



## **Manage shelves**

### **ONTAP 9.9.1 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,
  "state": "ok",
  "connection_type": "sas",
  "disk_count": 24,
  "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"
  },
  {
    "type": "module",
    "id": 1,
    "state": "ok",
    "part_number": "111-00190+B0",
    "serial_number": "7903785183",
    "firmware_version": "0191"
  },
  {
    "type": "psu",
    "id": 1,
    "state": "ok",
    "part_number": "0082562-12",
    "serial_number": "PMW82562007513E",
    "firmware_version": "0311"
  },
  {
    "type": "psu",
    "id": 2,
    "state": "ok",
    "part_number": "0082562-12",
    "serial_number": "PMW825620075138",
    "firmware_version": "0311"
  }
]
```

```

},
{
  "type": "psu",
  "id": 3,
  "state": "ok",
  "part_number": "0082562-12",
  "serial_number": "PMW8256200750BA",
  "firmware_version": "0311"
},
{
  "type": "psu",
  "id": 4,
  "state": "ok",
  "part_number": "0082562-12",
  "serial_number": "PMW8256200750A2",
  "firmware_version": "0311"
}
],
"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"  
  },  
  {  
    "id": 2,  
    "location": "rear of the shelf on the upper left power supply",  
    "rpm": 3000,  
    "state": "ok"  
  },  
  {  
    "id": 3,  
    "location": "rear of the shelf on the upper right power supply",  
    "rpm": 3220,  
    "state": "ok"  
  },  
  {  
    "id": 4,  
    "location": "rear of the shelf on the upper right power supply",  
    "rpm": 3000,  
    "state": "ok"  
  },  
  {  
    "id": 5,  
    "location": "rear of the shelf on the lower left power supply",  
    "rpm": 3000,  
    "state": "ok"  
  },  
  {  
    "id": 6,  
    "location": "rear of the shelf on the lower left power supply",  
    "rpm": 3150,  
    "state": "ok"  
  },  
  {  
    "id": 7,  
    "location": "rear of the shelf on the lower right power supply",  
    "rpm": 3150,  
    "state": "ok"  
  },  
  {  
    "id": 8,  
    "location": "rear of the shelf on the lower right power supply",
```

```
    "rpm": 3000,
    "state": "ok"
  },
],
"_links": {
  "self": {
    "href": "/api/storage/shelves/3109174803597886800"
  }
}
}
```

## 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`

### Learn more

- [DOC /storage/shelves](#)

### Parameters

Name	Type	In	Required	Description
uid	string	query	False	Filter by uid
paths.name	string	query	False	Filter by paths.name
paths.node.name	string	query	False	Filter by paths.node.name
paths.node.uuid	string	query	False	Filter by paths.node.uuid
disk_count	integer	query	False	Filter by disk_count

Name	Type	In	Required	Description
connection_type	string	query	False	Filter by connection_type
vendor.product	string	query	False	Filter by vendor.product <ul style="list-style-type: none"> <li>• Introduced in: 9.8</li> </ul>
vendor.part_number	string	query	False	Filter by vendor.part_number <ul style="list-style-type: none"> <li>• Introduced in: 9.8</li> </ul>
vendor.manufacturer	string	query	False	Filter by vendor.manufacturer <ul style="list-style-type: none"> <li>• Introduced in: 9.8</li> </ul>
vendor.serial_number	string	query	False	Filter by vendor.serial_number <ul style="list-style-type: none"> <li>• Introduced in: 9.8</li> </ul>
errors.reason.code	string	query	False	Filter by errors.reason.code <ul style="list-style-type: none"> <li>• Introduced in: 9.9</li> </ul>
errors.reason.message	string	query	False	Filter by errors.reason.message <ul style="list-style-type: none"> <li>• Introduced in: 9.9</li> </ul>
model	string	query	False	Filter by model
ports.internal	boolean	query	False	Filter by ports.internal
ports.mac_address	string	query	False	Filter by ports.mac_address

Name	Type	In	Required	Description
ports.designator	string	query	False	Filter by ports.designator
ports.state	string	query	False	Filter by ports.state
ports.remote.port	string	query	False	Filter by ports.remote.port
ports.remote.phy	string	query	False	Filter by ports.remote.phy
ports.remote.device	string	query	False	Filter by ports.remote.device  • Introduced in: 9.8
ports.remote.wwn	string	query	False	Filter by ports.remote.wwn
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.id	integer	query	False	Filter by ports.id
ports.wwn	string	query	False	Filter by ports.wwn
ports.cable.identifier	string	query	False	Filter by ports.cable.identifier
ports.cable.serial_number	string	query	False	Filter by ports.cable.serial_number
ports.cable.part_number	string	query	False	Filter by ports.cable.part_number
ports.cable.length	string	query	False	Filter by ports.cable.length

Name	Type	In	Required	Description
ports.module_id	string	query	False	Filter by ports.module_id
bays.has_disk	boolean	query	False	Filter by bays.has_disk
bays.state	string	query	False	Filter by bays.state
bays.id	integer	query	False	Filter by bays.id
bays.type	string	query	False	Filter by bays.type
fans.location	string	query	False	Filter by fans.location  • Introduced in: 9.9
fans.state	string	query	False	Filter by fans.state  • Introduced in: 9.9
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
name	string	query	False	Filter by name
internal	boolean	query	False	Filter by internal
frus.serial_number	string	query	False	Filter by frus.serial_number
frus.state	string	query	False	Filter by frus.state
frus.part_number	string	query	False	Filter by frus.part_number
frus.type	string	query	False	Filter by frus.type



Name	Type	In	Required	Description
frus.id	integer	query	False	Filter by frus.id
frus.firmware_version	string	query	False	Filter by frus.firmware_version
module_type	string	query	False	Filter by module_type
local	boolean	query	False	Filter by local  • Introduced in: 9.8
drawers.closed	boolean	query	False	Filter by drawers.closed
drawers.error	string	query	False	Filter by drawers.error
drawers.part_number	string	query	False	Filter by drawers.part_number
drawers.id	integer	query	False	Filter by drawers.id
drawers.disk_count	integer	query	False	Filter by drawers.disk_count
drawers.serial_number	string	query	False	Filter by drawers.serial_number
drawers.state	string	query	False	Filter by drawers.state
id	string	query	False	Filter by id
state	string	query	False	Filter by state
serial_number	string	query	False	Filter by serial_number
fields	array[string]	query	False	Specify the fields to return.

Name	Type	In	Required	Description
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">shelf</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "bays": [
        {
          "id": "0",
          "state": "ok",
          "type": "single_disk"
        }
      ],
      "connection_type": "sas",
      "disk_count": "12",
      "drawers": [
        {
          "disk_count": "12",
          "error": "string",
          "part_number": "111-03071",
          "serial_number": "021604008263",
          "state": "ok"
        }
      ],
      "errors": [
        {
          "reason": {
            "code": "string",
            "message": "string"
          }
        }
      ],
      "fans": [
        {
          "id": "1",
          "location": "rear of the shelf on the lower left power supply",
          "rpm": "3020",
          "state": "ok"
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "frus": [
    {
      "firmware_version": "0191",
      "part_number": "111-00690+A2",
      "serial_number": "8000166294",
      "state": "error",
      "type": "module"
    }
  ],
  "id": "1",
  "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",
"uid": "7777841915827391056",
"vendor": {
  "manufacturer": "XYZ",
  "part_number": "A92831142733",
  "product": "LS2246",
  "serial_number": "891234572210221"
}
]
}

