



storage shelf commands

ONTAP 9.5 commands

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storage shelf commands

storage shelf show

Display a list of storage shelves

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf show` command displays information about all the storage shelves in the storage system. If no parameters are specified, the default command displays the following information about the storage shelves:

- Shelf Name
- Shelf ID
- Serial Number
- Model
- Module Type
- Status

To display detailed profile information about a single storage shelf, use the `-shelf` parameter.

Parameters

{ [-fields <fieldname>,...]

Displays the specified fields for all the storage shelves, in column style output.

| [-bay]

Displays the following details about the disk bays in the storage shelf:

- The unique positional identifier of the disk bay
- Whether a disk drive is installed in the bay
- Bay type
- Operational status of the disk bay

| [-connectivity]

Displays the following details about the connectivity from the node to the storage shelf:

- Node name
- Initiator side switch port
- Target side switch port
- World wide port name
- Target Port Group Number (TPGN)

| [-cooling]

Displays the following details about the cooling elements and temperature sensors of the storage shelf:

- Element ID of the cooling fan
- The current speed of the cooling fan in revolutions per minute (rpm)
- Operational status of the cooling fan
- Sensor ID of the temperature sensor element
- Temperature at the sensor in degrees Celsius
- Whether the current temperature at the sensor is the ambient temperature
- Low critical threshold value for the temperature sensor
- Low warning threshold value for the temperature sensor
- High critical threshold value for the temperature sensor
- High warning threshold value for the temperature sensor
- Operational status for the temperature sensor

| [-errors]

Displays the following error status information about the storage shelves which have errors:

- Error type
- Error description

| [-module]

Displays the following details about the I/O modules attached to the storage shelf:

- Module ID
- Module Part number
- Serial number of the Enclosure Services Controller Electronics element
- Whether monitoring is enabled on this module
- Whether this module is the SAS expander master module
- Whether this module is the element reporting
- Version of the firmware installed on the module
- Latest firmware revision
- Number of times, since last boot, that this module has been swapped
- Operational status of the module

| [-port]

Displays the following details about the storage shelf ports:

- Expander phy element identifier
- SAS shelf port type
- World Wide Port Name of the SAS port
- Operational physical link rate of the SAS port in Gb/s

- Negotiated physical link rate of the SAS port in Gb/s
- Power status of the SAS port
- Status of the SAS port
- Fibre Channel shelf port ID
- Fibre Channel shelf port type
- Fibre Channel shelf port status

| [-power]

Displays the following details about the power supplies, voltage sensors and current sensors of the storage shelf:

- Power Supply Unit (PSU) number
- PSU type
- PSU part number
- PSU serial number
- PSU power rating in watts
- PSU crest factor
- Power drawn from the PSU in watts
- Whether the PSU can be reset via software control
- Whether the auto power reset of the PSU is enabled
- PSU firmware revision
- Operational status of the PSU
- Voltage sensor number
- Voltage detected by the voltage sensor, in volts (V)
- Operational status of the voltage sensor
- Current sensor number
- Current detected by the current sensor, in milliamps (mA)
- Operational status of the current sensor

| [-instance] }

Displays expanded information about all the storage shelves in the system.

[-node {<nodename>|local}] - Node

Displays information only about the storage shelves that are attached to the node you specify.

[-shelf <text>] - Shelf Name

Displays information only about the storage shelves that match the names you specify.

[-shelf-uid <text>] - Shelf UID

Displays information only about the storage shelf that matches the shelf UID you specify. Example:
 `50:05:0c:c0:02:10:64:26`

[-stack-id {<integer>|-}] - Stack ID

Displays information only about the storage shelves that are attached to the stack that matches the stack ID you specify

[-shelf-id <text>] - Shelf ID

Displays information only about the storage shelves that match the shelf ID you specify.

[-module-type

{unknown|atfcx|esh4|iom3|iom6|iom6e|iom12|iom12e|iom12f|psm3e|iom12b}] - Shelf Module Type

Displays information only about the storage shelves that match the module-type you specify.

[-connection-type {unknown|fc|sas|nvme}] - Shelf Connection Type

Displays information only about the storage shelves that match the connection type you specify. Example: FC or SAS.

[-is-local-attach {true|false}] - Is the Shelf Local to This Cluster?

Displays information only about the storage shelves that are local (TRUE) or remote (FALSE) to this cluster.

[-vendor <text>] - Shelf Vendor

Displays information only about the storage shelves that match the vendor you specify.

[-product-id <text>] - Shelf Product Identification

Displays information only about the storage shelves that match the product ID you specify.

[-serial-number <text>] - Shelf Serial Number

Displays information only about the storage shelf that matches the serial number you specify.

[-disk-count {<integer>|-}] - Disk Count

Displays information only about the storage shelves that have the disk count you specify.

[-state {unknown|no-status|init-required|online|offline|missing}] - Shelf State

Displays information only about the storage shelves that are in the state you specify.

[-op-status {unknown|normal|warning|error|critical|standby-power}] - Shelf Operational Status

Displays information only about the storage shelves that are currently operating under the status condition you specify.

[-bay-id {<integer>|-}] - Bay ID

Displays information only about the storage shelves that have bays that match the bay ID you specify.

[-bay-type {unknown|single-disk|multi-lun}] - Bay Type

Displays information only about the storage shelves that have bays that match the type of bay you specify.

[-bay-has-disk {true|false}] - Bay Has Disk

Displays information only about the storage shelves that have bays with disk drives inserted in them (true) or empty bays (false).

[-bay-op-status {unknown|normal|error}] - Bay Operational Status

Displays information only about the storage shelves that have bays that match the operational state you specify.

[-controller {<nodename>|local}] - Controller Name

Displays information only about the storage shelves that are connected to the node you specify.

[-controller-uuid <text>,...] - Controller UUID

Displays information only about the storage shelves that are connected to the node UUID you specify.

[-initiator <text>,...] - Initiator

Displays information only about the storage shelves that are visible to the initiator you specify.

[-initiator-wwpn <text>,...] - Initiator WWPN

Displays information only about the storage shelves that are visible to the initiator WWPN you specify.

[-initiator-side-switch-port <text>,...] - Initiator Side Switch Port

Displays information only about the storage shelves that are visible to an initiator connected to the switch port you specify.

[-target-side-switch-port <text>,...] - Target Side Switch Port

Displays information only about the storage shelves visible on target ports identified by the switch port to which they are connected.

[-target-port <text>,...] - Target Port

Displays information only about the storage shelves visible on the specified target ports identified by their World Wide Port Name (WWPN).

[-tpgn {<integer>|-}] - Target Port Group Number

Displays information only about the storage shelves that belong to the Target Port Group Name (TPGN) you specify.

[-port-speed {<integer>|-}] - Port Speed

Displays information only about the storage shelves with ports that match the port speed you specify.

[-io-kbps {<integer>|-}] - Kbytes/sec on Storage Shelf

Displays information only about the storage shelves visible to an initiator that has executed I/O at the throughput you specify.

[-iops {<integer>|-}] - Number IOPS per Second on Storage Shelf

Displays information only about the storage shelves visible to an initiator that has executed the number of IOPs you specify.

[-current-sensor-id {<integer>|-}] - Current Sensor ID

Displays information only about the storage shelves with current sensor that matches the current sensor ID you specify.

[-current-sensor-location <text>,...] - Current Sensor Location

Displays information only about the storage shelves with current sensors installed at the location you specify.

[-current-sensor-reading {<integer>|-}] - Current Sensor Reading

Displays information only about the storage shelves with current sensors that match the current reading you specify.

[-current-op-status {unknown|normal|over-current-critical|under-current-critical|not-supported|not-installed}] - Operational Status

Displays information only about the storage shelves with current sensors that match the operational status you specify.

[-fan-id {<integer>|-}] - Fan ID

Displays information only about the storage shelves with a cooling fans that match the fan IDs you specify.

[-fan-location <text>,...] - Fan Location

Displays information only about the storage shelves with cooling fans installed.

[-fan-rpm {<integer>|-}] - Fan Rotation Per Minute

Displays information only about the storage shelves with cooling fans that match the rpm you specify.

[-fan-op-status {unknown|normal|off|error|not-supported|not-installed}] - Fan Operational Status

Displays information only about the storage shelves with cooling fans that match the operational status you specify.

[-module-id <text>,...] - Module ID

Displays information only about the storage shelves with an I/O module that matches the module ID you specify.

[-module-location <text>,...] - Module Location

Displays information only about the storage shelves with I/O modules in the specified shelf module slots.

[-module-part-number <text>,...] - Module Part Number

Displays information only about the storage shelves with I/O modules that match the module part numbers you specify.

[-is-sas-master-module {true|false}] - Is SAS Expander Master Module?

Displays information only about the storage shelves with a SAS master I/O module (true) or an I/O module that is not a SAS master (false). This parameter applies only to SAS shelves.

[-is-monitor-active {true|false}] - Is Monitor Active?

Displays information only about the storage shelves whose monitoring is enabled (true) or disabled (false).

