

DZP.261.90.2024.MJ

**WYKONAWCY**  
*strona postępowania***W Y J A Ś N I E N I E**  
**treści zapytania ofertowego**

Działając w imieniu i na rzecz Centrum Nauki Kopernik informuję, iż w postępowaniu o udzielenie zamówienia publicznego prowadzonym z pominięciem przepisów ustawy Prawo zamówień publicznych w trybie zapytania ofertowego na *usługę wsparcia dla macierzy NetApp na potrzeby Centrum Nauki Kopernik* od wykonawców ubiegających się o udzielenie zamówienia wpłynął wniosek o wyjaśnienie treści zapytania ofertowego.

Zgodnie z rozdziałem V pkt. 4 zapytania ofertowego, zamawiający przekazuje wykonawcom treść pytania wraz z odpowiedzią.

**PYTANIE 1**

W celu przygotowania oferty niezbędne są dodatkowe informacje:

Proszę o udostępnienie informacji o konfiguracji dyskowej (rodzaj oraz ilość zainstalowanych aktualnie dysków) z osobna dla każdej macierzy.

**ODPOWIEDŹ:**

Poniżej informacja o konfiguracji dyskowej dla każdej macierzy:

**Macierz 1**

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nas-cnka> sysconfig -a
NetApp Release 8.1.4P8 7-Mode: Wed Feb  4 02:08:52 PST 2015
System ID: 1788770451 (nas-cnka); partner ID: 1889451455 (nas-cnkb)
System Serial Number: 650000012442 (nas-cnka)
System Rev: B1
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Full Connectivity
slot 0: System Board 1.7 GHz (System Board XIX B1)
  Model Name:          FAS2240-2
  Part Number:         111-00846
  Revision:            B1
  Serial Number:       5009995923
  BIOS version:        8.3.0
  Loader version:      4.3
  Processors:          4
  Processor ID:        0x106e4
  Microcode Version:   0x3
  Processor type:      Intel(R) Xeon(R) CPU           C3528  @ 1.73GHz
  Memory Size:         6144 MB
  Memory Attributes:   Hoisting
                      Normal ECC
  NVMEM Size:         768 MB of Main Memory Used
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CMOS RAM Status:    OK
Controller:        A
Service Processor  Status: Online
Firmware Version:  2.2.5
Mgmt MAC Address:  00:A0:98:1A:5D:7C
Ethernet Link:     up, 100Mb, full duplex, auto-neg complete
Using DHCP:        no
IPv4 configuration:
  IP Address:      192.168.103.211
  Netmask:         255.255.255.0
  Gateway:         192.168.103.1
IPv6 configuration:  Disabled
slot 0: Internal 10/100 Ethernet Controller
  e0M MAC Address: 00:a0:98:1a:5d:7b (auto-100tx-fd-up)
  e0P MAC Address: 00:a0:98:1a:5d:7a (auto-100tx-fd-up)
  Device Type:    Rev 0
    memory mapped I/O base 0x00000000dfa00000, size 0x20000
    I/O base 0x00000000000003000, size 0x20
    memory mapped I/O base 0x00000000dfa20000, size 0x4000
    memory mapped I/O base 0x00000000dfb20000, size 0x20000
    I/O base 0x00000000000004000, size 0x20
    memory mapped I/O base 0x00000000dfb00000, size 0x4000
slot 0: Quad Gigabit Ethernet Controller 82580
  e0a MAC Address: 00:a0:98:1a:5d:76 (auto-unknown-down)
  e0b MAC Address: 00:a0:98:1a:5d:77 (auto-1000t-fd-up)
  e0c MAC Address: 00:a0:98:1a:5d:78 (auto-1000t-fd-up)
  e0d MAC Address: 00:a0:98:1a:5d:79 (auto-unknown-down)
  Device Type:    150E
    memory mapped I/O base 0x00000000df700000, size 0x80000
    I/O base 0x00000000000002040, size 0x20
    memory mapped I/O base 0x00000000df808000, size 0x4000
    memory mapped I/O base 0x00000000df780000, size 0x80000
    I/O base 0x00000000000002060, size 0x20
    memory mapped I/O base 0x00000000df80c000, size 0x4000
    memory mapped I/O base 0x00000000df600000, size 0x80000
    I/O base 0x00000000000002000, size 0x20
    memory mapped I/O base 0x00000000df800000, size 0x4000
    memory mapped I/O base 0x00000000df680000, size 0x80000
    I/O base 0x00000000000002020, size 0x20
    memory mapped I/O base 0x00000000df804000, size 0x4000
slot 0: Interconnect HBA: Mellanox IB MT25204
  GUID: 0x100000a0981a5d76      LID: 0x4      Remote LID: 0x5
  Firmware rev:      1.0.800
  Hardware rev:      160
  Command rev:       1
  Cluster Interconnect Port: 4x
    memory mapped I/O base 0xdf400000, size 0x100000
    prefetchable memory base 0xde800000, size 0x800000
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C, SAS, <UP>)
  Firmware rev:      01.12.09.00
  Base WWN:          5:00a098:0008a62:70
  Phy State:         [0] Enabled, 6.0 Gb/s
                   [1] Enabled, 6.0 Gb/s
                   [2] Enabled, 6.0 Gb/s
                   [3] Enabled, 6.0 Gb/s
00.0 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVKK5D)
00.1 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGSJ76D)
00.2 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGS9WZD)
00.3 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVTDVD)
00.4 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVRTED)
00.5 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW6EDD)
00.6 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW75YD)
00.7 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW6PJD)
00.8 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGS5LWD)
00.9 : NETAPP      X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW75DD)
00.10: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGV0M0D)
00.11: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPHW1SLB)
00.12: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW8P8D)
00.13: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGUMZ5D)
00.14: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVGSDD)
00.15: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW83JD)
00.16: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGUZB4D)
00.17: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGPMB3D)
00.18: NETAPP     X422_SLTNG600A10 NA02 560.0GB 520B/sect (S0M28D7W)
00.19: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVHT9D)
00.20: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGW0MDD)
00.21: NETAPP     X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVTYND)

