS  
Configuration settings version: FD 02.04 10/08/2010 MIN\_VER=01  
Part number: PN 69Y0249  
Serial number: SN SX20903454  
Vendor: VN IBM

Date of manufacture: 1 marzec 2012

ESM CRUs Detected: 2

ESM card status: Optimal  
Firmware Version: 0343  
Configuration settings version: FD 02.04 10/08/2010  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps  
Location: A (Left)  
Card communication: OK  
Trunking supported: No  
Product ID: EXP3512  
Part number: PN 69Y0189  
Serial number: SN SX20702122  
Vendor: IBM-ESXS  
Date of manufacture: 1 luty 2012

ESM card status: Optimal  
Firmware Version: 0343  
Configuration settings version: FD 02.04 10/08/2010  
Maximum data rate: 6 Gbps  
Current data rate: 6 Gbps  
Location: B (Right)  
Card communication: OK  
Trunking supported: No  
Product ID: EXP3512  
Part number: PN 69Y0189  
Serial number: SN SX13700903  
Vendor: IBM-ESXS  
Date of manufacture: 1 wrzesień 2011

Power-Fan CRUs Detected: 2

Power-fan CRU (Left) status: Optimal  
Part number: PN 69Y0201  
Serial number: SN 120905050  
Vendor: VN IBM  
Date of manufacture: 1 marzec 2012

Power-fan CRU (Right) status: Optimal  
Part number: PN 69Y0201  
Serial number: SN 120905049  
Vendor: VN IBM  
Date of manufacture: 1 marzec 2012

Power Supplies Detected: 2

Power supply status: Optimal  
Location: Left  
Part number: PN 69Y0201  
Serial number: SN 120905050  
Vendor: VN IBM  
Date of manufacture: 1 marzec 2012

Power supply status: Optimal  
Location: Right  
Part number: PN 69Y0201  
Serial number: SN 120905049  
Vendor: VN IBM  
Date of manufacture: 1 marzec 2012

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/Drive Expansion Enclosure 99 Overall Component Information

Enclosure path redundancy: OK  
Current drive types: SAS  
Part number: PN 69Y0249  
Serial number: SN SX14502637  
Vendor: VN IBM  
Date of manufacture: 1 listopad 2011

Batteries Detected: 2

Battery status: Optimal  
Location: Controller A  
Age: 2 496 days  
Days until replacement: Not applicable  
Last learn cycle: 4 listopad 2018  
Next learn cycle: 30 grudzień 2018  
Weeks between learn cycles: 8  
Part number: PN 69Y2926  
Serial number: SN SU13993329A1  
Vendor: VN IBM  
Date of manufacture: 1 wrzesień 2011

Battery status: Optimal  
Location: Controller B  
Age: 2 496 days  
Days until replacement: Not applicable  
Last learn cycle: 4 listopad 2018  
Next learn cycle: 30 grudzień 2018  
Weeks between learn cycles: 8  
Part number: PN 69Y2926  
Serial number: SN SU13993330A1  
Vendor: VN IBM  
Date of manufacture: 1 wrzesień 2011

SFPs Detected: 2

SFP status: Optimal  
Attached to: Host-side of controller A  
Location: Host Card 1, Channel 6  
Supported data rate(s): 2 Gbps, 4 Gbps, 8 Gbps  
Link length: Short  
Connector: LC  
Transmitter type: Shortwave Laser w/o OFC  
Transmission media: TM Multi-mode 62.5m(M6)  
IEEE company ID: 00 90 65  
Revision: A  
Part number: FTLF8528P2BCV-ID  
Serial number: YH10RVB8300M  
Vendor: IBM-49Y4123  
Date of manufacture: 3 sierpień 2011

SFP status: Optimal  
Attached to: Host-side of controller B  
Location: Host Card 2, Channel 3  
Supported data rate(s): 2 Gbps, 4 Gbps, 8 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: PLRXPLVCSH4931  
Serial number: YK10ADBA64J9  
Vendor: IBM-49Y4123  
Date of manufacture: 9 październik 2011

Power-Fan CRUs Detected: 2

Power-fan CRU (Left) status: Optimal  
Part number: PN 69Y0201  
Serial number: SN 112904435  
Vendor: VN IBM  
Date of manufacture: 1 lipiec 2011

Power-fan CRU (Right) status: Optimal  
Part number: PN 69Y0201  
Serial number: SN 112904326  
Vendor: VN IBM  
Date of manufacture: 1 lipiec 2011

Power Supplies Detected: 2

Power supply status: Optimal  
Location: Left  
Part number: PN 69Y0201  
Serial number: SN 112904435  
Vendor: VN IBM  
Date of manufacture: 1 lipiec 2011

Power supply status: Optimal  
Location: Right  
Part number: PN 69Y0201  
Serial number: SN 112904326

Vendor: VN IBM  
Date of manufacture: 1 lipiec 2011  
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: 6

Temperature sensor status: Optimal  
Location: Controller A, Slot 1

Temperature sensor status: Optimal  
Location: Controller A, Slot 2

Temperature sensor status: Optimal  
Location: Controller B, Slot 1

Temperature sensor status: Optimal  
Location: Controller B, Slot 2

Temperature sensor status: Optimal  
Location: Power-fan CRU (Left)

Temperature sensor status: Optimal  
Location: Power-fan CRU (Right)

MAPPINGS (Storage Partitioning - Enabled (1 of 4 used))-----

Logical Drive Name	LUN	Controller	Accessible by	Logical Drive status
Access Logical Drive	31	A,B	Default Group	Optimal
CDBD_SSQUEUE	1	B	Host CRBD_ZEFIR	Optimal
CRBD_DANE	0	A	Host CRBD_ZEFIR	Optimal
CRBD_DANE2	2	A	Host CRBD_ZEFIR	Optimal

TOPOLOGY DEFINITIONS

STORAGE SUBSYSTEM  
Default type: AIX  
  
Default Group

Host Group: CRBD  
 Host: CRBD\_ZEFIR  
 Host type: AIX  
 Interface type: Fibre Channel  
 Host port identifier: 10:00:00:00:c9:78:4a:f7  
 Alias: CRBD\_ZEFIR\_P2  
 Host port identifier: 10:00:00:00:c9:71:04:65  
 Alias: CRBD\_ZEFIR\_P1

NVSRAM HOST TYPE DEFINITIONS

NOTE: The following indexes are not used: 21 - 31

HOST TYPE	ADT STATUS	ASSOCIATED INDEX
AIX	Disabled	6 (Default)
AIX (with Veritas DMP)	Enabled	4
Base	Disabled	0
HP-UX	Enabled	7
HPXTPGS	Disabled	17
IBM TS SAN VCE	Enabled	12
IBM i	Disabled	19
Irix	Disabled	10
LNXAVT	Enabled	5
LNXCLUSTER	Disabled	13
Linux	Disabled	18
MacOS	Disabled	1
Netware Failover	Disabled	11
Onstor	Enabled	20
Solaris (with Veritas DMP)	Enabled	14
Solaris (with or without MPXIO)	Disabled	8
VMWARE	Disabled	16
Windows Server 2003/Server 2008 Clustered	Disabled	3
Windows Server 2003/Server 2008 Clustered (supports DMP)	Enabled	15
Windows Server 2003/Server 2008 Non-Clustered	Disabled	2
Windows Server 2003/Server 2008 Non-Clustered (supports DMP)	Enabled	9