[-enclosure-type <text>,...] - Module Enclosure Type

Displays information only about the storage shelves that match the enclosure types you specify.

[-es-serial-number <text>,...] - ES Electronics Element Serial Number

Displays information only about the storage shelves with I/O modules that match the electronics serial numbers you specify.

[`-module-fru-id <text>,...`] - Field Replaceable Unit ID

Displays information only about the storage shelves with I/O modules that match the field replaceable unit (FRU) IDs you specify.

[`-module-is-reporting-element {true|false}`] - Is Reporting Element?

Displays information only about the storage shelves with element reporting I/O modules (true) or not (false).

[`-module-fw-revision <text>,...`] - Firmware Revision

Displays information only about the storage shelves with I/O modules that match the firmware revision you specify.

[`-module-latest-fw-revision <text>,...`] - Latest Firmware Revision

Displays information only about the storage shelves with I/O modules that match the latest firmware revision you specify.

[`-module-fw-progress {not-available|ready|in-progress|failed}`] - Module Firmware Progress

Displays information only about the storage shelves with I/O modules that match the specified firmware update progress.

[`-module-swap-count {<integer>|-}`] - Module Swap Count

Displays information only about the storage shelves whose I/O modules have been swapped the specified number of times.

[`-module-op-status {unknown|normal|warning|error}`] - Module Operational Status

Displays information only about the storage shelves with I/O modules that match the operational status you specify.

[`-sas-port-id <text>,...`] - Port ID

Displays information only about the storage shelves with SAS Ports that match the port IDs you specify.

[`-sas-port-type {unknown|circle|square|sil|disk|in|out|unused|host|dcm|aux1|aux2|hi_ho|a_to_b|b_to_a}`] - Port Type

Displays information only about the storage shelves with SAS Ports that match the SAS port type you specify.

[`-sas-port-wwpn <text>,...`] - Port World Wide Port Name

Displays information only about the storage shelves with SAS Ports that match the World Wide Port Names you specify.

[`-sas-port-speed <text>,...`] - Port Speed

Displays information only about the storage shelves with SAS Ports that match the port speed you specify.

[`-sas-negotiated-port-speed <text>,...`] - Negotiated Port Speed

Displays information only about the storage shelves with SAS Ports that match the negotiated port speed you specify.

[`-sas-port-power-status <text>,...`] - Port Power Status

Displays information only about the storage shelves with SAS Ports that match the power status you

specify.

```
[-sas-port-op-status {error|normal|off|unknown|byp-bad-term|bad-zone-  
recovery|byp_clk_thr|byp_comma_los|byp_crc_brst_thr|byp_data_timeout|byp_drv_faul  
t|byp_drv_pcycle|byp_drv_pwr|byp_drv_self|byp_gen|byp_init|byp_lip_brst_thr|byp_l  
ip_f8|byp_lip_rate_thr|byp_lipf7|byp_ltbi|byp_man|byp_no_drive|byp_osc|byp_other_  
thr|byp_rec_los|byp_rport|byp_stall_thr|byp_wrd_brst_thr|byp_wrd_rate_thr|byp_xmi  
t_fault|diag_transmit|inserted|loopback|status_unknown|warn_high_clk_delta|warn_h  
igh_crc_rate|warn_high_lip|warn_high_wrd_rate|term|phy_dis_clk_fault|phy_dis_crc_  
err|phy_dis_crc_err_burst|phy_dis_disparity|phy_dis_disparity_burst|phy_dis_emula  
te_reserve|phy_dis_inval_dword|phy_dis_inval_dword_burst|phy_dis_loss_dword|phy_d  
is_loss_dword_burst|phy_dis_man_smp|phy_dis_manual|phy_dis_mirrored|empty|phy_dis_  
_phy_change|phy_dis_phy_change_burst|phy_dis_phy_reset|phy_dis_phy_reset_burst|ph  
y_dis_phy_unused|phy_ena|phy_ena_not_attach|phy_ena_unknown|phy_unknown|phy_dis_i  
llegal}}] - Port Operational Status
```

Displays information only about the storage shelves with SAS Ports that match the operational status you specify.

```
[-sas-port-module-id {A|B}] - Port Module ID
```

Displays information only about the storage shelves with SAS Ports that match the module ID you specify.

```
[-fc-port-id <text>,...] - Fibre Channel Port ID
```

Displays information only about the storage shelves with FC Ports that match the port IDs you specify.

```
[-fc-port-mode
```

```
{unknown|circle|square|sil|disk|in|out|unused|host|dcm|aux1|aux2|hi_ho|a_to_b|b_t  
o_a}}] - Fibre Channel Port Mode
```

Displays information only about the storage shelves with FC Ports that match the port modes you specify.

```
[-fc-port-op-status {error|normal|off|unknown|byp-bad-term|bad-zone-  
recovery|byp_clk_thr|byp_comma_los|byp_crc_brst_thr|byp_data_timeout|byp_drv_faul  
t|byp_drv_pcycle|byp_drv_pwr|byp_drv_self|byp_gen|byp_init|byp_lip_brst_thr|byp_l  
ip_f8|byp_lip_rate_thr|byp_lipf7|byp_ltbi|byp_man|byp_no_drive|byp_osc|byp_other_  
thr|byp_rec_los|byp_rport|byp_stall_thr|byp_wrd_brst_thr|byp_wrd_rate_thr|byp_xmi  
t_fault|diag_transmit|inserted|loopback|status_unknown|warn_high_clk_delta|warn_h  
igh_crc_rate|warn_high_lip|warn_high_wrd_rate|term|phy_dis_clk_fault|phy_dis_crc_  
err|phy_dis_crc_err_burst|phy_dis_disparity|phy_dis_disparity_burst|phy_dis_emula  
te_reserve|phy_dis_inval_dword|phy_dis_inval_dword_burst|phy_dis_loss_dword|phy_d  
is_loss_dword_burst|phy_dis_man_smp|phy_dis_manual|phy_dis_mirrored|empty|phy_dis_  
_phy_change|phy_dis_phy_change_burst|phy_dis_phy_reset|phy_dis_phy_reset_burst|ph  
y_dis_phy_unused|phy_ena|phy_ena_not_attach|phy_ena_unknown|phy_unknown|phy_dis_i  
llegal}}] - Fibre Channel Port Operational Status
```

Displays information only about the storage shelves with FC Ports that match the operational status you specify.

```
[-psu-id {<integer>|-}] - Power Supply Unit ID
```

Displays information only about the storage shelves with power supply units (PSU) that match the unit IDs you specify.

```
[-psu-location <text>,...] - Power Supply Unit Location
```

Displays information only about the storage shelves with PSUs that are located at the specified location

inside the shelf.

[-psu-type <text>,...] - Power Supply Unit Type

Displays information only about the storage shelves with PSUs that match the PSU types you specify.

[-psu-part-number <text>,...] - Power Supply Unit Part Number

Displays information only about the storage shelves with PSUs that match the PSU part number you specify.

[-psu-serial-number <text>,...] - Power Supply Unit Serial Number

Displays information only about the storage shelves with PSUs that match the PSU serial numbers you specify.

[-psu-reset-capable {true|false}] - Power Supply Unit Reset Capability

Displays information only about the storage shelves with reset capable PSUs (true) or reset incapable PSUs (false).

[-psu-is-enabled {true|false}] - Power Supply Unit Enable/Disable Status

Displays information only about the storage shelves with PSUs that are enabled (true) or disabled (false).

[-psu-fw-version <text>,...] - Power Supply Unit Firmware Version

Displays information only about the storage shelves with PSUs that have the firmware version you specify.

[-psu-op-status {unknown|normal|error|dc-over-voltage|dc-under-voltage|dc-over-current|over-temperature-error|failed|off|not-supported|not-installed}] - Operational Status

Displays information only about the storage shelves with PSUs that match the operational status you specify.

[-psu-power-rating {<integer>|-}] - Power Supply Power Ratings In Watts

Displays information only about the storage shelves with PSUs that match the power rating you specify.

[-psu-crest-factor {<integer>|-}] - Power Supply Crest Factor

Displays information only about the storage shelves with PSUs that match the crest factor value you specify.

[-psu-power-drawn {<integer>|-}] - Power Drawn From PSU In Watts

Displays information only about the storage shelves with PSUs that match the drawn power you specify.

[-temp-sensor-id {<integer>|-}] - Sensor Name

Displays information only about the storage shelves with temperature sensors that match the sensor IDs you specify.

[-temp-sensor-location <text>,...] - Sensor Location

Displays information only about the storage shelves with temperature sensors that match the specified sensor locations inside the shelf.

[-temp-sensor-reading {<integer>|-}] - Temperature Reading

Displays information only about the storage shelves with temperature sensors that match the temperature reading you specify.

`[-temp-is-ambient {true|false}] - Temperature Reading at Ambient Value`

Displays information only about the storage shelves with temperature sensors whose current temperature reading is ambient (true) or not (false).

`[-temp-high-critical-threshold {<integer>|-}] - High Critical Threshold`

Displays information only about the storage shelves with temperature sensors that match the high critical threshold you specify.

