Manage shelves

ONTAP 9.13.1 REST API reference

NetApp
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Manage shelves

Storage shelves endpoint overview

Retrieving storage shelf information

The storage shelf GET API retrieves all of the shelves in the cluster.

Examples

1) Retrieve a list of shelves from the cluster

The following example shows the response with a list of shelves in the cluster:

```
# The API:
/api/storage/shelves

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/shelves" -H "accept:
application/hal+json"

# The response:
{
"records": [
  {
    "uid": "3109174803597886800",
    "_links": {
      "self": {
        "href": "/api/storage/shelves/3109174803597886800"
      }
    }
  },
  {
    "uid": "9237728366621690448",
    "_links": {
      "self": {
        "href": "/api/storage/shelves/9237728366621690448"
      }
    }
  },
  {
    "uid": "9946762738829886800",
    "_links": {
```

```
      "self": {
        "href": "/api/storage/shelves/9946762738829886800"
      }
    }
  },
  {
    "uid": "10318311901725526608",
    "_links": {
      "self": {
        "href": "/api/storage/shelves/10318311901725526608"
      }
    }
  },
  {
    "uid": "13477584846688355664",
    "_links": {
      "self": {
        "href": "/api/storage/shelves/13477584846688355664"
      }
    }
  }
],
"num_records": 5,
"_links": {
  "self": {
    "href": "/api/storage/shelves/"
  }
}
}
```

