



# **Manage storage tape devices**

## **REST API reference**

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# Manage storage tape devices

## Manage storage tape devices

### Retrieving storage tape information

The storage tape GET API retrieves all of the tapes in the cluster.

### Examples

#### 1) Retrieving a list of tapes from the cluster

The following example returns the list of tapes in the cluster:

```
# The API:
/api/storage/tape-devices

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

# The response:
{
  "records": [
    {
      "node": {
        "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
        "name": "st-8020-1-01",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-
00a0985ebbe7"
          }
        }
      },
      "device_id": "2d.0",
      "_links": {
        "self": {
          "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-
00a0985ebbe7/2d.0"
        }
      }
    },
  ]
}
```

```

{
  "node": {
    "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
    "name": "st-8020-1-01",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
      }
    }
  },
  "device_id": "2d.0L1",
  "_links": {
    "self": {
      "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/2d.0L1"
    }
  }
},
{
  "node": {
    "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
    "name": "st-8020-1-01",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
      }
    }
  },
  "device_id": "qeg-tape-brocade2-8g:0.126",
  "_links": {
    "self": {
      "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/qeg-tape-brocade2-8g%3A0.126"
    }
  }
},
{
  "node": {
    "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
    "name": "st-8020-1-01",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
      }
    }
  }
}

```

```

    }
  },
  "device_id": "stsw-broc6510-01:11.126",
  "_links": {
    "self": {
      "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/stsw-broc6510-01%3A11.126"
    }
  }
},
{
  "node": {
    "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
    "name": "st-8020-1-01",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
      }
    }
  },
  "device_id": "stsw-broc6510-01:15.126",
  "_links": {
    "self": {
      "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/stsw-broc6510-01%3A15.126"
    }
  }
},
{
  "node": {
    "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
    "name": "st-8020-1-01",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
      }
    }
  },
  "device_id": "stsw-broc6510-01:15.126L1",
  "_links": {
    "self": {
      "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/stsw-broc6510-01%3A15.126L1"
    }
  }
}

```

```

    }
  },
  {
    "node": {
      "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
      "name": "st-8020-1-01",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
        }
      }
    },
    "device_id": "stsw-broc6510-01:22.126",
    "_links": {
      "self": {
        "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/stsw-broc6510-01%3A22.126"
      }
    }
  },
  {
    "node": {
      "uuid": "4083be52-5315-11eb-a839-00a0985ebbe7",
      "name": "st-8020-1-01",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/4083be52-5315-11eb-a839-00a0985ebbe7"
        }
      }
    },
    "device_id": "stsw-broc6510-01:23.126",
    "_links": {
      "self": {
        "href": "/api/storage/tape-devices/4083be52-5315-11eb-a839-00a0985ebbe7/stsw-broc6510-01%3A23.126"
      }
    }
  },
],
"num_records": 7,
_links": {
  "self": {
    "href": "/api/storage/tape-devices"
  }
}

```

```
}  
}  
}
```

## 2) Retrieving a specific tape device from the cluster

The following example returns the requested tape device. If there is no tape with the requested UID, an error is returned.

```
# The API:  
/api/storage/tape-devices/{node.uuid}/{device_id}  
  
# The call:  
curl -X GET "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json"  
  
# The response:  
{  
  "node": {  
    "uuid": "5f5275eb-5315-11eb-8ac4-00a0985e0dcf",  
    "name": "st-8020-1-02",  
    "_links": {  
      "self": {  
        "href": "/api/cluster/nodes/5f5275eb-5315-11eb-8ac4-00a0985e0dcf"  
      }  
    }  
  },  
  "device_id": "2d.0",  
  "type": "tape",  
  "description": "IBM LTO-6 ULT3580",  
  "alias": {  
    "name": "st7",  
    "mapping": "SN[1068000245]"  
  },  
  "aliases": [  
    {  
      "name": "st7",  
      "mapping": "SN[1068000245]"  
    }  
  ],  
  "wwnn": "5001697722ee0010",  
  "wwpn": "5001697722ee0011",  
  "serial_number": "1068000245",
```

```

"interface": "sas",
"device_state": "offline",
"formats": [
  "LTO-4/5 Native Density",
  "LTO-4/5 Compressed",
  "LTO-6 2.5TB",
  "LTO-6 6.25TB Compressed"
],
"storage_port": {
  "name": "2d"
},
"file_number": -1,
"block_number": -1,
"residual_count": 0,
"density": "low",
"device_names": [
  {
    "rewind_device": "rst0l",
    "no_rewind_device": "nrst0l",
    "unload_reload_device": "urst0l"
  },
  {
    "rewind_device": "rst0m",
    "no_rewind_device": "nrst0m",
    "unload_reload_device": "urst0m"
  },
  {
    "rewind_device": "rst0h",
    "no_rewind_device": "nrst0h",
    "unload_reload_device": "urst0h"
  },
  {
    "rewind_device": "rst0a",
    "no_rewind_device": "nrst0a",
    "unload_reload_device": "urst0a"
  }
],
"reservation_type": "off",
"_links": {
  "self": {
    "href": "/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0"
  }
}
}