`[-temp-high-warning-threshold {<integer>|-}] - High Warning Threshold`

Displays information only about the storage shelves with temperature sensors that match the high warning threshold you specify.

`[-temp-low-warning-threshold {<integer>|-}] - Low Warning Threshold`

Displays information only about the storage shelves with temperature sensors that match the low warning threshold you specify.

`[-temp-low-critical-threshold {<integer>|-}] - Low Critical Threshold`

Displays information only about the storage shelves with temperature sensors that match the low critical threshold you specify.

`[-temp-op-status {unknown|normal|under-temperature|over-temperature|error|not-supported|not-installed}] - Operational Status`

Displays information only about the storage shelves with temperature sensors that match the operational status you specify.

`[-voltage-sensor-id {<integer>|-}] - Voltage Sensor ID`

Displays information only about the storage shelves with voltage sensors that match the sensor IDs you specify.

`[-voltage-sensor-location <text>,...] - Voltage Sensor Location`

Displays information only about the storage shelves with voltage sensors that match the specified sensor locations inside the shelf.

`[-voltage-sensor-reading <text>,...] - Voltage Current Reading`

Displays information only about the storage shelves with voltage sensors that match the voltage reading you specify.

`[-voltage-op-status {unknown|normal|over-voltage-critical|under-voltage-critical|not-supported|not-installed|not-recoverable}] - Operational Status`

Displays information only about the storage shelves with voltage sensors that match the operational status you specify.

`[-error-type {unknown|acpp|bay|configuration|current|disk|internal|fan|module|port|power|temperature|voltage}] - Error Type`

Displays information only about the storage shelves with errors that match the error type you specify.

`[-error-severity {unknown|notice|warning|error|critical}] - Error Severity`

Displays information only about the storage shelves with errors that match the error severity you specify.

Examples

The following example displays information about all storage shelves:

```
cluster1::> storage shelf show
Module Operational
      Shelf Name  Shelf ID  Serial Number  Model  Type
Status
-----
Critical      1.1      1  6000832415    DS2246  IOM6
Normal        1.2      2  6000647652    DS2246  IOM6
Normal        1.3      3  6000003844    DS2246  IOM6
Normal        1.4      4  SHJ000000013A9E DS4246  IOM6
Normal        1.5      5  SHJ000000013A84 DS4246  IOM6
Normal        1.6      6  6000005555    DS2246  IOM6
Normal
      6 entries were displayed.
cluster1::>
```

The following example displays expanded information about a storage shelf named 1.2:

```
cluster1::> storage shelf show -shelf 1.2 -instance
Shelf Name: 1.2
      Stack ID: 1
      Shelf ID: 2
      Shelf UID: 50:0a:09:80:01:b9:75:41
      Serial Number: 6000647652
      Module Type: IOM6
      Model: DS2246
      Shelf Vendor: NETAPP
      Disk Count: 12
      Connection Type: SAS
      Shelf State: Online
      Status: Normal
Modules:
      Latest Swap Operational Module
      ID Part No.      ES Serial No.      is Active Master Element      Progress
      FW Rev. FW Rev. Count Status      Location
      Module is
      Monitor Is      Reporting FW Update
```

```

-----
a 111-00190+A0 8006437891 true false false not-
available 0191 - 0 normal rear of the shelf at the top
left

```

```

b 111-00190+A0 8006435180 true true true not-
available 0191 - 0 normal rear of the shelf at the top
right

```

Paths:

Speed

| Controller | Initiator | Initiator | Side | Switch | Port | Target | Side |
|-------------|-------------|-----------|------|--------|------|--------|------|
| Switch Port | Target Port | TPGN | Gb/s | I/O | KB/s | IOPS | |

| | | | | | | | |
|--------------|----|---|---|---|---|---|---|
| stsw-8020-01 | 0a | - | - | - | - | - | - |
| stsw-8020-01 | 2b | - | - | - | - | - | - |
| stsw-8020-02 | 0a | - | - | - | - | - | - |
| stsw-8020-02 | 2b | - | - | - | - | - | - |

Power Supply Units:

| Reset | PSU | Operational | Crest | Power |
|---------|---------|--------------|--------------|--------------------------------------|
| ID | Type | Part# | Serial# | Power Rating |
| Capable | Enabled | Firmware | Status | PSU Location |
| 1 | 9C | 114-00065+A1 | XXT131052637 | - |
| false | true | 020F | normal | rear of the shelf at the bottom left |

| | | | | |
|-------|------|--------------|--------------|---------------------------------------|
| 2 | 9C | 114-00065+A1 | XXT131052551 | - |
| false | true | 020F | normal | rear of the shelf at the bottom right |

Voltage Sensors:

| Voltage | Operational | Sensor Location |
|---------|-------------|-----------------|
| ID | (V) | Status |
| 1 | 5.70 | normal |
| 2 | 12.300 | normal |
| 3 | 5.70 | normal |

power supply rear of the shelf on the lower left

power supply rear of the shelf on the lower left

rear of the shelf on the lower

```

right power supply
  4 12.180 normal rear of the shelf on the lower
right power supply
Current Sensors:
  Current Operational
  ID      (mA) Status      Sensor Location
  ---
  1        0 normal rear of the shelf on the lower left
power supply
  2        0 normal rear of the shelf on the lower left
power supply
  3        0 normal rear of the shelf on the lower
right power supply
  4        0 normal rear of the shelf on the lower
right power supply
Fans:
  Speed Operational
  ID  (RPM) Status      Fan Location
  ---
  1  3000 normal rear of the shelf on the lower left
power supply
  2  2970 normal rear of the shelf on the lower left
power supply
  3  3000 normal rear of the shelf on the lower
right power supply
  4  2970 normal rear of the shelf on the lower
right power supply
Temperature:
  -- Thresholds °C --
  Temp Is      Low Low High High Operational
  ID   °C Ambient Crit Warn Crit Warn Status      Sensor
Location
  ---
  1  23 true      0   5  42  40 normal front of the
shelf on the left, on the OPS panel
  2  26 false     5  10  55  50 normal inside of the
shelf on the midplane
  3  24 false     5  10  55  50 normal rear of the
shelf on the lower left power supply
  4  39 false     5  10  70  65 normal rear of the
shelf on the lower left power supply
  5  25 false     5  10  55  50 normal rear of the
shelf on the lower right power supply
  6  36 false     5  10  70  65 normal rear of the
shelf on the lower right power supply

```

```

7    25 false      5    10    60    55 normal      rear of the
shelf at the top left, on shelf module A
8    26 false      5    10    60    55 normal      rear of the
shelf at the top right, on shelf module B
SAS Ports:

```

| | | | | | -- Port Speeds Gb/s -- Power | |
|---------|-------|-------|-----------|------------------|------------------------------|-------------------|
| Port | Phy # | IOM | Port Type | WWPN | Operational | Negotiated Status |
| Status | | | | | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Enabled | 0 | A | Square | 500a098004b063b0 | 6.0 | - - |
| Enabled | 1 | A | Square | 500a098004b063b0 | 6.0 | - - |
| Enabled | 2 | A | Square | 500a098004b063b0 | 6.0 | - - |
| Enabled | 3 | A | Square | 500a098004b063b0 | 6.0 | - - |
| Enabled | 4 | A | Circle | 500a09800569f03f | 6.0 | - - |
| Enabled | 5 | A | Circle | 500a09800569f03f | 6.0 | - - |
| Enabled | 6 | A | Circle | 500a09800569f03f | 6.0 | - - |
| Enabled | 7 | A | Circle | 500a09800569f03f | 6.0 | - - |
| Enabled | 8 | A | Disk | 500605ba00c1cb8d | 6.0 | 6.0 on |
| Enabled | 9 | A | Disk | 500605ba00c1ea8d | 6.0 | 6.0 on |
| Enabled | 10 | A | Disk | 500605ba00c1d111 | 6.0 | 6.0 on |
| Enabled | 11 | A | Disk | 500605ba00c1bc49 | 6.0 | 6.0 on |
| Enabled | 12 | A | Disk | 500605ba00c1cdfd | 6.0 | 6.0 on |
| Enabled | 13 | A | Disk | 500605ba00c1c531 | 6.0 | 6.0 on |
| Enabled | 14 | A | Disk | 500605ba00c1eb05 | 6.0 | 6.0 on |
| Enabled | 15 | A | Disk | 500605ba00c1ec29 | 6.0 | 6.0 on |
| Enabled | 16 | A | Disk | 500605ba00c1bc29 | 6.0 | 6.0 on |
| Enabled | 17 | A | Disk | 500605ba00c1c471 | 6.0 | 6.0 on |