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00.22: NETAPP X422_TAL13600A10 NA01 560.0GB 520B/sect (7470A0M6FUZ6)
00.23: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGUZYWD)
01.0 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB26KA)
01.1 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAU53A)
01.2 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASLHA)
01.3 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASL0A)
01.4 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAX28A)
01.5 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAXTLA)
01.6 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB2PYA)
01.7 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASVHA)
01.8 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB1JKA)
01.9 : NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB3ZYA)
01.10: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJA43GA)
01.11: NETAPP X306_HJUPIO2TSSM 4321 1695.4GB 512B/sect (BFGYU44T)
01.12: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB34BA)
01.13: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAXPYA)
01.14: NETAPP X306_SMSKP02TSSM NA01 1695.4GB 512B/sect (Z1P5LP03)
01.15: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAST9A)
01.16: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJB0TNA)
01.17: NETAPP X306_HJUPIO2TSSM NA06 1695.4GB 512B/sect (B9GT86UF)
01.18: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASWDA)
01.19: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASVHA)
01.20: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFHRP01A)
01.21: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAKHNA)
01.22: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAXTEA)
01.23: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASUJA)
02.0 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9MP0A)
02.1 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WUYA)
02.2 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ84PSA)
02.3 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9MNGA)
02.4 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9VYYA)
02.5 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WVKA)
02.6 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9X55A)
02.7 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9XHAA)
02.8 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ8A9KA)
02.9 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WEUA)
02.10: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9W4EA)
02.11: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WGVA)
02.12: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WJJA)
02.13: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9W4JA)
02.14: NETAPP X308_HMARK03TSSM NA04 2538.5GB 512B/sect (YXG7UD3G)
02.15: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9W83A)
02.16: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ8TT7A)
02.17: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ8GJZA)
02.18: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WTZA)
02.19: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WYJA)
02.20: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9S21A)
02.21: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9VYWA)
02.22: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WK1A)
02.23: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFJ9WKNA)
Shelf 0: IOM6E Firmware rev. IOM6E A: 0172 IOM6E B: 0172
Shelf 1: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
Shelf 2: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
slot 0: SAS Host Adapter 0b (PMC-Sierra PM8001 rev. C, SAS, <UP>)
Firmware rev: 01.12.09.00
Base WWN: 5:00a098:0008a62:74
Phy State: [4] Enabled, 3.0 Gb/s
           [5] Enabled, 3.0 Gb/s
           [6] Enabled, 3.0 Gb/s
           [7] Enabled, 3.0 Gb/s
QSFP Vendor: Molex Inc.
QSFP Part Number: 112-00178+A0
QSFP Type: Passive Copper 5m ID:00
QSFP Serial Number: 233521200
00.0 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGVKK5D)
00.1 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGSJ76D)
00.2 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGS9W2D)
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00.13: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PZGUMZ5D)
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01.18: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASWDA)
01.19: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASVHA)
01.20: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFHRP01A)
01.21: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJAKHNA)
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01.23: NETAPP X306_HMARK02TSSM NA04 1695.4GB 512B/sect (YFJASUJA)
02.0 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9MP0A)
02.1 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WUYA)
02.2 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ84PSA)
02.3 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9MNGA)
02.4 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9VYYA)
02.5 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WVKA)
02.6 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9X55A)
02.7 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9XHAA)
02.8 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ8A9KA)
02.9 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WEUA)
02.10: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9W4EA)
02.11: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WCV A)
02.12: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WJJA)
02.13: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9W4JA)
02.14: NETAPP X308_HMARK03TSSM NA04 2538.5GB 512B/sect (YXG7UD3G)
02.15: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9W83A)
02.16: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ8TT7A)
02.17: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ8GJZA)
02.18: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WTZA)
02.19: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WYJA)
02.20: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9SZ1A)
02.21: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9VYWA)
02.22: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WK1A)
02.23: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGJ9WKNA)
Shelf 0: IOM6E Firmware rev. IOM6E A: 0172 IOM6E B: 0172
Shelf 1: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
Shelf 2: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
memory mapped I/O base 0xdf530000, size 0x10000
memory mapped I/O base 0xdf520000, size 0x10000
memory mapped I/O base 0x0000000df510000, size 0x10000
memory mapped I/O base 0x0000000df500000, size 0x10000
slot 0: Intel ICH USB EHCI Adapter u0a (0xdf101000)
boot0 Micron Technology 0x655, class 0/0, rev 2.00/11.10, addr 2 1936MB
512B/sect (0FF0022700154558)
memory-mapped I/O base 0xdf101000, size 0x400
slot 1: Fibre Channel Target Host Adapter 1a
(QLogic 2532 (2562) rev. 2, <ONLINE>)
Board Name: 111-00811+A2
Serial Number: 5013037909
Firmware rev: 5.5.130
Host Port Addr: 010d00
FC Nodename: 50:0a:09:80:80:be:bd:bf (500a098080bebdbf)

```

