



# Viewing Server Properties

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## Viewing Server Properties

### Before You Begin

The server must be powered on, or the properties will not display.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show detail</b>	Displays server properties.

This example displays server properties:

```
Server# scope chassis
Server /chassis # show detail
Chassis:
  Power: on
  Power Button: unlocked
```

```

IOS Lockout: unlocked
Serial Number: FOC16161F1P
Product Name: E160D
PID : UCS-E160D-M1/K9
UUID: 1255F7F0-9F17-0000-E312-94B74999D9E7
Description

```

## Viewing CPU Properties

### Before You Begin

The server must be powered on, or the properties will not display.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show cpu [detail]</b>	Displays CPU properties.

This example displays CPU properties:

```

Server# scope chassis
Server /chassis # show cpu
Name          Cores    Version
-----
CPU1          4          Intel(R) Xeon(R) CPU           E5-2418L 0 @ 2.00GHz
Server /chassis #

```

## Viewing Memory Properties

### Before You Begin

The server must be powered on, or the properties will not display.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show dimm [detail]</b>	Displays memory properties.
<b>Step 3</b>	Server /chassis # <b>show dimm-summary</b>	Displays DIMM summary information.

This example displays memory properties:

```

Server# scope chassis
Server /chassis # show dimm

```

Name	Capacity	Channel Speed (MHz)	Channel Type
Node0_Dimm0	8192 MB	1333	DDR3
Node0_Dimm1	8192 MB	1333	DDR3
Node0_Dimm2	8192 MB	1333	DDR3

This example displays detailed information about memory properties:

```
Server# scope chassis
Server /chassis # show dimm detail
Name Node0_Dimm0:
Capacity: 8192 MB
Channel Speed (MHz): 1333
Channel Type: DDR3
Memory Type Detail: Registered (Buffered)
Bank Locator: Node0_Bank0
Visibility: Yes
Operability: Operable
Manufacturer: Samsung
Part Number: M393B1K70DH0-
Serial Number: 86A7D514
Asset Tag: Dimm0_AssetTag
Data Width: 64 bits
Name Node0_Dimm1:
Capacity: 8192 MB
```

This example displays DIMM summary information:

```
Server# scope chassis
Server /chassis # show dimm-summary
DIMM Summary:
Memory Speed: 1334 MHz
Total Memory: 24576 MB
Effective Memory: 24576 MB
Redundant Memory: 0 MB
Failed Memory: 0 MB
Ignored Memory: 0 MB
Number of Ignored Dimms: 0
Number of Failed Dimms: 0
Memory RAS possible: Reserved
Memory Configuration: Maximum Performance
```

## Viewing Power Supply Properties

### Before You Begin

The server must be powered on, or the properties will not display.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope power-cap</b>	Enters the power cap command mode.
<b>Step 2</b>	Server /power-cap # <b>show [detail]</b>	Displays the server power consumption information.

This example displays the detailed power supply properties for a single-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
  Cur Consumption (W): 36.10 W
  Max Consumption (W): 075
  Min Consumption (W): 36.10 W
Server /power-cap #
```

This example displays the detailed power supply properties for a double-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
  Cur Consumption (W): 43.1 W
  Max Consumption (W): 160
  Min Consumption (W): 43.1 W
Server /power-cap #
```

## Viewing Storage Properties

### Viewing Storage Adapter Properties

#### Before You Begin

The server must be powered on, or the properties will not display.

#### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters the chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show storageadapter</b> [ <i>slot</i> ] [ <b>detail</b> ]	Displays installed storage cards. <b>Note</b> This command displays all MegaRAID controllers on the server that can be managed through CIMC. If an installed controller or storage device is not displayed, then it cannot be managed through CIMC.
<b>Step 3</b>	Server /chassis # <b>scope storageadapter</b> <b>SLOT-<i>slot-number</i></b>	Enters command mode for an installed storage card.
<b>Step 4</b>	Server /chassis/storageadapter # <b>show capabilities</b> [ <b>detail</b> ]	Displays RAID levels supported by the storage card.
<b>Step 5</b>	Server /chassis/storageadapter # <b>show error-counters</b> [ <b>detail</b> ]	Displays number of errors seen by the storage card.
<b>Step 6</b>	Server /chassis/storageadapter # <b>show firmware-versions</b> [ <b>detail</b> ]	Displays firmware version information for the storage card.

	Command or Action	Purpose
<b>Step 7</b>	Server /chassis/storageadapter # <b>show hw-config [detail]</b>	Displays hardware information for the storage card.
<b>Step 8</b>	Server /chassis/storageadapter # <b>show pci-info [detail]</b>	Displays adapter PCI information for the storage card.
<b>Step 9</b>	Server /chassis/storageadapter # <b>show running-firmware-images [detail]</b>	Displays running firmware information for the storage card.
<b>Step 10</b>	Server /chassis/storageadapter # <b>show settings [detail]</b>	Displays adapter firmware settings for the storage card.

This example displays storage properties:

```
Server# scope chassis
Server /chassis # show storageadapter

Controller Product Name                Firmware Package Build Product ID    Cache Memory
Size
-----
SLOT-5      LSI MegaRAID SAS 2004 ROMB  20.10.1-0092                LSI Logic      0 MB
```

## Viewing Physical Drive Properties

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters the chassis command mode.
<b>Step 2</b>	Server /chassis # <b>scope storageadapter SLOT-slot-number</b>	Enters command mode for an installed storage card.
<b>Step 3</b>	Server /chassis/storageadapter # <b>show physical-drive [slot-number] [detail]</b>	Displays physical drive information for the storage card.
<b>Step 4</b>	Server /chassis/storageadapter # <b>show physical-drive-count [detail]</b>	Displays the number of physical drives on the storage card.
<b>Step 5</b>	Server /chassis/storageadapter # <b>scope physical-drive slot-number</b>	Enters command mode for the specified physical drive.
<b>Step 6</b>	Server /chassis/storageadapter/physical-drive # <b>show general [detail]</b>	Displays general information about the specified physical drive.