| | | | | | | |
|----------|----|---|--------|------------------|-----|--------|
| Enabled | | | | | | |
| | 18 | A | Disk | 500605ba00c039a9 | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 19 | A | Disk | 500605ba00c1c4dd | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 20 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 21 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 22 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 23 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 24 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 25 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 26 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 27 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 28 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 29 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 30 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 31 | A | Disk | - | - | - - |
| Empty | | | | | | |
| | 32 | A | SIL | - | - | - - |
| Disabled | | | | | | |
| | 33 | A | SIL | - | - | - - |
| Disabled | | | | | | |
| | 34 | A | SIL | - | - | - - |
| Disabled | | | | | | |
| | 35 | A | SIL | - | - | - - |
| Disabled | | | | | | |
| | 0 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | | |
| | 1 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | | |
| | 2 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | | |
| | 3 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | | |
| | 4 | B | Circle | 500a098005688dbf | 6.0 | - - |

| | | | | | | |
|---------|----|---|--------|------------------|-----|--------|
| Enabled | | | | | | |
| | 5 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | | |
| | 6 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | | |
| | 7 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | | |
| | 8 | B | Disk | 500605ba00c1cb8e | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 9 | B | Disk | 500605ba00c1ea8e | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 10 | B | Disk | 500605ba00c1d112 | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 11 | B | Disk | 500605ba00c1bc4a | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 12 | B | Disk | 500605ba00c1cdfc | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 13 | B | Disk | 500605ba00c1c532 | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 14 | B | Disk | 500605ba00c1eb06 | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 15 | B | Disk | 500605ba00c1ec2a | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 16 | B | Disk | 500605ba00c1bc2a | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 17 | B | Disk | 500605ba00c1c472 | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 18 | B | Disk | 500605ba00c039aa | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 19 | B | Disk | 500605ba00c1c4de | 6.0 | 6.0 on |
| Enabled | | | | | | |
| | 20 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 21 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 22 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 23 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 24 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 25 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 26 | B | Disk | - | - | - - |
| Empty | | | | | | |
| | 27 | B | Disk | - | - | - - |

```

Empty
  28  B  Disk      -
Empty
  29  B  Disk      -
Empty
  30  B  Disk      -
Empty
  31  B  Disk      -
Empty
  32  B  SIL       -
Disabled
  33  B  SIL       -
Disabled
  34  B  SIL       -
Disabled
  35  B  SIL       -
Disabled
FC Ports:

```

```

          Port
      ID Port Type Status
-----
  -  -

```

Bays:

```

Has          Operational
  ID Disk  Bay Type    Status
-----
  0 true  single-disk normal
  1 true  single-disk normal
  2 true  single-disk normal
  3 true  single-disk normal
  4 true  single-disk normal
  5 true  single-disk normal
  6 true  single-disk normal
  7 true  single-disk normal
  8 true  single-disk normal
  9 true  single-disk normal
 10 true  single-disk normal
 11 true  single-disk normal
 12 false single-disk normal
 13 false single-disk normal
 14 false single-disk normal
 15 false single-disk normal
 16 false single-disk normal
 17 false single-disk normal
 18 false single-disk normal
 19 false single-disk normal

```

```

20 false single-disk normal
21 false single-disk normal
22 false single-disk normal
23 false single-disk normal
cluster1::>

```

The following example displays information about the power supplies, voltage sensors and current sensors of the storage shelf 1.1:

```

cluster1::> storage shelf show -shelf 1.1 -power
Shelf Name: 1.1
          Stack ID: 1
          Shelf ID: 1
          Shelf UID: 50:0a:09:80:01:cb:d6:84
          Serial Number: 6000832415
          Module Type: IOM6
          Model: DS2246
          Shelf Vendor: NETAPP
          Disk Count: 12
          Connection Type: SAS
          Shelf State: Online
          Status: Normal
Power Supply Units:

```

| Reset | PSU | Operational | | Crest | Power | |
|---------|---------|--------------|--------------|--------------|--------|-------|
| ID | Type | Part# | Serial# | Power Rating | Factor | Drawn |
| Capable | Enabled | Firmware | Status | | | |
| --- | ---- | ----- | ----- | ----- | ----- | ----- |
| 1 | 9C | 114-00065+A1 | XXT132835072 | - | - | - |
| false | true | 020F | normal | | | |
| 2 | 9C | 114-00065+A1 | XXT132835073 | - | - | - |
| false | true | 020F | normal | | | |

```

Voltage Sensors:
          Voltage Operational
          ID      (V) Status
          ---
          1      5.70 normal
          2      12.180 normal
          3      5.70 normal
          4      12.300 normal
Current Sensors:
          Current Operational
          ID      (mA) Status
          ---

```

```
1      0 normal
2      0 normal
3    3900 normal
4      0 normal
```

Errors:

Critical condition is detected in storage shelf power supply unit "1".
The unit might fail.

Critical over temperature failure for temperature sensor "1". Current
temperature: "75" C ("167" F).

cluster1::>

The following example displays information about the cooling elements and temperature sensors inside the storage shelf 1.2:

```

cluster1::> storage shelf show -shelf 1.2 -cooling
Shelf Name: 1.2
      Stack ID: 1
      Shelf ID: 2
      Shelf UID: 50:0a:09:80:01:b9:75:41
      Serial Number: 6000647652
      Module Type: IOM6
      Model: DS2246
      Shelf Vendor: NETAPP
      Disk Count: 12
      Connection Type: SAS
      Shelf State: Online
      Status: Normal

Fans:
      Speed Operational
      ID (RPM) Status
      -- -----
      1  3000 normal
      2  3000 normal
      3  3000 normal
      4  2970 normal

Temperature:
      -- Thresholds °C --
      Temp Is      Low  Low High High Operational
      ID   °C Ambient Crit Warn Crit Warn Status
      --- ---
      1    23 true    0   5  42  40 normal
      2    26 false   5  10  55  50 normal
      3    24 false   5  10  55  50 normal
      4    39 false   5  10  70  65 normal
      5    25 false   5  10  55  50 normal
      6    36 false   5  10  70  65 normal
      7    25 false   5  10  60  55 normal
      8    27 false   5  10  60  55 normal

Errors:
      -----
      -
cluster1::>

```

The following example displays information about the connectivity from the node to the storage shelf 1.2:

```

cluster1::> storage shelf show -shelf 1.2 -connectivity
    Shelf Name: 1.2
      Stack ID: 1
      Shelf ID: 2
      Shelf UID: 50:0a:09:80:01:b9:75:41
    Serial Number: 6000647652
      Module Type: IOM6
        Model: DS2246
      Shelf Vendor: NETAPP
        Disk Count: 12
    Connection Type: SAS
      Shelf State: Online
        Status: Normal

Paths:
Controller          Initiator Initiator Side Switch Port Target Side Switch
Port      Target Port          TPGN
-----
-          -          -          -          -
-          -          -          -          -
-          -          -          -          -
-          -          -          -          -
-          -          -          -          -
-          -          -          -          -
-          -          -          -          -
Errors:
-----
-
cluster1::>

```

The following example displays information about the disk bays of the storage shelf 1.2:

```
cluster1::> storage shelf show -shelf 1.2 -bay
```

```
Shelf Name: 1.2
```

```
Stack ID: 1
```

```
Shelf ID: 2
```

```
Shelf UID: 50:0a:09:80:01:b9:75:41
```

```
Serial Number: 6000647652
```

```
Module Type: IOM6
```

```
Model: DS2246
```

```
Shelf Vendor: NETAPP
```

```
Disk Count: 12
```

```
Connection Type: SAS
```

```
Shelf State: Online
```

```
Status: Normal
```

```
Bays:
```

| Has | ID | Disk | Bay | Type | Status |
|-----|----|-------|-------------|--------|--------|
| | 0 | true | single-disk | normal | |
| | 1 | true | single-disk | normal | |
| | 2 | true | single-disk | normal | |
| | 3 | true | single-disk | normal | |
| | 4 | true | single-disk | normal | |
| | 5 | true | single-disk | normal | |
| | 6 | true | single-disk | normal | |
| | 7 | true | single-disk | normal | |
| | 8 | true | single-disk | normal | |
| | 9 | true | single-disk | normal | |
| | 10 | true | single-disk | normal | |
| | 11 | true | single-disk | normal | |
| | 12 | false | single-disk | normal | |
| | 13 | false | single-disk | normal | |
| | 14 | false | single-disk | normal | |
| | 15 | false | single-disk | normal | |
| | 16 | false | single-disk | normal | |
| | 17 | false | single-disk | normal | |
| | 18 | false | single-disk | normal | |
| | 19 | false | single-disk | normal | |
| | 20 | false | single-disk | normal | |
| | 21 | false | single-disk | normal | |
| | 22 | false | single-disk | normal | |
| | 23 | false | single-disk | normal | |

```
Errors:
```

```
-----
```

```
-
```

```
cluster1::>
```