2) Retrieve a specific shelf from the cluster

The following example shows the response of the requested shelf. If there is no shelf with the requested uid, an error is returned.

```
# The API:
/api/storage/shelves/{uid}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/shelves/3109174803597886800" -H
"accept: application/hal+json"

# The response:
```

```
{
"uid": "3109174803597886800",
"name": "6.10",
"id": "10",
"serial_number": "SHU0954292N0HAH",
"model": "DS4246",
"module_type": "iom6",
"internal": false,
"local": true,
"manufacturer": {
  "name": "NETAPP"
},
"state": "ok",
"connection_type": "sas",
"disk_count": 24,
"location_led": "off",
"paths": [
  {
    "name": "0e",
    "node": {
      "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
      "name": "node-1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-
00a0985a72ee"
        }
      }
    },
    "_links": {
      "self": {
        "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-
00a0985a72ee/0e"
      }
    }
  },
  {
    "name": "0g",
    "node": {
      "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
      "name": "node-1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-
00a0985a72ee"
        }
```

```
      }
    },
    "_links": {
      "self": {
        "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-
00a0985a72ee/0g"
      }
    }
  }
],
"bays": [
  {
    "id": 0,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 1,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 2,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 3,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 4,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 5,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
```

```
  },
  {
    "id": 6,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 7,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 8,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 9,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 10,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 11,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 12,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 13,
    "has_disk": true,
```

```
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 14,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 15,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 16,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 17,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 18,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 19,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
    "id": 20,
    "has_disk": true,
    "type": "single_disk",
    "state": "ok"
  },
  {
```

```
      "id": 21,
      "has_disk": true,
      "type": "single_disk",
      "state": "ok"
    },
    {
      "id": 22,
      "has_disk": true,
      "type": "single_disk",
      "state": "ok"
    },
    {
      "id": 23,
      "has_disk": true,
      "type": "single_disk",
      "state": "ok"
    }
  ],
  "frus": [
    {
      "type": "module",
      "id": 0,
      "state": "ok",
      "part_number": "111-00690+B2",
      "serial_number": "8001900099",
      "firmware_version": "0191",
      "installed": true
    },
    {
      "type": "module",
      "id": 1,
      "state": "ok",
      "part_number": "111-00190+B0",
      "serial_number": "7903785183",
      "firmware_version": "0191",
      "installed": true
    },
    {
      "type": "psu",
      "id": 1,
      "state": "ok",
      "part_number": "0082562-12",
      "serial_number": "PMW82562007513E",
      "firmware_version": "0311",
      "installed": true,
      "psu": {
```

```
      "model": "9C"
    }
  },
  {
    "type": "psu",
    "id": 2,
    "state": "ok",
    "part_number": "0082562-12",
    "serial_number": "PMW825620075138",
    "firmware_version": "0311",
    "installed": true,
    "psu": {
      "model": "9C"
    }
  },
  {
    "type": "psu",
    "id": 3,
    "state": "ok",
    "part_number": "0082562-12",
    "serial_number": "PMW8256200750BA",
    "firmware_version": "0311",
    "installed": true,
    "psu": {
      "model": "9C"
    }
  },
  {
    "type": "psu",
    "id": 4,
    "state": "ok",
    "part_number": "0082562-12",
    "serial_number": "PMW8256200750A2",
    "firmware_version": "0311",
    "installed": true,
    "psu": {
      "model": "9C"
    }
  }
],
"ports": [
  {
    "id": 0,
    "module_id": "a",
    "designator": "square",
    "state": "connected",
```

```
    "internal": false,
    "wwn": "500A098000C9EDBF",
    "cable": {
      "identifier": "5001086000702488-500a098000c9edbf",
      "part_number": "112-00430+A0",
      "length": "2m",
      "serial_number": "APF16510229807"
    },
    "remote": {
      "wwn": "5001086000702488",
      "phy": "08"
    }
  },
  {
    "id": 1,
    "module_id": "a",
    "designator": "circle",
    "state": "connected",
    "internal": false,
    "wwn": "500A098000C9EDBF",
    "cable": {
      "identifier": "500a098000d5c4bf-500a098000c9edbf",
      "part_number": "112-00176+A0",
      "length": "0.5-1.0m",
      "serial_number": "APF133917610YT"
    },
    "remote": {
      "wwn": "500A098000D5C4BF",
      "phy": "00"
    }
  },
  {
    "id": 2,
    "module_id": "b",
    "designator": "square",
    "state": "connected",
    "internal": false,
    "wwn": "500A098004F208BF",
    "cable": {
      "identifier": "5001086000702648-500a098004f208bf",
      "part_number": "112-00430+A0",
      "length": "2m",
      "serial_number": "APF16510229540"
    },
    "remote": {
      "wwn": "5001086000702648",
```

```
      "phy": "08"
    }
  },
  {
    "id": 3,
    "module_id": "b",
    "designator": "circle",
    "state": "connected",
    "internal": false,
    "wwn": "500A098004F208BF",
    "cable": {
      "identifier": "500a0980062ba33f-500a098004f208bf",
      "part_number": "112-00176+20",
      "length": "0.5-1.0m",
      "serial_number": "832210017"
    },
    "remote": {
      "wwn": "500A0980062BA33F",
      "phy": "00"
    }
  }
],
"fans": [
  {
    "id": 1,
    "location": "rear of the shelf on the upper left power supply",
    "rpm": 3150,
    "state": "ok",
    "installed": true
  },
  {
    "id": 2,
    "location": "rear of the shelf on the upper left power supply",
    "rpm": 3000,
    "state": "ok",
    "installed": true
  },
  {
    "id": 3,
    "location": "rear of the shelf on the upper right power supply",
    "rpm": 3220,
    "state": "ok",
    "installed": true
  },
  {
    "id": 4,
```

```
    "location": "rear of the shelf on the upper right power supply",
    "rpm": 3000,
    "state": "ok",
    "installed": true
  },
  {
    "id": 5,
    "location": "rear of the shelf on the lower left power supply",
    "rpm": 3000,
    "state": "ok",
    "installed": true
  },
  {
    "id": 6,
    "location": "rear of the shelf on the lower left power supply",
    "rpm": 3150,
    "state": "ok",
    "installed": true
  },
  {
    "id": 7,
    "location": "rear of the shelf on the lower right power supply",
    "rpm": 3150,
    "state": "ok",
    "installed": true
  },
  {
    "id": 8,
    "location": "rear of the shelf on the lower right power supply",
    "rpm": 3000,
    "state": "ok",
    "installed": true
  }
],
"temperature_sensors": [
  {
    "id": 1,
    "location": "front of the shelf on the left, on the OPS panel",
    "temperature": 20,
    "ambient": true,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 42,
        "warning": 40
```

```
      },
      "low": {
        "critical": 0,
        "warning": 5
      }
    }
  },
  {
    "id": 2,
    "location": "inside of the shelf on the midplane",
    "temperature": 29,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 55,
        "warning": 50
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 3,
    "location": "rear of the shelf on the upper left power supply",
    "temperature": 33,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 55,
        "warning": 50
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 4,
    "location": "rear of the shelf on the upper left power supply",
```

```
    "temperature": 41,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 70,
        "warning": 65
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 5,
    "location": "rear of the shelf on the upper right power supply",
    "temperature": 32,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 55,
        "warning": 50
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 6,
    "location": "rear of the shelf on the upper right power supply",
    "temperature": 41,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 70,
        "warning": 65
      },
      "low": {
```

```
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 7,
    "location": "rear of the shelf on the lower left power supply",
    "temperature": 34,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 55,
        "warning": 50
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 8,
    "location": "rear of the shelf on the lower left power supply",
    "temperature": 45,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 70,
        "warning": 65
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 9,
    "location": "rear of the shelf on the lower right power supply",
    "temperature": 30,
    "ambient": false,
```

```
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 55,
        "warning": 50
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 10,
    "location": "rear of the shelf on the lower right power supply",
    "temperature": 40,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 70,
        "warning": 65
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  },
  {
    "id": 11,
    "location": "rear of the shelf at the top left, on shelf module A",
    "temperature": 30,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 60,
        "warning": 55
      },
      "low": {
        "critical": 5,
        "warning": 10
```

```
      }
    }
  },
  {
    "id": 12,
    "location": "rear of the shelf at the top right, on shelf module B",
    "temperature": 33,
    "ambient": false,
    "state": "ok",
    "installed": true,
    "threshold": {
      "high": {
        "critical": 60,
        "warning": 55
      },
      "low": {
        "critical": 5,
        "warning": 10
      }
    }
  }
],
"voltage_sensors": [
  {
    "id": 1,
    "location": "rear of the shelf on the upper left power supply",
    "voltage": 5.11,
    "state": "ok",
    "installed": true
  },
  {
    "id": 2,
    "location": "rear of the shelf on the upper left power supply",
    "voltage": 12.38,
    "state": "ok",
    "installed": true
  },
  {
    "id": 3,
    "location": "rear of the shelf on the upper right power supply",
    "voltage": 5.11,
    "state": "ok",
    "installed": true
  },
  {
    "id": 4,
```

```
    "location": "rear of the shelf on the upper right power supply",
    "voltage": 12.26,
    "state": "ok",
    "installed": true
  },
  {
    "id": 5,
    "location": "rear of the shelf on the lower left power supply",
    "voltage": 5.7,
    "state": "ok",
    "installed": true
  },
  {
    "id": 6,
    "location": "rear of the shelf on the lower left power supply",
    "voltage": 12.26,
    "state": "ok",
    "installed": true
  },
  {
    "id": 7,
    "location": "rear of the shelf on the lower right power supply",
    "voltage": 5.15,
    "state": "ok",
    "installed": true
  },
  {
    "id": 8,
    "location": "rear of the shelf on the lower right power supply",
    "voltage": 12.3,
    "state": "ok",
    "installed": true
  }
],
"current_sensors": [
  {
    "id": 1,
    "location": "rear of the shelf on the upper left power supply",
    "current": 6990,
    "state": "ok",
    "installed": true
  },
  {
    "id": 2,
    "location": "rear of the shelf on the upper left power supply",
    "current": 5150,
```

```
    "state": "ok",
    "installed": true
  },
  {
    "id": 3,
    "location": "rear of the shelf on the upper right power supply",
    "current": 4600,
    "state": "ok",
    "installed": true
  },
  {
    "id": 4,
    "location": "rear of the shelf on the upper right power supply",
    "current": 4800,
    "state": "ok",
    "installed": true
  },
  {
    "id": 5,
    "location": "rear of the shelf on the lower left power supply",
    "current": 4140,
    "state": "ok",
    "installed": true
  },
  {
    "id": 6,
    "location": "rear of the shelf on the lower left power supply",
    "current": 7770,
    "state": "ok",
    "installed": true
  },
  {
    "id": 7,
    "location": "rear of the shelf on the lower right power supply",
    "current": 4140,
    "state": "ok",
    "installed": true
  },
  {
    "id": 8,
    "location": "rear of the shelf on the lower right power supply",
    "current": 4720,
    "state": "ok",
    "installed": true
  }
],
```

```
"acps": [
  {
    "enabled": true,
    "channel": "in_band",
    "connection_state": "active",
    "node": {
      "uuid": "cf62d23c-6100-11eb-9852-00a098fd725d",
      "name": "cat33-01",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/cf62d23c-6100-11eb-9852-
00a098fd725d"
        }
      }
    }
  },
  {
    "enabled": true,
    "channel": "in_band",
    "connection_state": "active",
    "node": {
      "uuid": "d0892dd7-6100-11eb-9cdb-d039ea010238",
      "name": "cat33-02",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/d0892dd7-6100-11eb-9cdb-
d039ea010238"
        }
      }
    }
  }
],
"_links": {
  "self": {
    "href": "/api/storage/shelves/31091748035978868800"
  }
}
}
```