	Command or Action	Purpose
<b>Step 7</b>	Server /chassis/storageadapter/physical-drive # <b>show security [detail]</b>	Displays inquiry data about the specified physical drive.
<b>Step 8</b>	Server /chassis/storageadapter/physical-drive # <b>show status [detail]</b>	Displays status information about the specified physical drive.

This example displays general information about the physical drive number 1 on the storage card named SLOT-5:

```
Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show general
Slot Number 1:
  Controller: SLOT-5
  Enclosure Device ID: 64
  Device ID: 3
  Sequence Number: 2
  Media Error Count: 0
  Other Error Count: 12
  Predictive Failure Count: 0
  Link Speed: 6.0 Gb/s
  Interface Type: SATA
  Media Type: HDD
  Block Size: 512
  Block Count: 1953525168
  Raw Size: 953869 MB
  Non Coerced Size: 953357 MB
  Coerced Size: 952720 MB
  SAS Address 0: 4433221100000000
  SAS Address 1:
  Connected Port 0:
  Connected Port 1:
  Connected Port 2:
  Connected Port 3:
  Connected Port 4:
```

This example provides status information about the physical drive number 1 on the storage card named SLOT-5:

```
Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # scope physical-drive 1
Server /chassis/storageadapter/physical-drive # show status
Slot Number 1:
  Controller: SLOT-5
  State: system
  Online: true
  Fault: false
```

## Viewing Virtual Drive Properties

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters the chassis command mode.
<b>Step 2</b>	Server /chassis # <b>scope storageadapter SLOT-slot-number</b>	Enters command mode for an installed storage card.
<b>Step 3</b>	Server /chassis/storageadapter # <b>show virtual-drive [drive-number] [detail]</b>	Displays virtual drive information for the storage card.
<b>Step 4</b>	Server /chassis/storageadapter # <b>show virtual-drive-count [detail]</b>	Displays the number of virtual drives configured on the storage card.
<b>Step 5</b>	Server /chassis/storageadapter # <b>scope virtual-drive drive-number</b>	Enters command mode for the specified virtual drive.
<b>Step 6</b>	Server /chassis/storageadapter/virtual-drive # <b>show physical-drive [detail]</b>	Displays physical drive information about the specified virtual drive.

This example displays power supply properties:

```

Server# scope chassis
Server /chassis # scope storageadapter SLOT-5
Server /chassis/storageadapter # show virtual-drive
Virtual Drive  Status                Name                Size                RAID Level
-----
0              Optimal
Server /chassis/storageadapter # show virtual-drive-count
PCI Slot SLOT-5:
  Virtual Drive Count: 1
  Degraded Virtual Drive Count: 0
  Offline Virtual Drive Count: 0
Server /chassis/storageadapter # scope virtual-drive 0
Server /chassis/storageadapter/virtual-drive # show physical-drive
Span  Physical Drive Status    Starting Block Number Of Blocks
-----
0     2              online    0              1169920000
0     1              online    0              1169920000

```

## Viewing PCI Adapter Properties

### Before You Begin

The server must be powered on, or the properties will not display.

**Procedure**

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters the chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show pci-adapter [detail]</b>	Displays PCI adapter properties.

This example displays PCI adapter properties:

```
Server# scope chassis
Server /chassis # show pci-adapter
Name          Slot  Vendor ID  Device ID  Product Name
-----
PCIe Adapter1  1     0x1137    0x0042    Cisco UCS P81E Virtual...
PCIe Adapter2  5     0x1077    0x2432    Qlogic QLE2462 4Gb dua...

Server /chassis #
```

## Viewing Power Policy Statistics

**Procedure**

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>show power-cap [detail]</b>	Displays the server power consumption statistics and the power cap policy.

The displayed fields are described in the following table:

Name	Description
<b>Current Consumption</b>	The power currently being used by the server, in watts.
<b>Maximum Consumption</b>	The maximum number of watts consumed by the server since the last time it was rebooted.
<b>Minimum Consumption</b>	The minimum number of watts consumed by the server since the last time it was rebooted.

This example displays the detailed power statistics for a single-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
Cur Consumption (W): 36.10 W
Max Consumption (W): 075
Min Consumption (W): 36.10 W
Server /power-cap #
```



This example displays the detailed power statistics for a double-wide E-Series Server:

```
Server# scope power-cap
Server /power-cap # show detail
  Cur Consumption (W): 43.1 W
  Max Consumption (W): 160
  Min Consumption (W): 43.1 W
Server /power-cap #
```

## Viewing Hard Drive Presence

### Before You Begin

The server must be powered on, or the properties will not display.

### Procedure

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope chassis</b>	Enters the chassis command mode.
<b>Step 2</b>	Server /chassis # <b>show hdd</b>	Displays the hard drives.

This example displays power supply properties:

```
Server# scope chassis
Server /chassis # show hdd
  Name                Status
-----
HDD1_PRS              inserted
HDD2_PRS              inserted
HDD3_PRS              inserted
```