```

---

## Updating a tape device

The tape PATCH API allows the tape device to be set online or offline, positioned, and given an alias.

---

### Examples

#### 1) Taking a tape device offline

The following example takes a tape device offline:

---

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"online": "false"}'

# The response:
{
  "job": {
    "uuid": "9e544626-306e-11ec-8c2e-00a098b81daa",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/9e544626-306e-11ec-8c2e-00a098b81daa"
      }
    }
  }
}
```

---

#### 2) Bringing a tape device online

The following example brings a tape device online:

---

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"online": "true"}'

# The response:
{
  "job": {
    "uuid": "9e544626-306e-11ec-8c2e-00a098b81daa",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/9e544626-306e-11ec-8c2e-00a098b81daa"
      }
    }
  }
}
```

---

### 3) Giving a tape device an alias

The following example assigns an alias to a tape device:

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"aliases": [{"name": "st0"}]}'

# The response:
{
}
```

---

### 4) Removing a tape device's aliases

The following example clears any aliases previously assigned to a tape device:

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"aliases": []}'

# The response:
{
}
```

---

## 5) Rewinding a tape device

The following example rewinds a tape device:

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"position": {"operation": "rewind"}}'

# The response:
{
  "job": {
    "uuid": "9e544626-306e-11ec-8c2e-00a098b81daa",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/9e544626-306e-11ec-8c2e-00a098b81daa"
      }
    }
  }
}
```

---

## 6) Forwarding the tape five files

The following example moves the tape forward five file records:

```
# The API:
/api/storage/tape-devices/{node.uuid}/{device_id}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/tape-devices/5f5275eb-5315-11eb-8ac4-00a0985e0dcf/2d.0" -H "accept: application/hal+json" -H "Content-Type: application/hal_json" -d '{"position": {"operation": "fsf", "count": 5}}'
```