Modifying storage shelf

The storage shelf PATCH API modifies the shelf location LED.

Example

```
# The API:
/api/storage/shelves

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/shelves/3109174803597886800"
-H "accept: application/hal+json" -H "Content-Type: application/hal+json"
-d '{"location_led": "on"}'

# The response:
{
}
```

Retrieve shelves

GET `/storage/shelves`

Introduced In: 9.6

Retrieves a collection of shelves.

Related ONTAP commands

- `storage shelf show`
- `storage shelf port show`
- `storage shelf drawer show`
- `storage shelf drawer show-slot`
- `storage shelf acp show`

Learn more

- DOC /storage/shelves

Parameters

Name	Type	In	Required	Description
acps.channel	string	query	False	Filter by acps.channel • Introduced in: 9.10
acps.connection_state	string	query	False	Filter by acps.connection_state • Introduced in: 9.10
acps.port	string	query	False	Filter by acps.port • Introduced in: 9.10
acps.error.severity	string	query	False	Filter by acps.error.severity • Introduced in: 9.10
acps.error.reason.arguments.message	string	query	False	Filter by acps.error.reason.arguments.message • Introduced in: 9.10
acps.error.reason.arguments.code	string	query	False	Filter by acps.error.reason.arguments.code • Introduced in: 9.10
acps.error.reason.message	string	query	False	Filter by acps.error.reason.message • Introduced in: 9.10

Name	Type	In	Required	Description
acps.error.reason.code	string	query	False	Filter by acps.error.reason.code • Introduced in: 9.10
acps.error.reason.target	string	query	False	Filter by acps.error.reason.target • Introduced in: 9.10
acps.error.type	string	query	False	Filter by acps.error.type • Introduced in: 9.10
acps.node.uuid	string	query	False	Filter by acps.node.uuid • Introduced in: 9.10
acps.node.name	string	query	False	Filter by acps.node.name • Introduced in: 9.10
acps.subnet	string	query	False	Filter by acps.subnet • Introduced in: 9.10
acps.address	string	query	False	Filter by acps.address • Introduced in: 9.10
acps.enabled	boolean	query	False	Filter by acps.enabled • Introduced in: 9.10

Name	Type	In	Required	Description
acps.netmask	string	query	False	Filter by acps.netmask • Introduced in: 9.10
id	string	query	False	Filter by id
uid	string	query	False	Filter by uid
connection_type	string	query	False	Filter by connection_type
vendor.product	string	query	False	Filter by vendor.product • Introduced in: 9.8
vendor.name	string	query	False	Filter by vendor.name • Introduced in: 9.10
vendor.part_number	string	query	False	Filter by vendor.part_number • Introduced in: 9.8
vendor.serial_number	string	query	False	Filter by vendor.serial_number • Introduced in: 9.8
vendor.manufacturer	string	query	False	Filter by vendor.manufacturer • Introduced in: 9.8
bays.state	string	query	False	Filter by bays.state
bays.id	integer	query	False	Filter by bays.id

Name	Type	In	Required	Description
bays.type	string	query	False	Filter by bays.type
bays.has_disk	boolean	query	False	Filter by bays.has_disk
bays.drawer.id	integer	query	False	Filter by bays.drawer.id • Introduced in: 9.11
bays.drawer.slot	integer	query	False	Filter by bays.drawer.slot • Introduced in: 9.11
location_led	string	query	False	Filter by location_led • Introduced in: 9.10
current_sensors.current	integer	query	False	Filter by current_sensors.current • Introduced in: 9.10
current_sensors.id	integer	query	False	Filter by current_sensors.id • Introduced in: 9.10
current_sensors.location	string	query	False	Filter by current_sensors.location • Introduced in: 9.10
current_sensors.state	string	query	False	Filter by current_sensors.state • Introduced in: 9.10