The following example displays information about the ports of the storage shelf 1.2:

```
cluster1::> storage shelf show -shelf 1.2 -port
Shelf Name: 1.2
      Stack ID: 1
      Shelf ID: 2
      Shelf UID: 50:0a:09:80:01:b9:75:41
      Serial Number: 6000647652
      Module Type: IOM6
      Model: DS2246
      Shelf Vendor: NETAPP
      Disk Count: 12
      Connection Type: SAS
      Shelf State: Online
      Status: Normal

SAS Ports:
-- Port Speeds Gb/s -- Power
Port
Phy # IOM Port Type WWPN      Operational Negotiated Status
Status
-----
-----
      0  A  Square  500a098004b063b0      6.0      - -
Enabled
      1  A  Square  500a098004b063b0      6.0      - -
Enabled
      2  A  Square  500a098004b063b0      6.0      - -
Enabled
      3  A  Square  500a098004b063b0      6.0      - -
Enabled
      4  A  Circle  500a09800569f03f      6.0      - -
Enabled
      5  A  Circle  500a09800569f03f      6.0      - -
Enabled
      6  A  Circle  500a09800569f03f      6.0      - -
Enabled
      7  A  Circle  500a09800569f03f      6.0      - -
Enabled
      8  A  Disk    500605ba00c1cb8d      6.0      6.0 on
Enabled
      9  A  Disk    500605ba00c1ea8d      6.0      6.0 on
Enabled
     10  A  Disk    500605ba00c1d111      6.0      6.0 on
Enabled
     11  A  Disk    500605ba00c1bc49      6.0      6.0 on
Enabled
```

| | | | | | | | |
|----------|----|---|------|------------------|-----|-----|----|
| Enabled | 12 | A | Disk | 500605ba00c1cdfd | 6.0 | 6.0 | on |
| Enabled | 13 | A | Disk | 500605ba00c1c531 | 6.0 | 6.0 | on |
| Enabled | 14 | A | Disk | 500605ba00c1eb05 | 6.0 | 6.0 | on |
| Enabled | 15 | A | Disk | 500605ba00c1ec29 | 6.0 | 6.0 | on |
| Enabled | 16 | A | Disk | 500605ba00c1bc29 | 6.0 | 6.0 | on |
| Enabled | 17 | A | Disk | 500605ba00c1c471 | 6.0 | 6.0 | on |
| Enabled | 18 | A | Disk | 500605ba00c039a9 | 6.0 | 6.0 | on |
| Enabled | 19 | A | Disk | 500605ba00c1c4dd | 6.0 | 6.0 | on |
| Empty | 20 | A | Disk | - | - | - | - |
| Empty | 21 | A | Disk | - | - | - | - |
| Empty | 22 | A | Disk | - | - | - | - |
| Empty | 23 | A | Disk | - | - | - | - |
| Empty | 24 | A | Disk | - | - | - | - |
| Empty | 25 | A | Disk | - | - | - | - |
| Empty | 26 | A | Disk | - | - | - | - |
| Empty | 27 | A | Disk | - | - | - | - |
| Empty | 28 | A | Disk | - | - | - | - |
| Empty | 29 | A | Disk | - | - | - | - |
| Empty | 30 | A | Disk | - | - | - | - |
| Empty | 31 | A | Disk | - | - | - | - |
| Disabled | 32 | A | SIL | - | - | - | - |
| Disabled | 33 | A | SIL | - | - | - | - |
| Disabled | 34 | A | SIL | - | - | - | - |

| | | | | | |
|----------|---|--------|------------------|-----|--------|
| 35 | A | SIL | - | - | - - |
| Disabled | | | | | |
| 0 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | |
| 1 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | |
| 2 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | |
| 3 | B | Square | 500a098004af9e30 | 6.0 | - - |
| Enabled | | | | | |
| 4 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | |
| 5 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | |
| 6 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | |
| 7 | B | Circle | 500a098005688dbf | 6.0 | - - |
| Enabled | | | | | |
| 8 | B | Disk | 500605ba00c1cb8e | 6.0 | 6.0 on |
| Enabled | | | | | |
| 9 | B | Disk | 500605ba00c1ea8e | 6.0 | 6.0 on |
| Enabled | | | | | |
| 10 | B | Disk | 500605ba00c1d112 | 6.0 | 6.0 on |
| Enabled | | | | | |
| 11 | B | Disk | 500605ba00c1bc4a | 6.0 | 6.0 on |
| Enabled | | | | | |
| 12 | B | Disk | 500605ba00c1cdfc | 6.0 | 6.0 on |
| Enabled | | | | | |
| 13 | B | Disk | 500605ba00c1c532 | 6.0 | 6.0 on |
| Enabled | | | | | |
| 14 | B | Disk | 500605ba00c1eb06 | 6.0 | 6.0 on |
| Enabled | | | | | |
| 15 | B | Disk | 500605ba00c1ec2a | 6.0 | 6.0 on |
| Enabled | | | | | |
| 16 | B | Disk | 500605ba00c1bc2a | 6.0 | 6.0 on |
| Enabled | | | | | |
| 17 | B | Disk | 500605ba00c1c472 | 6.0 | 6.0 on |
| Enabled | | | | | |
| 18 | B | Disk | 500605ba00c039aa | 6.0 | 6.0 on |
| Enabled | | | | | |
| 19 | B | Disk | 500605ba00c1c4de | 6.0 | 6.0 on |
| Enabled | | | | | |
| 20 | B | Disk | - | - | - - |
| Empty | | | | | |
| 21 | B | Disk | - | - | - - |
| Empty | | | | | |

```

22  B  Disk  -  -  -
Empty
23  B  Disk  -  -  -
Empty
24  B  Disk  -  -  -
Empty
25  B  Disk  -  -  -
Empty
26  B  Disk  -  -  -
Empty
27  B  Disk  -  -  -
Empty
28  B  Disk  -  -  -
Empty
29  B  Disk  -  -  -
Empty
30  B  Disk  -  -  -
Empty
31  B  Disk  -  -  -
Empty
32  B  SIL   -  -  -
Disabled
33  B  SIL   -  -  -
Disabled
34  B  SIL   -  -  -
Disabled
35  B  SIL   -  -  -
Disabled
FC Ports:
      Port
      ID Port Type Status
      ---
      - - -
Errors:
-----
-
cluster1::>

```

The following example displays error information about the storage shelves that have errors:

```
cluster1::> storage shelf show -errors
Shelf Name: 1.1
    Shelf UID: 50:0a:09:80:01:cb:d6:84
    Serial Number: 6000832415
Error Type      Description
-----
Power           Critical condition is detected in storage shelf
power supply unit "1". The unit might fail.
Temperature     Critical over temperature failure for temperature
sensor "1". Current temperature: "75" C ("167" F).
```

storage shelf acp configure

Configure alternate control path (ACP)

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

Configure the ACP connectivity on the cluster.

Parameters

-is-enabled {true|false} - Is Enabled?

Configures the connectivity to the specified state.

[-subnet <IP Address>] - Subnet

Configures the connectivity to the specified subnet.

[-netmask <IP Address>] - Netmask

Configures the connectivity to the specified netmask.

[-channel {out-of-band|in-band}] - Channel

Configures the connectivity to the specified channel.

Examples

The following example configures out-of-band ACP connectivity on each node:

```
cluster1::> storage shelf acp configure -is-enabled true -channel out-of-
band -subnet 192.168.0.1 -netmask 255.255.255.0
```

The following example configures in-band ACP connectivity on each node:

```
cluster1::> storage shelf acp configure -is-enabled true -channel in-band
```

The following example disables ACP connectivity on each node:

```
cluster1::> storage shelf acp configure -is-enabled false
```

storage shelf acp show

Show connectivity information

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

Displays information about the ACP connectivity on each node

Parameters

{ [-fields <fieldname>,...]

If you specify the -fields <field-name> ", ... parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify.

| [-errors]

If you specify the -errors parameter, the command displays detailed information about all modules with errors.

| [-instance] }

If you specify the -instance parameter, the command displays detailed information about all fields.

[-node {<nodename>|local}] - Node

Selects the nodes that match this parameter value.

[-is-enabled {true|false}] - Is Enabled?

Selects the nodes that are enabled or disabled.

[-port <text>] - Port

Selects the nodes that match the specified port on which ACP is configured.

[-address <IP Address>] - IP Address

Selects the nodes with the specified IP address.

[-subnet <IP Address>] - Subnet

Selects the nodes with the specified subnet.

[-netmask <IP Address>] - Netmask

Selects the nodes with the specified netmask.

[-connection-status {no-connectivity|partial-connectivity|full-connectivity|additional-connectivity|unknown-connectivity|not-available|connection-disabled}] - Connection Status

Selects the nodes with the specified connection status.

[-error-id <integer>] - Error ID

Selects the node with the specified error ID.

[-error-type {No-Error|Connection-Issue|Connection-Activity|Module-Error|Shelf-Error}] - Error Type

The error type, in case of a connection error.

[-error-severity {unknown|notice|warning|error|critical}] - Error Severity

The error severity, in case of a connection error.

[-error-text <text>] - Error Text

Selects the node with the specified error text.

[-corrective-action <text>] - Corrective Action

Selects the node with the specified corrective action.

[-channel {unknown|out-of-band|in-band}] - Channel

Selects the nodes that has channel configured out-of-band or in-band.