```
# The response:
{
  "job": {
    "uuid": "954c20d5-306e-11ec-8c2e-00a098b81daa",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/954c20d5-306e-11ec-8c2e-00a098b81daa"
      }
    }
  }
}
```

## Retrieve tape devices

GET /storage/tape-devices

**Introduced In:** 9.9

Retrieves a collection of tape devices.

### Related ONTAP commands

- `storage tape show`

### Learn more

- [DOC /storage/tape-devices](#)

### Parameters

| Name              | Type   | In    | Required | Description                 |
|-------------------|--------|-------|----------|-----------------------------|
| storage_port.name | string | query | False    | Filter by storage_port.name |

| Name             | Type    | In    | Required | Description                                            |
|------------------|---------|-------|----------|--------------------------------------------------------|
| online           | boolean | query | False    | Filter by online<br><br>• Introduced in: 9.11          |
| block_number     | integer | query | False    | Filter by block_number                                 |
| residual_count   | integer | query | False    | Filter by residual_count                               |
| interface        | string  | query | False    | Filter by interface                                    |
| density          | string  | query | False    | Filter by density<br><br>• Introduced in: 9.11         |
| type             | string  | query | False    | Filter by type                                         |
| node.uuid        | string  | query | False    | Filter by node.uuid                                    |
| node.name        | string  | query | False    | Filter by node.name                                    |
| description      | string  | query | False    | Filter by description                                  |
| wwpn             | string  | query | False    | Filter by wwpn                                         |
| reservation_type | string  | query | False    | Filter by reservation_type                             |
| aliases.name     | string  | query | False    | Filter by aliases.name<br><br>• Introduced in: 9.11    |
| aliases.mapping  | string  | query | False    | Filter by aliases.mapping<br><br>• Introduced in: 9.11 |
| device_id        | string  | query | False    | Filter by device_id                                    |
| wwnn             | string  | query | False    | Filter by wwnn                                         |

| Name                              | Type          | In    | Required | Description                                                                                                                                                               |
|-----------------------------------|---------------|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| formats                           | string        | query | False    | Filter by formats                                                                                                                                                         |
| alias.name                        | string        | query | False    | Filter by alias.name                                                                                                                                                      |
| alias.mapping                     | string        | query | False    | Filter by alias.mapping                                                                                                                                                   |
| file_number                       | integer       | query | False    | Filter by file_number                                                                                                                                                     |
| serial_number                     | string        | query | False    | Filter by serial_number                                                                                                                                                   |
| device_state                      | string        | query | False    | Filter by device_state                                                                                                                                                    |
| device_names.no_rewind_device     | string        | query | False    | Filter by device_names.no_rewind_device                                                                                                                                   |
| device_names.unload_reload_device | string        | query | False    | Filter by device_names.unload_reload_device                                                                                                                               |
| device_names.rewind_device        | string        | query | False    | Filter by device_names.rewind_device                                                                                                                                      |
| 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    | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul> |

| Name           | Type          | In    | Required | Description                                                                                                                                                                                                                                                                                                                                           |
|----------------|---------------|-------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer       | query | False    | <p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 15</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[tape_device]     |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "alias": {
        "mapping": "SN[10WT000933]",
        "name": "st6"
      },
      "aliases": [
        {
          "mapping": "SN[10WT000933]",
          "name": "st6"
        }
      ],
      "block_number": 0,
      "density": "low",
      "description": "QUANTUM LTO-8 ULTRIUM",
      "device_id": "1a.0",
      "device_names": [
        {
          "no_rewind_device": "nrst6l",
          "rewind_device": "rst6l",
          "unload_reload_device": "urst6l"
        }
      ],
      "device_state": "read_write_enabled",
      "file_number": 0,
      "formats": [
        "LTO-7 6TB",
        "LTO-7 15TB Compressed",
        "LTO-8 12TB",
        "LTO-8 30TB Compressed"
      ],
      "interface": "sas",
      "node": {
        "_links": {
```

```

        "self": {
            "href": "/api/resourcelink"
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "position": {
        "count": 5,
        "operation": "rewind"
    },
    "reservation_type": "off",
    "residual_count": 0,
    "serial_number": "10WT00093",
    "storage_port": {
        "name": "2b"
    },
    "type": "tape",
    "wwnn": "500507631295741c",
    "wwpn": "500507631295741c"
}
]
}

```

## Error

Status: Default, Error

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_error</a> |             |

### 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> |             |

alias

| Name    | Type   | Description                                                                              |
|---------|--------|------------------------------------------------------------------------------------------|
| mapping | string | This field will no longer be supported in a future release. Use aliases.mapping instead. |
| name    | string | This field will no longer be supported in a future release. Use aliases.name instead.    |

aliases

| Name    | Type   | Description    |
|---------|--------|----------------|
| mapping | string | Alias mapping. |
| name    | string | Alias name.    |

device\_names

| Name                 | Type   | Description                                  |
|----------------------|--------|----------------------------------------------|
| no_rewind_device     | string | Device name for no rewind.                   |
| rewind_device        | string | Device name for rewind.                      |
| unload_reload_device | string | Device name for unload or reload operations. |