Name	Type	In	Required	Description
current_sensors.installed	boolean	query	False	Filter by current_sensors.installed • Introduced in: 9.13
errors.reason.arguments.message	string	query	False	Filter by errors.reason.arguments.message • Introduced in: 9.10
errors.reason.arguments.code	string	query	False	Filter by errors.reason.arguments.code • Introduced in: 9.10
errors.reason.message	string	query	False	Filter by errors.reason.message • Introduced in: 9.9
errors.reason.code	string	query	False	Filter by errors.reason.code • Introduced in: 9.9
errors.reason.target	string	query	False	Filter by errors.reason.target • Introduced in: 9.10
serial_number	string	query	False	Filter by serial_number
manufacturer.name	string	query	False	Filter by manufacturer.name • Introduced in: 9.10

Name	Type	In	Required	Description
model	string	query	False	Filter by model
voltage_sensors.id	integer	query	False	Filter by voltage_sensors.id • Introduced in: 9.10
voltage_sensors.location	string	query	False	Filter by voltage_sensors.location • Introduced in: 9.10
voltage_sensors.installed	boolean	query	False	Filter by voltage_sensors.installed • Introduced in: 9.13
voltage_sensors.state	string	query	False	Filter by voltage_sensors.state • Introduced in: 9.10
voltage_sensors.voltage	number	query	False	Filter by voltage_sensors.voltage • Introduced in: 9.10
drawers.error	string	query	False	Filter by drawers.error
drawers.state	string	query	False	Filter by drawers.state
drawers.closed	boolean	query	False	Filter by drawers.closed
drawers.part_number	string	query	False	Filter by drawers.part_number

Name	Type	In	Required	Description
drawers.serial_number	string	query	False	Filter by drawers.serial_number
drawers.id	integer	query	False	Filter by drawers.id
drawers.disk_count	integer	query	False	Filter by drawers.disk_count
local	boolean	query	False	Filter by local • Introduced in: 9.8
internal	boolean	query	False	Filter by internal
ports.id	integer	query	False	Filter by ports.id
ports.internal	boolean	query	False	Filter by ports.internal
ports.module_id	string	query	False	Filter by ports.module_id
ports.state	string	query	False	Filter by ports.state
ports.mac_address	string	query	False	Filter by ports.mac_address
ports.cable.identifier	string	query	False	Filter by ports.cable.identifier
ports.cable.length	string	query	False	Filter by ports.cable.length
ports.cable.part_number	string	query	False	Filter by ports.cable.part_number
ports.cable.serial_number	string	query	False	Filter by ports.cable.serial_number
ports.wwn	string	query	False	Filter by ports.wwn

Name	Type	In	Required	Description
ports.remote.device	string	query	False	Filter by ports.remote.device • Introduced in: 9.8
ports.remote.phy	string	query	False	Filter by ports.remote.phy
ports.remote.wwn	string	query	False	Filter by ports.remote.wwn
ports.remote.port	string	query	False	Filter by ports.remote.port
ports.remote.mac_address	string	query	False	Filter by ports.remote.mac_address
ports.remote.chassis	string	query	False	Filter by ports.remote.chassis
ports.designator	string	query	False	Filter by ports.designator
frus.psu.power_rating	integer	query	False	Filter by frus.psu.power_rating • Introduced in: 9.10
frus.psu.model	string	query	False	Filter by frus.psu.model • Introduced in: 9.10
frus.psu.power_drawn	integer	query	False	Filter by frus.psu.power_drawn • Introduced in: 9.10

Name	Type	In	Required	Description
frus.psu.crest_factor	integer	query	False	Filter by frus.psu.crest_factor • Introduced in: 9.10
frus.type	string	query	False	Filter by frus.type
frus.id	integer	query	False	Filter by frus.id
frus.firmware_version	string	query	False	Filter by frus.firmware_version
frus.state	string	query	False	Filter by frus.state
frus.installed	boolean	query	False	Filter by frus.installed • Introduced in: 9.10
frus.serial_number	string	query	False	Filter by frus.serial_number
frus.part_number	string	query	False	Filter by frus.part_number
fans.state	string	query	False	Filter by fans.state • Introduced in: 9.9
fans.installed	boolean	query	False	Filter by fans.installed • Introduced in: 9.13
fans.location	string	query	False	Filter by fans.location • Introduced in: 9.9

Name	Type	In	Required	Description
fans.rpm	integer	query	False	Filter by fans.rpm • Introduced in: 9.9
fans.id	integer	query	False	Filter by fans.id • Introduced in: 9.9
disk_count	integer	query	False	Filter by disk_count
state	string	query	False	Filter by state
paths.name	string	query	False	Filter by paths.name
paths.node.uuid	string	query	False	Filter by paths.node.uuid
paths.node.name	string	query	False	Filter by paths.node.name
name	string	query	False	Filter by name
temperature_sensors.threshold.low.critical	integer	query	False	Filter by temperature_sensors.threshold.low.critical • Introduced in: 9.10
temperature_sensors.threshold.low.warning	integer	query	False	Filter by temperature_sensors.threshold.low.warning • Introduced in: 9.10
temperature_sensors.threshold.high.warning	integer	query	False	Filter by temperature_sensors.threshold.high.warning • Introduced in: 9.10

Name	Type	In	Required	Description
temperature_sensors.threshold.high.critical	integer	query	False	Filter by temperature_sensors.threshold.high.critical • Introduced in: 9.10
temperature_sensors.installed	boolean	query	False	Filter by temperature_sensors.installed • Introduced in: 9.13
temperature_sensors.temperature	integer	query	False	Filter by temperature_sensors.temperature • Introduced in: 9.10
temperature_sensors.state	string	query	False	Filter by temperature_sensors.state • Introduced in: 9.10
temperature_sensors.location	string	query	False	Filter by temperature_sensors.location • Introduced in: 9.10
temperature_sensors.id	integer	query	False	Filter by temperature_sensors.id • Introduced in: 9.10
temperature_sensors.ambient	boolean	query	False	Filter by temperature_sensors.ambient • Introduced in: 9.10