```

## 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	<a href="#">href</a>	
self	<a href="#">href</a>	

bays

Name	Type	Description
has_disk	boolean	
id	integer	
state	string	
type	string	

drawers

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

reason

Name	Type	Description
code	string	Error code
message	string	Error message

errors

Name	Type	Description
reason	<a href="#">reason</a>	

fans

Name	Type	Description
id	integer	
location	string	
rpm	integer	
state	string	

frus

Name	Type	Description
firmware_version	string	
id	integer	
part_number	string	
serial_number	string	
state	string	
type	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

paths

Storage port

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
node	<a href="#">node</a>	



## 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	<a href="#">cable</a>	
designator	string	
id	integer	
internal	boolean	
mac_address	string	
module_id	string	
remote	<a href="#">remote</a>	
state	string	
wwn	string	

## vendor

Name	Type	Description
manufacturer	string	Manufacturer name
part_number	string	Part number
product	string	Product name

Name	Type	Description
serial_number	string	Serial number

#### shelf

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

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## 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`

### 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
bays	array[bays]	
connection_type	string	

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

## Example response

```
{
  "bays": [
    {
      "id": "0",
      "state": "ok",
      "type": "single_disk"
    }
  ],
  "connection_type": "sas",
  "disk_count": "12",
  "drawers": [
    {
      "disk_count": "12",
      "error": "string",
      "part_number": "111-03071",
      "serial_number": "021604008263",
      "state": "ok"
    }
  ],
  "errors": [
    {
      "reason": {
        "code": "string",
        "message": "string"
      }
    }
  ],
  "fans": [
    {
      "id": "1",
      "location": "rear of the shelf on the lower left power supply",
      "rpm": "3020",
      "state": "ok"
    }
  ],
  "frus": [
    {
      "firmware_version": "0191",
      "part_number": "111-00690+A2",
      "serial_number": "8000166294",
      "state": "error",
      "type": "module"
    }
  ],
}
```

```

"id": "1",
"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",
"uid": "7777841915827391056",
"vendor": {
  "manufacturer": "XYZ",
  "part_number": "A92831142733",
  "product": "LS2246",
  "serial_number": "891234572210221"
}
}
```

## 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

### bays

Name	Type	Description
has_disk	boolean	
id	integer	
state	string	
type	string	

### drawers

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

### reason

Name	Type	Description
code	string	Error code
message	string	Error message

### errors

Name	Type	Description
reason	<a href="#">reason</a>	

### fans

Name	Type	Description
id	integer	
location	string	
rpm	integer	
state	string	



## frus

Name	Type	Description
firmware_version	string	
id	integer	
part_number	string	
serial_number	string	
state	string	
type	string	

## href

Name	Type	Description
href	string	

## \_links

Name	Type	Description
self	<a href="#">href</a>	

## node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

## paths

### Storage port

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
node	<a href="#">node</a>	

### cable

Name	Type	Description
identifier	string	
length	string	
part_number	string	

Name	Type	Description
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	<a href="#">cable</a>	
designator	string	
id	integer	
internal	boolean	
mac_address	string	
module_id	string	
remote	<a href="#">remote</a>	
state	string	
wwn	string	

vendor

Name	Type	Description
manufacturer	string	Manufacturer name
part_number	string	Part number
product	string	Product name
serial_number	string	Serial number

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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