\_links

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

node

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

position

| Name      | Type    | Description                                |
|-----------|---------|--------------------------------------------|
| count     | integer | Number of times to run position operation. |
| operation | string  | Position operation.                        |

storage\_port

| Name | Type   | Description     |
|------|--------|-----------------|
| name | string | Initiator port. |

tape\_device

| Name         | Type                                  | Description                      |
|--------------|---------------------------------------|----------------------------------|
| alias        | <a href="#">alias</a>                 |                                  |
| aliases      | array[ <a href="#">aliases</a> ]      |                                  |
| block_number | integer                               | Block number.                    |
| density      | string                                | Density.                         |
| description  | string                                |                                  |
| device_id    | string                                |                                  |
| device_names | array[ <a href="#">device_names</a> ] |                                  |
| device_state | string                                | Operational state of the device. |
| file_number  | integer                               | File number.                     |
| formats      | array[string]                         | Tape cartridge format.           |

| Name             | Type                         | Description                               |
|------------------|------------------------------|-------------------------------------------|
| interface        | string                       | Device interface type.                    |
| node             | <a href="#">node</a>         |                                           |
| online           | boolean                      |                                           |
| position         | <a href="#">position</a>     |                                           |
| reservation_type | string                       |                                           |
| residual_count   | integer                      | Residual count of the last I/O operation. |
| serial_number    | string                       |                                           |
| storage_port     | <a href="#">storage_port</a> |                                           |
| type             | string                       | Device type.                              |
| wwnn             | string                       | World Wide Node Name.                     |
| wwpn             | string                       | World Wide Port Name.                     |

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### returned\_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. |

## Retrieve a tape device

GET /storage/tape-devices/{node.uuid}/{device\_id}

**Introduced In:** 9.9

Retrieves a specific tape device.

## Related ONTAP commands

- `storage tape show`

## Learn more

- [DOC /storage/tape-devices](#)

## Parameters

| Name      | Type          | In    | Required | Description                   |
|-----------|---------------|-------|----------|-------------------------------|
| node.uuid | string        | path  | True     | Node UUID                     |
| device_id | string        | path  | True     | Device ID                     |
| fields    | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name         | Type                                  | Description                      |
|--------------|---------------------------------------|----------------------------------|
| alias        | <a href="#">alias</a>                 |                                  |
| aliases      | array[ <a href="#">aliases</a> ]      |                                  |
| block_number | integer                               | Block number.                    |
| density      | string                                | Density.                         |
| description  | string                                |                                  |
| device_id    | string                                |                                  |
| device_names | array[ <a href="#">device_names</a> ] |                                  |
| device_state | string                                | Operational state of the device. |
| file_number  | integer                               | File number.                     |
| formats      | array[string]                         | Tape cartridge format.           |

| Name             | Type                         | Description                               |
|------------------|------------------------------|-------------------------------------------|
| interface        | string                       | Device interface type.                    |
| node             | <a href="#">node</a>         |                                           |
| online           | boolean                      |                                           |
| position         | <a href="#">position</a>     |                                           |
| reservation_type | string                       |                                           |
| residual_count   | integer                      | Residual count of the last I/O operation. |
| serial_number    | string                       |                                           |
| storage_port     | <a href="#">storage_port</a> |                                           |
| type             | string                       | Device type.                              |
| wwnn             | string                       | World Wide Node Name.                     |
| wwpn             | string                       | World Wide Port Name.                     |

## Example response

```
{
  "alias": {
    "mapping": "SN[10WT000933]",
    "name": "st6"
  },
  "aliases": [
    {
      "mapping": "SN[10WT000933]",
      "name": "st6"
    }
  ],
  "block_number": 0,
  "density": "low",
  "description": "QUANTUM LTO-8 ULTRIUM",
  "device_id": "1a.0",
  "device_names": [
    {
      "no_rewind_device": "nrst6l",
      "rewind_device": "rst6l",
      "unload_reload_device": "urst6l"
    }
  ],
  "device_state": "read_write_enabled",
  "file_number": 0,
  "formats": [
    "LTO-7 6TB",
    "LTO-7 15TB Compressed",
    "LTO-8 12TB",
    "LTO-8 30TB Compressed"
  ],
  "interface": "sas",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "position": {
    "count": 5,
    "operation": "rewind"
  },
}
```

```
"reservation_type": "off",
"residual_count": 0,
"serial_number": "10WT00093",
"storage_port": {
  "name": "2b"
},
"type": "tape",
"wwnn": "500507631295741c",
"wwpn": "500507631295741c"
}
```