```
FC Portname:      50:0a:09:81:80:be:bd:bf (500a098180bebdbf)
Connection:      PTP, Fabric
Switch Port:     SW-SAN-EMC2:13
SFP Vendor Name: AVAGO
SFP Vendor P/N:  AFBR-57D7APZ-NA1
SFP Vendor Rev:
SFP Serial No.:  AA1150AE0XL
SFP Connector:   LC
SFP Capabilities: 2, 4, 8 Gbit/Sec
                  I/O base 0x00000000ffffff00, size 0x100
                  memory mapped I/O base 0xdf900000, size 0x4000
slot 1: Fibre Channel Target Host Adapter 1b
(QLogic 2532 (2562) rev. 2, <ONLINE>)
Board Name:      111-00811+A2
Serial Number:   5013037909
Firmware rev:    5.5.130
Host Port Addr:  010d00
FC Nodename:     50:0a:09:80:80:be:bd:bf (500a098080bebdbf)
FC Portname:     50:0a:09:82:80:be:bd:bf (500a098280bebdbf)
Connection:      PTP, Fabric
Switch Port:     SW-SAN-EMC1:13
SFP Vendor Name: AVAGO
SFP Vendor P/N:  AFBR-57D7APZ-NA1
SFP Vendor Rev:
SFP Serial No.:  AA1150AE0M8
SFP Connector:   LC
SFP Capabilities: 2, 4, 8 Gbit/Sec
                  I/O base 0x00000000ffffff00, size 0x100
                  memory mapped I/O base 0xdf904000, size 0x4000
```

## Macierz 2