Name	Type	In	Required	Description
module_type	string	query	False	Filter by module_type
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	

Name	Type	Description
num_records	integer	Number of records
records	array[shelf]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "acps": [
        {
          "address": "192.168.1.104",
          "channel": "out_of_band",
          "connection_state": "full_connectivity",
          "error": {
            "reason": {
              "arguments": [
                {
                  "code": "string",
                  "message": "string"
                }
              ],
              "code": "4",
              "message": "entry doesn't exist",
              "target": "uuid"
            },
            "severity": "string",
            "type": "string"
          },
          "netmask": "255.255.252.0",
          "node": {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "node1",
            "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
          },
          "port": "e0P",
          "subnet": "192.168.0.1"
```

```
        }
      ],
      "bays": [
        {
          "drawer": {
            "id": 1,
            "slot": 0
          },
          "id": 0,
          "state": "ok",
          "type": "single_disk"
        }
      ],
      "connection_type": "sas",
      "current_sensors": [
        {
          "current": 14410,
          "id": 1,
          "installed": 1,
          "location": "rear of the shelf on the lower left power
supply",
          "state": "ok"
        }
      ],
      "disk_count": 12,
      "drawers": [
        {
          "disk_count": 12,
          "error": "string",
          "part_number": "111-03071",
          "serial_number": "021604008263",
          "state": "ok"
        }
      ],
      "errors": [
        {
          "reason": {
            "arguments": [
              {
                "code": "string",
                "message": "string"
              }
            ],
            "code": "4",
            "message": "entry doesn't exist",
            "target": "uuid"
```

```
          }
        }
      ],
      "fans": [
        {
          "id": 1,
          "installed": 1,
          "location": "rear of the shelf on the lower left power
supply",
          "rpm": 3020,
          "state": "ok"
        }
      ],
      "frus": [
        {
          "firmware_version": "0191",
          "installed": 1,
          "part_number": "111-00690+A2",
          "psu": {
            "crest_factor": 92,
            "model": "00",
            "power_drawn": 210,
            "power_rating": 1600
          },
          "serial_number": "8000166294",
          "state": "error",
          "type": "module"
        }
      ],
      "id": "1",
      "location_led": "off",
      "manufacturer": {
        "name": "NETAPP"
      },
      "model": "DS2246",
      "module_type": "iom6",
      "name": "1.1",
      "paths": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "2a",
          "node": {
```

```
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ],
  "ports": [
    {
      "cable": {
        "identifier": "500a0980000b6c3f-50000d1703544b80",
        "length": "2m",
        "part_number": "112-00431+A0",
        "serial_number": "616930439"
      },
      "designator": "square",
      "id": 0,
      "mac_address": "string",
      "module_id": "a",
      "remote": {
        "chassis": "string",
        "device": "string",
        "mac_address": "string",
        "phy": "12",
        "port": "string",
        "wwn": "50000D1703544B80"
      },
      "state": "connected",
      "wwn": "500A0980000B6C3F"
    }
  ],
  "serial_number": "SHFMS1514000895",
  "state": "ok",
  "temperature_sensors": [
    {
      "ambient": "",
      "id": 1,
      "installed": 1,
      "location": "temp sensor on midplane left",
      "state": "ok",
      "temperature": 32,
      "threshold": {
        "high": {
```

```
              "critical": 60,
              "warning": 55
            },
            "low": {
              "critical": 0,
              "warning": 5
            }
          }
        }
      ],
      "uid": "7777841915827391056",
      "vendor": {
        "manufacturer": "XYZ",
        "name": "XYZ",
        "part_number": "A92831142733",
        "product": "LS2246",
        "serial_number": "891234572210221"
      },
      "voltage_sensors": [
        {
          "id": 1,
          "installed": 1,
          "location": "rear of the shelf on the lower left power
supply",
          "state": "ok",
          "voltage": 12.18
        }
      ]
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

error

Error object is populated when connection_state becomes non-optimal

Name	Type	Description
reason	error	
severity	string	
type	string	

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

acps

Name	Type	Description
address	string	
channel	string	
connection_state	string	
enabled	boolean	
error	error	Error object is populated when connection_state becomes non-optimal
netmask	string	
node	node	
port	string	
subnet	string	

drawer

Name	Type	Description
id	integer	The drawer containing this bay
slot	integer	The drawer slot for this bay

bays

Name	Type	Description
drawer	drawer	
has_disk	boolean	
id	integer	
state	string	

Name	Type	Description
type	string	

current_sensors

Name	Type	Description
current	integer	Current, in milliamps
id	integer	
installed	boolean	
location	string	
state	string	

drawers

Name	Type	Description
closed	boolean	
disk_count	integer	
error	string	
id	integer	
part_number	string	
serial_number	string	
state	string	

errors

Name	Type	Description
reason	error	

fans

Name	Type	Description
id	integer	
installed	boolean	
location	string	
rpm	integer	
state	string	

psu

Name	Type	Description
crest_factor	integer	The ratio of the peak voltage to the root-mean-square voltage
model	string	
power_drawn	integer	Power drawn, in watts
power_rating	integer	Power rating, in watts

frus

Name	Type	Description
firmware_version	string	
id	integer	
installed	boolean	
part_number	string	
psu	psu	
serial_number	string	
state	string	
type	string	

manufacturer

Name	Type	Description
name	string	

paths

Storage port

Name	Type	Description
_links	_links	
name	string	
node	node	

cable

Name	Type	Description
identifier	string	
length	string	

Name	Type	Description
part_number	string	
serial_number	string	

remote

Name	Type	Description
chassis	string	
device	string	
mac_address	string	
phy	string	
port	string	
wwn	string	