## Error

Status: Default, Error

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_error</a> |             |

## Example error

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

## Definitions

## See Definitions

alias

| Name    | Type   | Description                                                                              |
|---------|--------|------------------------------------------------------------------------------------------|
| mapping | string | This field will no longer be supported in a future release. Use aliases.mapping instead. |
| name    | string | This field will no longer be supported in a future release. Use aliases.name instead.    |

aliases

| Name    | Type   | Description    |
|---------|--------|----------------|
| mapping | string | Alias mapping. |
| name    | string | Alias name.    |

device\_names

| Name                 | Type   | Description                                  |
|----------------------|--------|----------------------------------------------|
| no_rewind_device     | string | Device name for no rewind.                   |
| rewind_device        | string | Device name for rewind.                      |
| unload_reload_device | string | Device name for unload or reload operations. |

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 | Type   | Description |
|------|--------|-------------|
| name | string |             |
| uuid | string |             |

position

| Name      | Type    | Description                                |
|-----------|---------|--------------------------------------------|
| count     | integer | Number of times to run position operation. |
| operation | string  | Position operation.                        |

storage\_port

| Name | Type   | Description     |
|------|--------|-----------------|
| name | string | Initiator port. |

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_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. |

## Update a tape device

PATCH /storage/tape-devices/{node.uuid}/{device\_id}

Introduced In: 9.11

Updates a specific tape device.

## Related ONTAP commands

- `storage tape alias-set`
- `storage tape alias-clear`
- `storage tape online`
- `storage tape offline`
- `storage tape position`

## Learn more

- [DOC /storage/tape-devices](#)

## Parameters

| Name      | Type   | In   | Required | Description |
|-----------|--------|------|----------|-------------|
| node.uuid | string | path | True     | Node UUID   |
| device_id | string | path | True     | Device ID   |

| Name           | Type    | In    | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False    | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> <li>• Default value: 0</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |

## Request Body

| Name         | Type                                  | Description   |
|--------------|---------------------------------------|---------------|
| alias        | <a href="#">alias</a>                 |               |
| aliases      | array[ <a href="#">aliases</a> ]      |               |
| block_number | integer                               | Block number. |
| density      | string                                | Density.      |
| description  | string                                |               |
| device_id    | string                                |               |
| device_names | array[ <a href="#">device_names</a> ] |               |

| Name             | Type                         | Description                               |
|------------------|------------------------------|-------------------------------------------|
| device_state     | string                       | Operational state of the device.          |
| file_number      | integer                      | File number.                              |
| formats          | array[string]                | Tape cartridge format.                    |
| interface        | string                       | Device interface type.                    |
| node             | <a href="#">node</a>         |                                           |
| online           | boolean                      |                                           |
| position         | <a href="#">position</a>     |                                           |
| reservation_type | string                       |                                           |
| residual_count   | integer                      | Residual count of the last I/O operation. |
| serial_number    | string                       |                                           |
| storage_port     | <a href="#">storage_port</a> |                                           |
| type             | string                       | Device type.                              |
| wwnn             | string                       | World Wide Node Name.                     |
| wwpn             | string                       | World Wide Port Name.                     |

## Example request

```
{
  "alias": {
    "mapping": "SN[10WT000933]",
    "name": "st6"
  },
  "aliases": [
    {
      "mapping": "SN[10WT000933]",
      "name": "st6"
    }
  ],
  "block_number": 0,
  "density": "low",
  "description": "QUANTUM LTO-8 ULTRIUM",
  "device_id": "1a.0",
  "device_names": [
    {
      "no_rewind_device": "nrst6l",
      "rewind_device": "rst6l",
      "unload_reload_device": "urst6l"
    }
  ],
  "device_state": "read_write_enabled",
  "file_number": 0,
  "formats": [
    "LTO-7 6TB",
    "LTO-7 15TB Compressed",
    "LTO-8 12TB",
    "LTO-8 30TB Compressed"
  ],
  "interface": "sas",
  "node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "position": {
    "count": 5,
    "operation": "rewind"
  },
  "reservation_type": "off",
  "residual_count": 0,
  "serial_number": "10WT00093",
  "storage_port": {
    "name": "2b"
  }
}
```

```

},
"type": "tape",
"wnnn": "500507631295741c",
"wpn": "500507631295741c"
}