```
nas-plaA> sysconfig -a
NetApp Release 8.1.4 7-Mode: Wed Nov 20 16:16:17 PST 2013
System ID: 1890785475 (nas-plaA); partner ID: 1891102607 (nas-plaB)
System Serial Number: 650000071278 (nas-plaA)
System Rev: D0
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Full Connectivity
slot 0: System Board 1.7 GHz (System Board XIX D0)
  Model Name: FAS2240-2
  Part Number: 111-00846
  Revision: D0
  Serial Number: 9406978243
  BIOS version: 8.2.0
  Loader version: 4.2
  Processors: 4
  Processor ID: 0x106e4
  Microcode Version: 0xffff0002
  Processor type: Intel(R) Xeon(R) CPU C3528 @ 1.73GHz
  Memory Size: 6144 MB
  Memory Attributes: Hoisting
                    Normal ECC
  NVMEM Size: 768 MB of Main Memory Used
  CMOS RAM Status: OK
  Controller: A
Service Processor Status: Online
  Firmware Version: 2.1.3
  Mgmt MAC Address: 00:A0:98:37:4B:52
  Ethernet Link: up, 100Mb, full duplex, auto-neg complete
  Using DHCP: no
IPv4 configuration:
  IP Address: 192.168.103.213
  Netmask: 255.255.255.0
  Gateway: 192.168.103.1
IPv6 configuration: Disabled
slot 0: Internal 10/100 Ethernet Controller
  e0M MAC Address: 00:a0:98:37:4b:51 (auto-100tx-fd-up)
  e0P MAC Address: 00:a0:98:37:4b:50 (auto-100tx-fd-up)
  Device Type: Rev 0
                memory mapped I/O base 0x00000000dfb20000, size 0x20000
                I/O base 0x0000000000003000, size 0x20
                memory mapped I/O base 0x00000000dfb00000, size 0x4000
                memory mapped I/O base 0x00000000dfc00000, size 0x20000
                I/O base 0x0000000000004000, size 0x20
                memory mapped I/O base 0x00000000dfc20000, size 0x4000
slot 0: Quad Gigabit Ethernet Controller 82580
  e0a MAC Address: 00:a0:98:37:4b:4c (auto-1000t-fd-up)
  e0b MAC Address: 00:a0:98:37:4b:4d (auto-1000t-fd-up)
  e0c MAC Address: 00:a0:98:37:4b:4e (auto-1000t-fd-up)
  e0d MAC Address: 00:a0:98:37:4b:4f (auto-1000t-fd-up)
  Device Type: 150E
                memory mapped I/O base 0x00000000df900000, size 0x80000
                I/O base 0x0000000000002040, size 0x20
                memory mapped I/O base 0x00000000dfa08000, size 0x4000
                memory mapped I/O base 0x00000000df980000, size 0x80000
                I/O base 0x0000000000002060, size 0x20
                memory mapped I/O base 0x00000000dfa0c000, size 0x4000
                memory mapped I/O base 0x00000000df800000, size 0x80000
                I/O base 0x0000000000002000, size 0x20
                memory mapped I/O base 0x00000000dfa00000, size 0x4000
                memory mapped I/O base 0x00000000df880000, size 0x80000
                I/O base 0x0000000000002020, size 0x20
                memory mapped I/O base 0x00000000dfa04000, size 0x4000
slot 0: Interconnect HBA: Mellanox IB MT25204
  GUID: 0x100000a098374b4c LID: 0x4 Remote LID: 0x5
  Firmware rev: 1.0.800
  Hardware rev: 160
  Command rev: 1
  Cluster Interconnect Port: 4x
                memory mapped I/O base 0xdf400000, size 0x100000
                prefetchable memory base 0xde800000, size 0x800000
slot 0: SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C, SAS, <UP>)
  Firmware rev: 01.11.07.00
  Base WWN: 5:00a098:0011258:b0
  Phy State: [0] Enabled, 6.0 Gb/s
```

[1] Enabled, 6.0 Gb/s  
[2] Enabled, 6.0 Gb/s  
[3] Enabled, 6.0 Gb/s

00.0	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPWVMVGD)
00.1	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2BSBD)
00.2	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2G53D)
00.3	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPWXHT1D)
00.4	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPWXX2TD)
00.5	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPHZNJZB)
00.6	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2E2KD)
00.7	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPWXHW7D)
00.8	:	NETAPP	X422_HCOBD600A10	NA05	560.0GB	520B/sect	(PVGVE47B)
00.9	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2AG5D)
00.10	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPG6AWUB)
00.11	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2BL8D)
00.12	:	NETAPP	X422_TAL13600A10	NA01	560.0GB	520B/sect	(7470A08FFUZ6)
00.13	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2EBYD)
00.14	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2EMPD)
00.15	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX227WD)
00.16	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX29SHD)
00.17	:	NETAPP	X422_SLTNG600A10	NA02	560.0GB	520B/sect	(SOM0N4SQ)
00.18	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX237UD)
00.19	:	NETAPP	X422_HCOBE600A10	NA01	560.0GB	520B/sect	(KWG0GK7F)
00.20	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX21MND)
00.21	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2ABMD)
00.22	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX29SBD)
00.23	:	NETAPP	X422_HCOBD600A10	NA03	560.0GB	520B/sect	(PPX2AM7D)
02.0	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YGKTPV3G)
02.1	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YGKTVXKG)
02.2	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YGKTVY9G)
02.3	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKSRUGG)