ports

Name	Type	Description
cable	cable	
designator	string	
id	integer	
internal	boolean	
mac_address	string	
module_id	string	
remote	remote	
state	string	
wwn	string	

high

Name	Type	Description
critical	integer	High critical threshold, in degrees Celsius
warning	integer	High warning threshold, in degrees Celsius

low

Name	Type	Description
critical	integer	Low critical threshold, in degrees Celsius
warning	integer	Low warning threshold, in degrees Celsius

threshold

Name	Type	Description
high	high	
low	low	

temperature_sensors

Name	Type	Description
ambient	boolean	Sensor that measures the ambient temperature
id	integer	
installed	boolean	
location	string	
state	string	
temperature	integer	Temperature, in degrees Celsius
threshold	threshold	

vendor

Name	Type	Description
manufacturer	string	Support for this field will be removed in a future release. Please use vendor.name for this field.
name	string	
part_number	string	Part number
product	string	Product name
serial_number	string	Serial number

voltage_sensors

Name	Type	Description
id	integer	
installed	boolean	
location	string	
state	string	
voltage	number	Voltage, in volts

shelf

Name	Type	Description
acps	array[acps]	Alternate Control Paths to ACP processors/functions in shelf modules and expanders
bays	array[bays]	
connection_type	string	
current_sensors	array[current_sensors]	
disk_count	integer	
drawers	array[drawers]	
errors	array[errors]	
fans	array[fans]	
frus	array[frus]	
id	string	
internal	boolean	
local	boolean	
location_led	string	
manufacturer	manufacturer	
model	string	
module_type	string	
name	string	
paths	array[paths]	
ports	array[ports]	
serial_number	string	
state	string	
temperature_sensors	array[temperature_sensors]	
uid	string	

Name	Type	Description
vendor	vendor	
voltage_sensors	array[voltage_sensors]	

Retrieve a shelf

GET `/storage/shelves/{uid}`

Introduced In: 9.6

Retrieves a specific shelf.

Related ONTAP commands

- `storage shelf show`
- `storage shelf port show`
- `storage shelf drawer show`
- `storage shelf drawer show-slot`
- `storage shelf acp show`

Learn more

- DOC /storage/shelves

Parameters

Name	Type	In	Required	Description
uid	string	path	True	Shelf UID
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
acps	array[acps]	Alternate Control Paths to ACP processors/functions in shelf modules and expanders
bays	array[bays]	

Name	Type	Description
connection_type	string	
current_sensors	array[current_sensors]	
disk_count	integer	
drawers	array[drawers]	
errors	array[errors]	
fans	array[fans]	
frus	array[frus]	
id	string	
internal	boolean	
local	boolean	
location_led	string	
manufacturer	manufacturer	
model	string	
module_type	string	
name	string	
paths	array[paths]	
ports	array[ports]	
serial_number	string	
state	string	
temperature_sensors	array[temperature_sensors]	
uid	string	
vendor	vendor	
voltage_sensors	array[voltage_sensors]	

