



Retrieve network Ethernet switch ports

REST API reference

NetApp

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Table of Contents

- Retrieve network Ethernet switch ports 1
 - Retrieve network Ethernet switch ports 1
 - Overview 1
 - Examples 1
 - Retrieve Ethernet switch ports 8
 - Related ONTAP commands 8
 - Learn more 8
 - Parameters 8
 - Response 12
 - Error 15
 - Definitions 15
 - Retrieve an Ethernet switch port 20
 - Related ONTAP commands 20
 - Parameters 20
 - Response 21
 - Error 24
 - Definitions 25

Retrieve network Ethernet switch ports

Retrieve network Ethernet switch ports

Overview

This API can be used to get the port information for an ethernet switch used in a cluster or storage networks. This API supports GET only. The GET operation returns a list of ports with status and configuration information.

Examples

Retrieving the ports for ethernet switches

The following example retrieves the ethernet switch ports for all the ethernet switches used for cluster and/or storage networks. Note that if the *fields=** parameter is not specified, the fields identity.number, statistics, and mac_address are not returned. Filters can be added on the fields to limit the results.

```
# The API:
GET /network/ethernet/switch/ports

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ethernet/switch/ports?fields=*"
-H "accept: application/hal+json" -H "Content-Type:
application/hal+json"

# The response: (abbreviated output due to length, shows a port connected
to a node, a port with no remote connection and a port connected to shelf)
{
  "records": [
    {
      "switch": {
        "name": "RTP-CS01-510R11 (FOC22092K12) ",
        "_links": {
          "self": {
            "href": "/api/network/ethernet/switches/RTP-CS01-
510R11 (FOC22092K12) "
          }
        }
      },
      "identity": {
        "name": "Ethernet1/1",
        "index": 436207616,
        "number": 1,
        "type": "ethernetcsmacd"
      },
      "mtu": 9216,
```

```

"duplex_type": "full_duplex",
"speed": 100000,
"configured": "up",
"state": "up",
"isl": false,
"vpc_peer_link": false,
"statistics": {
  "timestamp": "2024-11-08T19:51:12+00:00",
  "receive_raw": {
    "packets": 1616467751,
    "errors": 0,
    "discards": 0
  },
  "transmit_raw": {
    "packets": 206717534,
    "errors": 0,
    "discards": 0
  }
},
"remote_port": {
  "mtu": 9000,
  "name": "e3a",
  "functional_roles": [
    "cluster",
    "ha"
  ],
  "device": {
    "discovered_name": "stiA400-311",
    "node": {
      "name": "stiA400-311",
      "uuid": "54c0f036-8a3a-11ea-893d-00a098fd726d",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/54c0f036-8a3a-11ea-893d-00a098fd726d"
        }
      }
    }
  }
},
"mac_address": "00:be:75:ae:2a:d4",
"vlan_id": [
  1,
  17,
  18
],

```

```

"roles": [
  {
    "type": "cluster",
    "zone": 1
  }
],
"_links": {
  "self": {
    "href": "/api/network/ethernet/switch/ports/RTP-CS01-510R11%28FOC22092K12%29/Ethernet1%2F1/436207616"
  }
},
{
  "switch": {
    "name": "RTP-CS01-510R11 (FOC22092K12) ",
    "_links": {
      "self": {
        "href": "/api/network/ethernet/switches/RTP-CS01-510R11 (FOC22092K12) "
      }
    }
  },
  "identity": {
    "name": "Ethernet1/11",
    "index": 436212736,
    "number": 11,
    "type": "ethernetcsmacd"
  },
  "mtu": 9216,
  "duplex_type": "unknown",
  "speed": 100000,
  "configured": "up",
  "state": "down",
  "isl": false,
  "vpc_peer_link": false,
  "statistics": {
    "timestamp": "2024-11-08T19:51:12+00:00",
    "receive_raw": {
      "packets": 0,
      "errors": 0,
      "discards": 0
    },
    "transmit_raw": {
      "packets": 0,
      "errors": 0,

```

```

        "discards": 0
    },
    "mac_address": "00be75ae2afc",
    "vlan_id": [
        1,
        17,
        18
    ],
    "roles": [
        {
            "type": "cluster",
            "zone": 1
        }
    ],
    "_links": {
        "self": {
            "href": "/api/network/ethernet/switch/ports/RTP-CS01-510R11%28FOC22092K12%29/Ethernet1%2F11/436212736"
        }
    }
},
{
    "switch": {
        "name": "RTP-SS01-510R10 (FOC22170DFR) ",
        "_links": {
            "self": {
                "href": "/api/network/ethernet/switches/RTP-SS01-510R10 (FOC22170DFR) "
            }
        }
    },
    "identity": {
        "name": "Ethernet1/10",
        "index": 436212224,
        "number": 10,
        "type": "ethernetcsmacd"
    },
    "mtu": 9216,
    "duplex_type": "full_duplex",
    "speed": 100000,
    "configured": "up",
    "state": "up",
    "isl": false,
    "vpc_peer_link": false,
    "statistics": {