02.4	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYMX8G)
02.5	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYHM7G)
02.6	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYHRDG)
02.7	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYLLDG)
02.8	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYKYKG)
02.9	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYN30G)
02.10	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYN2HG)
02.11	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYELMG)
02.12	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYA5LG)
02.13	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYA2SG)
02.14	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYMXAG)
02.15	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYN36G)
02.16	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYMXHG)
02.17	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYMWSG)
02.18	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYMXEG)
02.19	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYN39G)
02.20	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYFY2G)
02.21	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYEWJG)
02.22	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYKVXG)
02.23	:	NETAPP	X306_HMARK02TSSA	NA02	1695.4GB	512B/sect	(YFKYA5RG)
21.0	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WYQF0000N241J56L)
21.1	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3VE460000N240EGJW)
21.2	:	NETAPP	X412_HVIPC560A15	NA04	560.0GB	520B/sect	(J9VVTN4TL)
21.3	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3X93C0000B24203L8)
21.4	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WYKQ0000B24118RU)
21.5	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3XAVX0000B24117V7)
21.6	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3XC1H0000N241BTSM)
21.7	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3XC8R0000N20952ZS)
21.8	:	NETAPP	X412_HDCBF560A15	NA00	560.0GB	520B/sect	(ODGW4JXH)
21.9	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WJ600000N2417NZW)
21.10	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WX0E0000N241EYV8)
21.11	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3V15K0000B2410H7D)
21.12	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WYNE0000N241J5Q4)
21.13	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3X8N70000B2411SBB)
21.14	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3VEBN0000N24001N0)
21.15	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WXEA0000N240JWWU)
21.16	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3VJMH0000N23952KK)
21.17	:	NETAPP	X412_HVIPC560A15	NA04	560.0GB	520B/sect	(J9WVBSAL)
21.18	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3X8ZR0000B2411SEJ)
21.19	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3XC0N0000N238J3X9)
21.20	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3VC7V0000N23073ML)
21.21	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3WXS20000N241J5KT)
21.22	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL3XC2B0000N208E7CW)
21.23	:	NETAPP	X412_S15K7560A15	NA08	560.0GB	520B/sect	(6SL9J1PH0000N518C904)
Shelf	0:	IOM6E	Firmware rev. IOM6E A: 0172	IOM6E B: 0172			
Shelf	2:	IOM6	Firmware rev. IOM6 A: 0191	IOM6 B: 0191			

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Shelf 21: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
slot 0: SAS Host Adapter 0b (PMC-Sierra PM8001 rev. C, SAS, <UP>)
Firmware rev: 01.11.07.00
Base WWN: 5:00a098:0011258:b4
Phy State: [4] Enabled, 6.0 Gb/s
           [5] Enabled, 6.0 Gb/s
           [6] Enabled, 6.0 Gb/s
           [7] Enabled, 6.0 Gb/s

QSFP Vendor: Molex Inc.
QSFP Part Number: 112-00178+A0
QSFP Type: Passive Copper 5m ID:00
QSFP Serial Number: 233521255
00.0 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPWVMVGD)
00.1 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2BSBD)
00.2 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2G53D)
00.3 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPWXHT1D)
00.4 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPWXX2TD)
00.5 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPHZNJZB)
00.6 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2E2KD)
00.7 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPWXHW7D)
00.8 : NETAPP X422_HCOBD600A10 NA05 560.0GB 520B/sect (PVGVE47B)
00.9 : NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2AG5D)
00.10: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPG6AWUB)
00.11: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2BL8D)
00.12: NETAPP X422_TAL13600A10 NA01 560.0GB 520B/sect (7470A08PFUZ6)
00.13: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2EBYD)
00.14: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2EMPD)
00.15: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX227WD)
00.16: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX29SHD)
00.17: NETAPP X422_SLTNG600A10 NA02 560.0GB 520B/sect (SOM0N4SQ)
00.18: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX237UD)
00.19: NETAPP X422_HCOBE600A10 NA01 560.0GB 520B/sect (KWG0GK7F)
00.20: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX21MND)
00.21: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2ABMD)