Example response


```
{
  "acps": [
    {
      "address": "192.168.1.104",
      "channel": "out_of_band",
      "connection_state": "full_connectivity",
      "error": {
        "reason": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist",
          "target": "uuid"
        },
        "severity": "string",
        "type": "string"
      },
      "netmask": "255.255.252.0",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "port": "e0P",
      "subnet": "192.168.0.1"
    }
  ],
  "bays": [
    {
      "drawer": {
        "id": 1,
        "slot": 0
      },
      "id": 0,
      "state": "ok",
      "type": "single_disk"
```

```
    }
  ],
  "connection_type": "sas",
  "current_sensors": [
    {
      "current": 14410,
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "state": "ok"
    }
  ],
  "disk_count": 12,
  "drawers": [
    {
      "disk_count": 12,
      "error": "string",
      "part_number": "111-03071",
      "serial_number": "021604008263",
      "state": "ok"
    }
  ],
  "errors": [
    {
      "reason": {
        "arguments": [
          {
            "code": "string",
            "message": "string"
          }
        ],
        "code": "4",
        "message": "entry doesn't exist",
        "target": "uuid"
      }
    }
  ],
  "fans": [
    {
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "rpm": 3020,
      "state": "ok"
    }
  ],
```

```
  "frus": [
    {
      "firmware_version": "0191",
      "installed": 1,
      "part_number": "111-00690+A2",
      "psu": {
        "crest_factor": 92,
        "model": "00",
        "power_drawn": 210,
        "power_rating": 1600
      },
      "serial_number": "8000166294",
      "state": "error",
      "type": "module"
    }
  ],
  "id": "1",
  "location_led": "off",
  "manufacturer": {
    "name": "NETAPP"
  },
  "model": "DS2246",
  "module_type": "iom6",
  "name": "1.1",
  "paths": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "2a",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ],
  "ports": [
    {
      "cable": {
```

```
        "identifier": "500a0980000b6c3f-50000d1703544b80",
        "length": "2m",
        "part_number": "112-00431+A0",
        "serial_number": "616930439"
      },
      "designator": "square",
      "id": 0,
      "mac_address": "string",
      "module_id": "a",
      "remote": {
        "chassis": "string",
        "device": "string",
        "mac_address": "string",
        "phy": "12",
        "port": "string",
        "wwn": "50000D1703544B80"
      },
      "state": "connected",
      "wwn": "500A0980000B6C3F"
    }
  ],
  "serial_number": "SHFMS1514000895",
  "state": "ok",
  "temperature_sensors": [
    {
      "ambient": "",
      "id": 1,
      "installed": 1,
      "location": "temp sensor on midplane left",
      "state": "ok",
      "temperature": 32,
      "threshold": {
        "high": {
          "critical": 60,
          "warning": 55
        },
        "low": {
          "critical": 0,
          "warning": 5
        }
      }
    }
  ],
  "uid": "77778419158273910 56",
  "vendor": {
    "manufacturer": "XYZ",
```

```
    "name": "XYZ",
    "part_number": "A92831142733",
    "product": "LS2246",
    "serial_number": "891234572210221"
  },
  "voltage_sensors": [
    {
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "state": "ok",
      "voltage": 12.18
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

error

Error object is populated when connection_state becomes non-optimal

Name	Type	Description
reason	error	
severity	string	
type	string	

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	
uuid	string	

acps

Name	Type	Description
address	string	
channel	string	
connection_state	string	
enabled	boolean	
error	error	Error object is populated when connection_state becomes non-optimal
netmask	string	
node	node	
port	string	
subnet	string	

drawer

Name	Type	Description
id	integer	The drawer containing this bay
slot	integer	The drawer slot for this bay

bays

Name	Type	Description
drawer	drawer	
has_disk	boolean	
id	integer	
state	string	
type	string	

current_sensors

Name	Type	Description
current	integer	Current, in milliamps

Name	Type	Description
id	integer	
installed	boolean	
location	string	
state	string	

drawers

Name	Type	Description
closed	boolean	
disk_count	integer	
error	string	
id	integer	
part_number	string	
serial_number	string	
state	string	

errors

Name	Type	Description
reason	error	

fans

Name	Type	Description
id	integer	
installed	boolean	
location	string	
rpm	integer	
state	string	

psu

Name	Type	Description
crest_factor	integer	The ratio of the peak voltage to the root-mean-square voltage
model	string	
power_drawn	integer	Power drawn, in watts

Name	Type	Description
power_rating	integer	Power rating, in watts

frus

Name	Type	Description
firmware_version	string	
id	integer	
installed	boolean	
part_number	string	
psu	psu	
serial_number	string	
state	string	
type	string	

manufacturer

Name	Type	Description
name	string	

paths

Storage port

Name	Type	Description
_links	_links	
name	string	
node	node	

cable

Name	Type	Description
identifier	string	
length	string	
part_number	string	
serial_number	string	

remote

Name	Type	Description
chassis	string	
device	string	
mac_address	string	
phy	string	
port	string	
wwn	string	

ports

Name	Type	Description
cable	cable	
designator	string	
id	integer	
internal	boolean	
mac_address	string	
module_id	string	
remote	remote	
state	string	
wwn	string	

high

Name	Type	Description
critical	integer	High critical threshold, in degrees Celsius
warning	integer	High warning threshold, in degrees Celsius

low

Name	Type	Description
critical	integer	Low critical threshold, in degrees Celsius
warning	integer	Low warning threshold, in degrees Celsius

threshold

Name	Type	Description
high	high	
low	low	

temperature_sensors

Name	Type	Description
ambient	boolean	Sensor that measures the ambient temperature
id	integer	
installed	boolean	
location	string	
state	string	
temperature	integer	Temperature, in degrees Celsius
threshold	threshold	

vendor

Name	Type	Description
manufacturer	string	Support for this field will be removed in a future release. Please use vendor.name for this field.
name	string	
part_number	string	Part number
product	string	Product name
serial_number	string	Serial number

voltage_sensors

Name	Type	Description
id	integer	
installed	boolean	
location	string	
state	string	
voltage	number	Voltage, in volts

Update a shelf location LED

PATCH `/storage/shelves/{uid}`

Introduced In: 9.10

Updates a shelf location LED.

Related ONTAP commands

- `storage shelf location-led modify`

Learn more

- DOC /storage/shelves

Parameters

Name	Type	In	Required	Description
uid	string	path	True	Shelf UID

Request Body

Name	Type	Description
acps	array[acps]	Alternate Control Paths to ACP processors/functions in shelf modules and expanders
bays	array[bays]	
connection_type	string	
current_sensors	array[current_sensors]	
disk_count	integer	
drawers	array[drawers]	
errors	array[errors]	
fans	array[fans]	
frus	array[frus]	
id	string	
internal	boolean	
local	boolean	
location_led	string	
manufacturer	manufacturer	
model	string	

Name	Type	Description
module_type	string	
name	string	
paths	array[paths]	
ports	array[ports]	
serial_number	string	
state	string	
temperature_sensors	array[temperature_sensors]	
uid	string	
vendor	vendor	
voltage_sensors	array[voltage_sensors]	

Example request


```
{
  "acps": [
    {
      "address": "192.168.1.104",
      "channel": "out_of_band",
      "connection_state": "full_connectivity",
      "error": {
        "reason": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist",
          "target": "uuid"
        },
        "severity": "string",
        "type": "string"
      },
      "netmask": "255.255.252.0",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "port": "e0P",
      "subnet": "192.168.0.1"
    }
  ],
  "bays": [
    {
      "drawer": {
        "id": 1,
        "slot": 0
      },
      "id": 0,
      "state": "ok",
      "type": "single_disk"
```

```
    }
  ],
  "connection_type": "sas",
  "current_sensors": [
    {
      "current": 14410,
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "state": "ok"
    }
  ],
  "disk_count": 12,
  "drawers": [
    {
      "disk_count": 12,
      "error": "string",
      "part_number": "111-03071",
      "serial_number": "021604008263",
      "state": "ok"
    }
  ],
  "errors": [
    {
      "reason": {
        "arguments": [
          {
            "code": "string",
            "message": "string"
          }
        ],
        "code": "4",
        "message": "entry doesn't exist",
        "target": "uuid"
      }
    }
  ],
  "fans": [
    {
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "rpm": 3020,
      "state": "ok"
    }
  ],
```