Examples

The following example displays ACP connectivity on each node:

```
cluster1::> storage shelf acp show
```

| Node | Channel | Connectivity |
|-------------|-------------|-------------------|
| stor-8020-1 | in-band | active |
| stor-8020-2 | in-band | active |
| stor-8060-1 | out-of-band | full-connectivity |
| stor-8060-2 | out-of-band | full-connectivity |

4 entries were displayed.

The following example displays the -instance output of the storage acp show. More details on the connectivity and configuration can be seen [here](#).

```

cluster1::> storage shelf acp show -instance
Node: stor-8020-1
    Channel: out-of-band
    Enable Status: enabled
    Port: e0P
    IP Address: 192.168.1.74
    Subnet: 192.168.0.1
    Netmask: 255.255.252.0
    Connection Status: full-connectivity
Node: stor-8020-1
    Channel: in-band
    Enable Status: enabled
    Connection Status: active
2 entries were displayed.

```

storage shelf acp module show

Show modules connected to the cluster

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

Displays information about the modules connected to each node

Parameters

{ [-fields <fieldname>,...]

If you specify the -fields <field-name>", ... parameter, the command output also includes the specified field or fields. You can use '-fields ?' to display the fields to specify

| [-errors]

If you specify the -errors parameter, the command displays detailed information about all modules with errors.

| [-instance] }

If you specify the -instance parameter, the command displays detailed information about all fields.

[-node {<nodename>|local}] - Node

Selects the modules that match this parameter value.

[-mac-address <text>] - MAC Address

Selects the module that match the specified MAC address.

[-module-name <text>] - Module name

Selects the module that match the specified module name.

[-module-address <IP Address>] - IP Address

Selects the module that match the specified IP address.

[-protocol-version <text>] - Protocol Version

Selects the modules that match the specified protocol version.

[-firmware-version <text>] - Firmware Version

Selects the modules that match the specified firmware version.

[-acpa-id <integer>] - ACPA assigner ID

Selects the modules that match the specified ACPA ID.

[-shelf-serial-number <text>] - Shelf Serial Number

Selects the modules that match the specified shelf serial number.

[-iom-type {Unknown|iom3|iom6|iom6e|iom12|iom12e|iom12f|iom12b}] - IOM Type

Selects the modules that match the specified IOM type (IOM3/IOM6/IOM6E).

[-last-contact <integer>] - Last Contact (secs)

Selects the modules that match the specified last contact.

[-state {unknown|initializing|discovery-complete|awaiting-inband|no-inband|active|awaiting-bootp|updating-firmware|connection-error|firmware-update-required|rebooting|fail|unsupported|degraded|shelf-off}] - Local Node State

Selects the modules that match the specified state.

[-stack-id {<integer>|-}] - Stack ID

Selects the modules that match the specified stack ID.

[-shelf-id <text>] - Shelf ID

Selects the modules that match the specified shelf ID.

[-adapter-name <text>] - Adapter Name

Selects the modules that match the specified adapter name.

[-error-id <integer>,...] - Error ID

Selects the modules that match the specified error ID.

[-error-text <text>,...] - Error Text

The error text, in case of a module error.

[-corrective-action <text>,...] - Corrective Action

The corrective action, in case of a module error.

[-error-type {No-Error|Connection-Issue|Connection-Activity|Module-Error|Shelf-Error}] - Error Type

Selects the modules that match the specified error type.

[-error-severity {unknown|notice|warning|error|critical}] - Error Severity

Selects the modules that match the specified error severity.

[-power-cycle-count <integer>] - Power Cycle count

Number of times a shelf power cycle has been performed on a shelf

[-power-off-count <integer>] - Power Off count

Number of times a shelf power off has been performed on a shelf

[-power-on-count <integer>] - Power On count

Number of times a shelf power on has been performed on a shelf

[-expander-reset-count <integer>] - Expander reset count

Number of times an expander reset has been performed on a module

[-expander-power-cycle-count <integer>] - Expander power cycle count

Number of times an expander power cycle has been performed on a module

Examples

The following example displays the ACP modules connected to each node:

```
cluster1::> storage shelf acp module show
Node           Module Name      State
-----
stor-v4-1a-1b-01  1.10.A          Active
                  1.10.B          Active
                  1.254.B         Active
                  1.254.A         Active

stor-v4-1a-1b-02  1.10.A          Active
                  1.10.B          Active
                  1.254.B         Active
                  1.254.A         Active

8 entries were displayed.
```

The following example displays the -instance output of the storage shelf acp module show. More details on each module can be seen [here](#).

```
cluster1::> storage shelf acp module show -instance
Node: stor-v4-1a-1b-01
      Module Name: 1.10.A
      Mac Address: 00:a0:98:19:53:ee
      IOM Type: IOM6E
      Shelf Serial Number: SHJMS000000001A
      IP Address: 192.168.3.239
```

Protocol Version: 2.1.1.21
Assigner ID: 2.1.1.21
State: Active
Last Contact: 203
Power Cycle Count: 0
Power Off Count: 0
Power On Count: 0
Expander Reset Count: 0
Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-01
Module Name: 1.10.B
Mac Address: 00:a0:98:19:55:16
IOM Type: IOM6E
Shelf Serial Number: SHJMS000000001A
IP Address: 192.168.1.23
Protocol Version: 2.1.1.21
Assigner ID: 2.1.1.21
State: Active
Last Contact: 206
Power Cycle Count: 0
Power Off Count: 0
Power On Count: 0
Expander Reset Count: 0
Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-01
Module Name: 1.254.B
Mac Address: 00:a0:98:32:d6:ac
IOM Type: IOM6
Shelf Serial Number: 6000368103
IP Address: 192.168.2.173
Protocol Version: 1.2.2. 8
Assigner ID: 1.2.2. 8
State: Active
Last Contact: 215
Power Cycle Count: 0
Power Off Count: 0
Power On Count: 0
Expander Reset Count: 0
Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-01
Module Name: 1.254.A
Mac Address: 00:a0:98:32:d6:dc
IOM Type: IOM6
Shelf Serial Number: 6000368103
IP Address: 192.168.2.221
Protocol Version: 1.2.2. 8

```

        Assigner ID: 1.2.2. 8
            State: Active
        Last Contact: 218
    Power Cycle Count: 0
    Power Off Count: 0
    Power On Count: 0
    Expander Reset Count: 0
    Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-02
    Module Name: 1.106.A
    Mac Address: 00:a0:98:19:53:ee
    IOM Type: IOM6E
    Shelf Serial Number: SHJMS000000001A
    IP Address: 192.168.3.239
    Protocol Version: 2.1.1.21
    Assigner ID: 2.1.1.21
        State: Initializing
    Last Contact: 206
    Power Cycle Count: 0
    Power Off Count: 0
    Power On Count: 0
    Expander Reset Count: 0
    Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-02
    Module Name: 1.106.B
    Mac Address: 00:a0:98:19:55:16
    IOM Type: IOM6E
    Shelf Serial Number: SHJMS000000001A
    IP Address: 192.168.1.23
    Protocol Version: 2.1.1.21
    Assigner ID: 2.1.1.21
        State: Initializing
    Last Contact: 209
    Power Cycle Count: 0
    Power Off Count: 0
    Power On Count: 0
    Expander Reset Count: 0
    Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-02
    Module Name: 1.10.B
    Mac Address: 00:a0:98:32:d6:ac
    IOM Type: IOM6
    Shelf Serial Number: 6000368103
    IP Address: 192.168.2.173
    Protocol Version: 1.2.2.8
    Assigner ID: 1.2.2.8
```

```

                State: Initializing
                Last Contact: 217
            Power Cycle Count: 0
            Power Off Count: 0
            Power On Count: 0
        Expander Reset Count: 0
    Expander Power Cycle Count: 0
Node: stor-v4-1a-1b-02
    Module Name: 1.10.A
    Mac Address: 00:a0:98:32:d6:dc
    IOM Type: IOM6
    Shelf Serial Number: 6000368103
    IP Address: 192.168.2.221
    Protocol Version: 1.2.2.8
    Assigner ID: 1.2.2.8
        State: Initializing
        Last Contact: 220
        Power Cycle Count: 0
        Power Off Count: 0
        Power On Count: 0
    Expander Reset Count: 0
    Expander Power Cycle Count: 0

8 entries were displayed.

```

storage shelf drawer show-phy

Display a list of PHYs per drawer

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf drawer show-phy` command displays information for drawer PHYs in the storage system. If no parameters are specified, the default command displays the following information about PHYs:

- Shelf Name
- Drawer Number
- PHY Number
- Type
- SAS Address
- State

To display detailed information about a single PHY, use the `-shelf`, `-drawer`, and `-phy` parameters.

Parameters

{ [-fields <fieldname>,...]

Displays the specified fields for all drawer PHYs, in column style output.

| [-instance]

Displays expanded information for all drawer PHYs in the system. If a shelf, drawer, and PHY are specified, then this parameter displays the same detailed information for the PHY you specify as does the -shelf, -drawer, and -phy parameters.

[-shelf <text>] - Shelf Name

Displays the PHYs in the storage shelf that matches the specified shelf name.