00.22: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX29SBD)
00.23: NETAPP X422_HCOBD600A10 NA03 560.0GB 520B/sect (PPX2AM7D)
02.0 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGKTPV3G)
02.1 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGKTVXKG)
02.2 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYTV9G)
02.3 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YGKSRUGG)
02.4 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYMX8G)
02.5 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYHM7G)
02.6 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYHRDG)
02.7 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYLLDG)
02.8 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYKYKG)
02.9 : NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYN30G)
02.10: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYN2HG)
02.11: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYELMG)
02.12: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYA5LG)
02.13: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYA2SG)
02.14: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYMXAG)
02.15: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYN36G)
02.16: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYMXHG)
02.17: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYMW5G)
02.18: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYMXEG)
02.19: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYN39G)
02.20: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKY2Y2G)
02.21: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYEWJG)
02.22: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYKXVG)
02.23: NETAPP X306_HMARK02TSSA NA02 1695.4GB 512B/sect (YFKYA5RG)
21.0 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WYQF0000N241J56L)
21.1 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3VE460000N240EGJW)
21.2 : NETAPP X412_HVIPPC560A15 NA04 560.0GB 520B/sect (J9VTN4TL)
21.3 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3X93C0000B24203L8)
21.4 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WYKQ0000B24118RU)
21.5 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3XAVX0000B24117V7)
21.6 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3XC1H0000N241BTSM)
21.7 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3XC8R0000N20952ZS)
21.8 : NETAPP X412_HDCBF560A15 NA00 560.0GB 520B/sect (0DGW4JXH)
21.9 : NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WJ600000N2417NZW)
21.10: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WX0E0000N241EY8)
21.11: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3V1SK0000B2410H7D)
21.12: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WYNE0000N241J5Q4)
21.13: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3X8N70000B2411SBB)
21.14: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3VEBN0000N24001N0)
21.15: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WXEA0000N240JWWU)
21.16: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3VJMH0000N23952KK)

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21.17: NETAPP X412_HVIPC560A15 NA04 560.0GB 520B/sect (J9WVBSAL)
21.18: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3X8ZR0000B2411SEJ)
21.19: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3XC0N0000N238J3X9)
21.20: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3VC7V0000N23073ML)
21.21: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3WXS20000N241J5KT)
21.22: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL3XC2B0000N208E7CW)
21.23: NETAPP X412_S15K7560A15 NA08 560.0GB 520B/sect (6SL9J1PH0000N518C904)
Shelf 0: IOM6E Firmware rev. IOM6E A: 0172 IOM6E B: 0172
Shelf 2: IOM6 Firmware rev. IOM6 A: 0191 IOM6 B: 0191
Shelf 21: IOM3 Firmware rev. IOM3 A: 0212 IOM3 B: 0212
memory mapped I/O base 0xdf530000, size 0x10000
memory mapped I/O base 0xdf520000, size 0x10000
memory mapped I/O base 0x00000000df510000, size 0x10000
memory mapped I/O base 0x00000000df500000, size 0x10000
slot 0: Intel ICH USB EHCI Adapter u0a (0xdf101000)
boot0 Micron Technology 0x655, class 0/0, rev 2.00/11.10, addr 2 1936MB
512B/sect (B9F0022700081139)
memory-mapped I/O base 0xdf101000, size 0x400
slot 1: Dual 10 Gigabit Ethernet Controller IX1-SFP+
e1a MAC Address: 00:a0:98:30:14:36 (auto-unknown-down)
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLX8571D3BCL
SFP Serial Number: ANJ11A3
e1b MAC Address: 00:a0:98:30:14:37 (auto-unknown-down)
SFP Vendor: FINISAR CORP.
SFP Part Number: FTLX8571D3BCL
SFP Serial Number: ANL187Z
Device Type: 82599, PBA 400900-000
Serial Number: 5500403049
Part Number: 111-00810
Revision Number: A2
memory mapped I/O base 0xdf600000, size 0x80000
I/O base 0x00000000ffffffe0, size 0x20
memory mapped I/O base 0xdf700000, size 0x4000
memory mapped I/O base 0xdf680000, size 0x80000
I/O base 0x00000000ffffffe0, size 0x20
memory mapped I/O base 0xdf704000, size 0x4000

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Powyższe informacje stanowią integralną część dokumentacji postępowania i od momentu ich udostępnienia wykonawcom – opublikowania na stronie internetowej niniejszego postępowania, są wiążące dla wszystkich wykonawców ubiegających się o udzielenie zamówienia.