```
  "frus": [
    {
      "firmware_version": "0191",
      "installed": 1,
      "part_number": "111-00690+A2",
      "psu": {
        "crest_factor": 92,
        "model": "00",
        "power_drawn": 210,
        "power_rating": 1600
      },
      "serial_number": "8000166294",
      "state": "error",
      "type": "module"
    }
  ],
  "id": "1",
  "location_led": "off",
  "manufacturer": {
    "name": "NETAPP"
  },
  "model": "DS2246",
  "module_type": "iom6",
  "name": "1.1",
  "paths": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "2a",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ],
  "ports": [
    {
      "cable": {
```

```
        "identifier": "500a0980000b6c3f-50000d1703544b80",
        "length": "2m",
        "part_number": "112-00431+A0",
        "serial_number": "616930439"
      },
      "designator": "square",
      "id": 0,
      "mac_address": "string",
      "module_id": "a",
      "remote": {
        "chassis": "string",
        "device": "string",
        "mac_address": "string",
        "phy": "12",
        "port": "string",
        "wwn": "50000D1703544B80"
      },
      "state": "connected",
      "wwn": "500A0980000B6C3F"
    }
  ],
  "serial_number": "SHFMS1514000895",
  "state": "ok",
  "temperature_sensors": [
    {
      "ambient": "",
      "id": 1,
      "installed": 1,
      "location": "temp sensor on midplane left",
      "state": "ok",
      "temperature": 32,
      "threshold": {
        "high": {
          "critical": 60,
          "warning": 55
        },
        "low": {
          "critical": 0,
          "warning": 5
        }
      }
    }
  ],
  "uid": "77778419158273910 56",
  "vendor": {
    "manufacturer": "XYZ",
```

```
    "name": "XYZ",
    "part_number": "A92831142733",
    "product": "LS2246",
    "serial_number": "891234572210221"
  },
  "voltage_sensors": [
    {
      "id": 1,
      "installed": 1,
      "location": "rear of the shelf on the lower left power supply",
      "state": "ok",
      "voltage": 12.18
    }
  ]
}
```


Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
17825872	Shelf locate request failed because shelf "<name>\" was not found.</name>
17825873	Shelf locate request failed because shelf "<name>\" does not support this command.</name>
17825874	Shelf locate request failed for shelf "<name>\" with an unknown error.</name>
17825875	Shelf locate request failed for shelf "<name>\" because shelf modules are unreachable.</name>

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

error

Error object is populated when connection_state becomes non-optimal

Name	Type	Description
reason	error	
severity	string	
type	string	

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	
uuid	string	

acps

Name	Type	Description
address	string	
channel	string	
connection_state	string	
enabled	boolean	
error	error	Error object is populated when connection_state becomes non-optimal
netmask	string	
node	node	
port	string	
subnet	string	

drawer

Name	Type	Description
id	integer	The drawer containing this bay
slot	integer	The drawer slot for this bay

bays

Name	Type	Description
drawer	drawer	
has_disk	boolean	
id	integer	
state	string	
type	string	

current_sensors

Name	Type	Description
current	integer	Current, in milliamps

Name	Type	Description
id	integer	
installed	boolean	
location	string	
state	string	

drawers

Name	Type	Description
closed	boolean	
disk_count	integer	
error	string	
id	integer	
part_number	string	
serial_number	string	
state	string	

errors

Name	Type	Description
reason	error	

fans

Name	Type	Description
id	integer	
installed	boolean	
location	string	
rpm	integer	
state	string	

psu

Name	Type	Description
crest_factor	integer	The ratio of the peak voltage to the root-mean-square voltage
model	string	
power_drawn	integer	Power drawn, in watts

Name	Type	Description
power_rating	integer	Power rating, in watts

frus

Name	Type	Description
firmware_version	string	
id	integer	
installed	boolean	
part_number	string	
psu	psu	
serial_number	string	
state	string	
type	string	

manufacturer

Name	Type	Description
name	string	

paths

Storage port

Name	Type	Description
_links	_links	
name	string	
node	node	

cable

Name	Type	Description
identifier	string	
length	string	
part_number	string	
serial_number	string	

remote

Name	Type	Description
chassis	string	
device	string	
mac_address	string	
phy	string	
port	string	
wwn	string	

ports

Name	Type	Description
cable	cable	
designator	string	
id	integer	
internal	boolean	
mac_address	string	
module_id	string	
remote	remote	
state	string	
wwn	string	

high

Name	Type	Description
critical	integer	High critical threshold, in degrees Celsius
warning	integer	High warning threshold, in degrees Celsius

low

Name	Type	Description
critical	integer	Low critical threshold, in degrees Celsius
warning	integer	Low warning threshold, in degrees Celsius

threshold

Name	Type	Description
high	high	
low	low	

temperature_sensors

Name	Type	Description
ambient	boolean	Sensor that measures the ambient temperature
id	integer	
installed	boolean	
location	string	
state	string	
temperature	integer	Temperature, in degrees Celsius
threshold	threshold	

vendor

Name	Type	Description
manufacturer	string	Support for this field will be removed in a future release. Please use vendor.name for this field.
name	string	
part_number	string	Part number
product	string	Product name
serial_number	string	Serial number

voltage_sensors

Name	Type	Description
id	integer	
installed	boolean	
location	string	
state	string	
voltage	number	Voltage, in volts

shelf

Name	Type	Description
acps	array[acps]	Alternate Control Paths to ACP processors/functions in shelf modules and expanders
bays	array[bays]	
connection_type	string	
current_sensors	array[current_sensors]	
disk_count	integer	
drawers	array[drawers]	
errors	array[errors]	
fans	array[fans]	
frus	array[frus]	
id	string	
internal	boolean	
local	boolean	
location_led	string	
manufacturer	manufacturer	
model	string	
module_type	string	
name	string	
paths	array[paths]	
ports	array[ports]	
serial_number	string	
state	string	
temperature_sensors	array[temperature_sensors]	
uid	string	
vendor	vendor	
voltage_sensors	array[voltage_sensors]	

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