[-drawer <integer>] - Drawer Number

Displays the PHYs in the drawers that match the specified drawer number.

[-phy <integer>] - PHY Number

Displays the PHYs that match the specified PHY number.

[-node {<nodename>|local}] - Node Name

Displays the PHYs that are present for the specified node.

[-type {unknown|disk|virtual|input}] - Type

Displays the PHYs with the specified type.

[-physical-id <integer>] - Physical ID

Displays the PHYs that match the specified physical-id.

[-sas-address <text>] - Attached SAS Address

Displays the PHYs with the specified attached sas address.

[-state-a {unknown|enabled|disabled}] - State Module A

Displays the PHYs for which module A has the specified state.

[-state-b {unknown|enabled|disabled}] - State Module B

Displays the PHYs for which module B has the specified state.

[-status-a <Drawer PHY Status>] - Status Module A

Displays the PHYs with module A currently operating under the specified status.

[-status-b <Drawer PHY Status>] - Status Module B

Displays the PHYs with module B currently operating under the specified status.

Examples

The following example displays information about all drawer PHYs:

```
cluster1::> storage shelf drawer show-phy
Shelf Drawer PHY #   Type        SAS Address          PHY State A/B
```

2.5

1

| | | | |
|----|---------|------------------|-----------------|
| 0 | disk | 00c5005079183f85 | enabled/enabled |
| 1 | disk | - | enabled/enabled |
| 2 | disk | - | enabled/enabled |
| 3 | disk | 00c50050e1183f85 | enabled/enabled |
| 4 | disk | - | enabled/enabled |
| 5 | disk | - | enabled/enabled |
| 6 | disk | 00c50050dd183f85 | enabled/enabled |
| 7 | disk | - | enabled/enabled |
| 8 | disk | - | enabled/enabled |
| 9 | disk | 00c500502d163f85 | enabled/enabled |
| 10 | disk | - | enabled/enabled |
| 11 | disk | - | enabled/enabled |
| 12 | input | 80090a5045e46f06 | enabled/enabled |
| 13 | input | 80090a5045e46f06 | enabled/enabled |
| 14 | input | 80090a5045e46f06 | enabled/enabled |
| 15 | input | 80090a5045e46f06 | enabled/enabled |
| 16 | virtual | 8a090a503dd01b17 | enabled/enabled |

2

| | | | |
|----|---------|------------------|-----------------|
| 0 | disk | 00c500503d0e3d85 | enabled/enabled |
| 1 | disk | - | enabled/enabled |
| 2 | disk | - | enabled/enabled |
| 3 | disk | 00c50050e9173f85 | enabled/enabled |
| 4 | disk | - | enabled/enabled |
| 5 | disk | - | enabled/enabled |
| 6 | disk | 00c50050a9163f85 | enabled/enabled |
| 7 | disk | - | enabled/enabled |
| 8 | disk | - | enabled/enabled |
| 9 | disk | 00c5005021173f85 | enabled/enabled |
| 10 | disk | - | enabled/enabled |
| 11 | disk | - | enabled/enabled |
| 12 | input | 80090a5045e46f06 | enabled/enabled |
| 13 | input | 80090a5045e46f06 | enabled/enabled |
| 14 | input | 80090a5045e46f06 | enabled/enabled |
| 15 | input | 80090a5045e46f06 | enabled/enabled |
| 16 | virtual | 8a090a503d90fd16 | enabled/enabled |

3

| | | | |
|---|------|------------------|-----------------|
| 0 | disk | 00c500503d163f85 | enabled/enabled |
| 1 | disk | - | enabled/enabled |
| 2 | disk | - | enabled/enabled |
| 3 | disk | 00c50050bd163f85 | enabled/enabled |
| 4 | disk | - | enabled/enabled |
| 5 | disk | - | enabled/enabled |
| 6 | disk | 00c50050c1d44085 | enabled/enabled |

| | | | | |
|---|----|---------|------------------|-----------------|
| | 7 | disk | - | enabled/enabled |
| | 8 | disk | - | enabled/enabled |
| | 9 | disk | 00c50050f1d54085 | enabled/enabled |
| | 10 | disk | - | enabled/enabled |
| | 11 | disk | - | enabled/enabled |
| | 12 | input | 80090a5045e46f06 | enabled/enabled |
| | 13 | input | 80090a5045e46f06 | enabled/enabled |
| | 14 | input | 80090a5045e46f06 | enabled/enabled |
| | 15 | input | 80090a5045e46f06 | enabled/enabled |
| | 16 | virtual | 8a090a503d202a17 | enabled/enabled |
| 4 | 0 | disk | 00c50050fdd54085 | enabled/enabled |
| | 1 | disk | - | enabled/enabled |
| | 2 | disk | - | enabled/enabled |
| | 3 | disk | 00c50050d9d44085 | enabled/enabled |
| | 4 | disk | a0cc0050e5973712 | enabled/enabled |
| | 5 | disk | - | enabled/enabled |
| | 6 | disk | 00c500506dd34085 | enabled/enabled |
| | 7 | disk | - | enabled/enabled |
| | 8 | disk | - | enabled/enabled |
| | 9 | disk | 00c5005045d64085 | enabled/enabled |
| | 10 | disk | - | enabled/enabled |
| | 11 | disk | - | enabled/enabled |
| | 12 | input | 80090a5045e46f06 | enabled/enabled |
| | 13 | input | 80090a5045e46f06 | enabled/enabled |
| | 14 | input | 80090a5045e46f06 | enabled/enabled |
| | 15 | input | 80090a5045e46f06 | enabled/enabled |
| | 16 | virtual | 8a090a503d100b17 | enabled/enabled |
| 5 | 0 | disk | 00c50050c9d54085 | enabled/enabled |
| | 1 | disk | - | enabled/enabled |
| | 2 | disk | - | enabled/enabled |
| | 3 | disk | 00c50050f9d44085 | enabled/enabled |
| | 4 | disk | - | enabled/enabled |
| | 5 | disk | - | enabled/enabled |
| | 6 | disk | 00c5005081d34085 | enabled/enabled |
| | 7 | disk | - | enabled/enabled |
| | 8 | disk | - | enabled/enabled |
| | 9 | disk | 00c500505dd64085 | enabled/enabled |
| | 10 | disk | - | enabled/enabled |
| | 11 | disk | - | enabled/enabled |
| | 12 | input | 80090a5045e46f06 | enabled/enabled |
| | 13 | input | 80090a5045e46f06 | enabled/enabled |
| | 14 | input | 80090a5045e46f06 | enabled/enabled |
| | 15 | input | 80090a5045e46f06 | enabled/enabled |
| | 16 | virtual | 8a090a503df00a17 | enabled/enabled |


```
85 entries were displayed.  
cluster1::>
```

The following example displays expanded information for PHY 0 of drawer 1 in shelf 2.5:

```
cluster1::> storage shelf drawer show-phy -shelf 2.5 -drawer 1 -phy 0  
Shelf: 2.5  
    Drawer ID: 1  
    PHY Number: 0  
        Type: disk  
    Physical ID: 1  
    SAS Address: 00c5005079183f85  
        State A: enabled  
        State B: enabled  
    Status A: enabled-12gbs  
    Status B: enabled-12gbs  
cluster1::>
```

storage shelf drawer show-slot

Display a map between bay number and drawer/slot number

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf drawer show-slot` command maps each drawer and slot number to the corresponding bay number.

Parameters

{ [-fields <fieldname>,...]

Displays the specified fields in column style output.

| [-instance]

Displays all slot information.

[-shelf <text>] - Shelf Name

Displays the slots in the shelf that matches the specified shelf name.

[-bay <integer>] - Bay Number

Displays the slots that have the specified bay number.

[-node {<nodename>|local}] - Node Name

Displays the slots that are present for the specified node.

[-drawer <integer>] - Drawer Number

Displays the slots in the drawers that match the specified drawer number.

[-slot <integer>] - Slot Number

Displays the slots that match the specified slot number.

[-is-installed {yes|no}] - Is Disk Installed

Displays the slots that have a disk installed.

Examples

The following example displays the mapping from drawer and slot number to bay number:

```
cluster1::> storage shelf drawer show-slot
Shelf  Drawer  Slot  Bay  Installed?
```

```
-----
```

```
2.5
```

```
1
```

```
0  0  yes
1  1  no
2  2  no
3  3  yes
4  4  no
5  5  no
6  6  yes
7  7  no
8  8  no
9  9  yes
10 10 no
11 11 no
```

```
2
```

```
0  12 yes
1  13 no
2  14 no
3  15 yes
4  16 no
5  17 no
6  18 yes
7  19 no
8  20 no
9  21 yes
10 22 no
11 23 no
```

```
3
```

```
0  24 yes
1  25 no
```

```

      2    26  no
      3    27  yes
      4    28  no
      5    29  no
      6    30  yes
      7    31  no
      8    32  no
      9    33  yes
     10    34  no
     11    35  no
4
      0    36  yes
      1    37  no
      2    38  no
      3    39  yes
      4    40  yes
      5    41  no
      6    42  yes
      7    43  no
      8    44  no
      9    45  yes
     10    46  no
     11    47  no
5
      0    48  yes
      1    49  no
      2    50  no
      3    51  yes
      4    52  no
      5    53  no
      6    54  yes
      7    55  no
      8    56  no
      9    57  yes
     10    58  no
     11    59  no

60 entries were displayed.
cluster1::>

```

storage shelf drawer show

Display a list of drawers

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf drawer show` command displays information for storage shelf drawers in the storage system. If no parameters are specified, the default command displays the following information for the drawers:

- Shelf Name
- Drawer Number
- Status
- Closed/Open
- Disk Count
- Firmware

To display detailed information for a single drawer, use the `-shelf` and `-drawer` parameters.