```

## Response

Status: 200, Ok

## Response

Status: 202, Accepted

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                                                                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11403264   | Tape operation "<operation>" failed on tape device \"<device_id>\". This may indicate tape reached end of data, a hardware error, an illegal request, an invalid name format, or an aborted command.</device_id></operation> |
| 11403265   | Tape operation "<operation>" failed because it encountered an unexpected file mark on tape device \"<device_id>\".</device_id></operation>                                                                                   |
| 11403266   | Internal error. Unknown tape parameter for tape device "<device_id>\".</device_id>                                                                                                                                           |
| 11403267   | Tape device "<device_id>" is busy.</device_id>                                                                                                                                                                               |
| 11403268   | No tape loaded for "<operation>" operation on tape drive \"<device_id>\".</device_id></operation>                                                                                                                            |
| 11403269   | Tape device "<device_id>" unknown.</device_id>                                                                                                                                                                               |
| 11403270   | Tape alias name "<alias>" already exists.</alias>                                                                                                                                                                            |
| 11403271   | The format of the tape alias name "<alias>" is invalid. Use \"st\" or \"mc\" followed by one or more digits.</alias>                                                                                                         |

| Error Code | Description                                                                                             |
|------------|---------------------------------------------------------------------------------------------------------|
| 11403273   | Internal error. Tape alias name "<alias>" not saved.</alias>                                            |
| 11403274   | Internal error. Tape alias operation "<operation>" for alias name "<alias>" failed.</alias></operation> |
| 11403275   | Tape alias name "<alias>" not found.</alias>                                                            |
| 11403277   | Tape device "<device_id>" is reserved by another host.</device_id>                                      |
| 11403278   | Invalid count value specified with operation "<operation>". Valid values are from 0 to {1}.</operation> |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

## Definitions

## See Definitions

alias

| Name    | Type   | Description                                                                              |
|---------|--------|------------------------------------------------------------------------------------------|
| mapping | string | This field will no longer be supported in a future release. Use aliases.mapping instead. |
| name    | string | This field will no longer be supported in a future release. Use aliases.name instead.    |

aliases

| Name    | Type   | Description    |
|---------|--------|----------------|
| mapping | string | Alias mapping. |
| name    | string | Alias name.    |

device\_names

| Name                 | Type   | Description                                  |
|----------------------|--------|----------------------------------------------|
| no_rewind_device     | string | Device name for no rewind.                   |
| rewind_device        | string | Device name for rewind.                      |
| unload_reload_device | string | Device name for unload or reload operations. |

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

node

| Name | Type   | Description |
|------|--------|-------------|
| name | string |             |
| uuid | string |             |

position

| Name      | Type    | Description                                |
|-----------|---------|--------------------------------------------|
| count     | integer | Number of times to run position operation. |
| operation | string  | Position operation.                        |

storage\_port

| Name | Type   | Description     |
|------|--------|-----------------|
| name | string | Initiator port. |

tape\_device

| Name             | Type                                  | Description                               |
|------------------|---------------------------------------|-------------------------------------------|
| alias            | <a href="#">alias</a>                 |                                           |
| aliases          | array[ <a href="#">aliases</a> ]      |                                           |
| block_number     | integer                               | Block number.                             |
| density          | string                                | Density.                                  |
| description      | string                                |                                           |
| device_id        | string                                |                                           |
| device_names     | array[ <a href="#">device_names</a> ] |                                           |
| device_state     | string                                | Operational state of the device.          |
| file_number      | integer                               | File number.                              |
| formats          | array[string]                         | Tape cartridge format.                    |
| interface        | string                                | Device interface type.                    |
| node             | <a href="#">node</a>                  |                                           |
| online           | boolean                               |                                           |
| position         | <a href="#">position</a>              |                                           |
| reservation_type | string                                |                                           |
| residual_count   | integer                               | Residual count of the last I/O operation. |
| serial_number    | string                                |                                           |
| storage_port     | <a href="#">storage_port</a>          |                                           |

| Name | Type   | Description           |
|------|--------|-----------------------|
| type | string | Device type.          |
| wwnn | string | World Wide Node Name. |
| wwpn | string | World Wide Port Name. |

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### returned\_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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