Parameters

{ [-fields <fieldname>,...]

Displays the specified fields for all drawers, in column style output.

| [-errors]

Displays the following error status information about the drawers that have errors:

- Status
- Error Description

| [-instance]

Displays expanded information for all drawers in the system. If a shelf and drawer are specified, then this parameter displays the same detailed information for the specified drawer as does the `-shelf` and `-drawer` parameters.

[-shelf <text>] - Shelf Name

Displays the drawers in the storage shelf that matches the specified shelf name.

[-drawer <integer>] - Drawer Number

Displays the drawers that match the specified drawer number.

[-node {<nodename>|local}] - Node Name

Displays the drawers that are present for the specified node.

[-disk-count <integer>] - Drawer Disk Count

Displays the drawers that have the specified disk count.

[-part-number <text>] - Part Number

Displays the drawers that have the specified part number.

[-serial-number <text>] - Serial Number

Displays the drawer that matches the specified serial number.

`[-is-closed {open|closed}] - Drawer is Closed?`

Displays the drawers that are closed or open.

`[-firmware-a <text>] - Firmware A`

Displays the drawers for which module A has the specified firmware version.

`[-firmware-b <text>] - Firmware B`

Displays the drawers for which module B has the specified firmware version.

`[-path-a {unknown|ok|degraded|none}] - Path A`

Displays the drawers for which module A has the specified path status.

`[-path-b {unknown|ok|degraded|none}] - Path B`

Displays about drawers for which module B has the specified path status.

`[-is-supported {yes|no}] - Drawer is Supported?`

Displays the drawers that are supported (TRUE) or not supported (FALSE).

`[-vendor <text>] - Vendor Name`

Displays the drawers that match the specified vendor.

`[-mfg-date <text>] - Mfg. Date`

Displays the drawers that match the specified manufactured date.

`[-fru-type <text>] - FRU Type`

Displays the drawers that match the specified FRU type.

`[-status-a {unknown|normal|warning|error|critical}] - Status A`

Displays the drawers with module A currently operating under the specified status.

`[-status-b {unknown|normal|warning|error|critical}] - Status B`

Displays the drawers with module B currently operating under the specified status.

`[-error <text>] - Error`

Displays the drawers that match the specified error description.

Examples

The following example displays information about all drawers:

```
cluster1::> storage shelf drawer show
Drawer  Disk
Shelf Drawer    Status A/B    Closed? Count    Firmware A/B
-----
2.5
      1    normal/normal    closed      4 00000634/00000634
      2    normal/normal    closed      4 00000634/00000634
      3    normal/normal    closed      4 00000634/00000634
      4    normal/normal    closed      5 00000634/00000634
      5    normal/normal    closed      4 00000634/00000634
5 entries were displayed.
cluster1::>
```

The following example displays expanded information about drawer 1 in shelf 2.5:

```
cluster1::> storage shelf drawer show -shelf 2.5 -drawer 1
Shelf: 2.5
      Drawer ID: 1
      Part Numer: 111-03071
      Serial Number: 021604008153
Drawer is Closed?: closed
      Disk Count: 4
      Firmware A: 00000634
      Firmware B: 00000634
      Path A: ok
      Path B: ok
      Status A: normal
      Status B: normal
Drawer is Supported?: yes
      Vendor Name: NETAPP
      Mfg. Date: 02/2016
      FRU Type: SASDRWR
      Error Description: -
cluster1::>
```

The following example displays error information about the drawers that have errors:

```
cluster1::> storage shelf drawer show -errors
Shelf Drawer      Status A/B      Error Description
-----
2.5
2 warning/warning Drawer open.
cluster1::>
```

storage shelf firmware show-update-status

Display the Shelf Firmware Update (SFU) Status.

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `storage shelf firmware show-update-status` command displays the state of the Shelf Firmware Update process.

Parameters

{ [-fields <fieldname>,...]

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-node <nodename>] - Node (privilege: advanced)

Selects the node that matches this parameter value.

[-update-status {running|idle}] - Disk Shelf Firmware Update Status (privilege: advanced)

Selects the nodes whose SFU process status matches this parameter value. Possible values are:

- running - Disk shelf firmware update is in progress.
- idle - Disk shelf firmware update is not in progress.

[-in-progress-count <integer>] - Number of Shelves with Earlier Revisions Being Updated (privilege: advanced)

Selects the nodes that matches the number of shelves the SFU process is updating to this parameter value. This specifies the number of shelves with earlier revisions that are being updated.

Examples

```
cluster1::*> storage shelf firmware show-update-status
```

| | Update | In-Progress |
|------------|---------|-------------|
| Node | Status | Count |
| ----- | ----- | ----- |
| cluster-n1 | running | 10 |
| cluster-n2 | idle | - |
| cluster-n3 | running | 7 |

storage shelf firmware update

Update Shelf Firmware

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `storage shelf firmware update` command updates the firmware on one or more shelves. You can download the latest firmware by using the [storage firmware download](#) command. You can specify a shelf whose firmware is to be updated by using the `-shelf` parameter. You can update the firmware on all the shelves by not providing the `-shelf` parameter. All the shelves of a specific module type can be updated by providing a value to the `-module-type` parameter.

Parameters

{ [-shelf <text>] - Shelf Name (privilege: advanced)

This specifies the name of the shelf whose firmware is to be updated.

| [-module-type {atfcx|esh4|iom3|iom6|iom6e|iom12|iom12e|iom12b}] - Shelf Module Type (privilege: advanced) }

Update the firmware on the shelves that match the module-type you specify.

[-refresh <true>] - Refresh (privilege: advanced)

Forces an update on the shelf with the highest revision of the applicable firmware, resulting in a refresh of the firmware image already present on the shelf.

Examples

The following example updates the firmware on all the shelves in the cluster:

```
cluster1::*> storage shelf firmware update
```

The following example updates the firmware on all shelves with the IOM6 module type:

```
cluster1::*> storage shelf firmware update -module-type IOM6
```


The following example updates the firmware on shelf 1.2:

```
cluster1::*> storage shelf firmware update -shelf 1.2
```

The following example refreshes the firmware on all shelves with the IOM6 module type:

```
cluster1::*> storage shelf firmware update -refresh -module-type IOM6
```

The following example refreshes the firmware on shelf 1.2:

```
cluster1::*> storage shelf firmware update -refresh -shelf 1.2
```

Related Links

- [storage firmware download](#)

storage shelf location-led modify

Modify the state of the shelf Location LED

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf location-led modify` command modifies the on/off state of the shelf location LED.

Parameters

-shelf-name <text> - Shelf Name

This parameter specifies the shelf whose LED is to be turned on or turned off.

[-led-status {on|off}] - Location LED

This parameter specifies whether the shelf location LED needs to be turned on or turned off.

Examples

The following example turns on the shelf location LED of the specified shelf.

```
cluster1::> storage shelf location-led modify -node node1 -shelf-name 1.0  
-led-status on
```

```
Info: Shelf locate request successful for shelf "1.0".
```

The following example turns off the shelf location LED of the specified shelf.

```
cluster1::> storage shelf location-led modify -node node1 -shelf-name 1.0
-led-status off
```

Info: Shelf locate request successful for shelf "1.0".

storage shelf location-led show

Display the Location LED status

Availability: This command is available to *cluster* administrators at the *admin* privilege level.

Description

The `storage shelf location-led show` command displays the state of shelf location LED.

Parameters

{ [-fields <fieldname>, ...]

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance]

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-shelf-name <text>] - Shelf Name

Selects the shelves whose shelf-name matches this parameter value.

[-node {<nodename>|local}] - Node Name

Selects the nodes that match this parameter value.

[-stack-id <integer>] - Stack ID

Selects the shelves whose stack-id matches this parameter value.

[-shelf-id <integer>] - Shelf ID

Selects the shelves whose shelf-id matches this parameter value.

[-led-status {on|off}] - Location LED

Shows the state of the shelf location LED.

Examples

The following example shows the state of the shelf location LED for each shelf.

```
cluster1::> storage shelf location-led show
```

```
Shelf Name Stack ID Shelf ID LED Status
```

```
-----  
      8.2          8          2 off  
      8.3          8          3 off  
      6.0          6          0 unsupported  
      8.1          8          1 off
```

```
4 entries were displayed.
```

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