```

```

"timestamp": "2024-11-08T19:51:12+00:00",
"receive_raw": {
  "packets": 332013844,
  "errors": 0,
  "discards": 0
},
"transmit_raw": {
  "packets": 2429595607,
  "errors": 0,
  "discards": 0
}
},
"remote_port": {
  "mtu": 9000,
  "name": "e0a",
  "functional_roles": [
    "storage_shelf"
  ],
  "device": {
    "discovered_name": "1.1",
    "shelf": {
      "name": "1.1",
      "module": "B",
      "uid": "12439000444923584512",
      "_links": {
        "self": {
          "href": "/api/storage/shelves/12439000444923584512"
        }
      }
    }
  }
},
"mac_address": "00fcbaead548",
"vlan_id": [
  1,
  30
],
"roles": [
  {
    "type": "storage",
    "zone": 1
  }
],
"_links": {
  "self": {
    "href": "/api/network/ethernet/switch/ports/RTP-SS01-

```

```

510R10%28FOC22170DFR%29/Ethernet1%2F10/436212224"
    }
  }
},
"num_records": 138,
"_links": {
  "self": {
    "href": "/api/network/ethernet/switch/ports?fields=*"
  }
}
}
}

```

Retrieving a ports on an ethernet switch

```

# The API:
GET /network/ethernet/switch/ports/{switch.name}/{identity.name}/{identity.index}

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ethernet/switch/ports/RTP-SS02-510R10%28FOC22131U6T%29/Ethernet1%2F9/436211712" -H "accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response:
{
  "switch": {
    "name": "RTP-SS02-510R10 (FOC22131U6T) ",
    "_links": {
      "self": {
        "href": "/api/network/ethernet/switches/RTP-SS02-510R10 (FOC22131U6T) "
      }
    }
  },
  "identity": {
    "name": "Ethernet1/9",
    "index": 436211712,
    "number": 9,
    "type": "ethernetcsmaacd"
  },
  "mtu": 9216,
  "duplex_type": "full_duplex",
  "speed": 100000,

```

```

"configured": "up",
"state": "up",
"isl": false,
"vpc_peer_link": false,
"statistics": {
  "timestamp": "2024-11-08T19:51:12+00:00",
  "receive_raw": {
    "packets": 4012559315,
    "errors": 0,
    "discards": 0
  },
  "transmit_raw": {
    "packets": 337898026,
    "errors": 0,
    "discards": 0
  }
},
"remote_port": {
  "mtu": 9000,
  "name": "e0a",
  "functional_roles": [
    "storage_shelf"
  ],
  "device": {
    # cSpell:disable-next-line
    "discovered_name": "SHFFG1234567890:A",
    "shelf": {
      "name": "1.1",
      "module": "A",
      "uid": "12439000444923584512",
      "_links": {
        "self": {
          "href": "/api/storage/shelves/12439000444923584512"
        }
      }
    }
  }
},
"mac_address": "00fcbaea7228",
"vlan_id": [
  1,
  30
],
"roles": [
  {

```

```

    "type": "storage",
    "zone": 1
  }
],
"_links": {
  "self": {
    "href": "/api/network/ethernet/switch/ports/RTP-SS02-510R10%28FOC22131U6T%29/Ethernet1%2F9/436211712"
  }
}
}
}

```

Retrieve Ethernet switch ports

GET /network/ethernet/switch/ports

Introduced In: 9.8

Retrieves the ethernet switch ports.

Related ONTAP commands

- `system switch ethernet interface show`

Learn more

- [DOC /network/ethernet/switch/ports](#)

Parameters

Name	Type	In	Required	Description
duplex_type	string	query	False	Filter by duplex_type
statistics.timestamp	string	query	False	Filter by statistics.timestamp • Introduced in: 9.17
statistics.transmit_raw_packets	integer	query	False	Filter by statistics.transmit_raw_packets

Name	Type	In	Required	Description
statistics.transmit_raw.discards	integer	query	False	Filter by statistics.transmit_raw.discards
statistics.transmit_raw.errors	integer	query	False	Filter by statistics.transmit_raw.errors
statistics.receive_raw.packets	integer	query	False	Filter by statistics.receive_raw.packets
statistics.receive_raw.discards	integer	query	False	Filter by statistics.receive_raw.discards
statistics.receive_raw.errors	integer	query	False	Filter by statistics.receive_raw.errors
identity.index	integer	query	False	Filter by identity.index
identity.number	integer	query	False	Filter by identity.number
identity.name	string	query	False	Filter by identity.name
identity.breakout.physical_port	string	query	False	Filter by identity.breakout.physical_port • Introduced in: 9.17
identity.breakout.number	integer	query	False	Filter by identity.breakout.number • Introduced in: 9.17
mtu	integer	query	False	Filter by mtu
type	string	query	False	Filter by type

Name	Type	In	Required	Description
vlan_id	integer	query	False	Filter by vlan_id
switch.name	string	query	False	Filter by switch.name
mac_address	string	query	False	Filter by mac_address
roles.zone	integer	query	False	Filter by roles.zone • Introduced in: 9.17 • Min value: 1
roles.dr_group	string	query	False	Filter by roles.dr_group • Introduced in: 9.17
roles.type	string	query	False	Filter by roles.type • Introduced in: 9.17
remote_port.mtu	integer	query	False	Filter by remote_port.mtu
remote_port.name	string	query	False	Filter by remote_port.name
remote_port.functional_roles	string	query	False	Filter by remote_port.functional_roles • Introduced in: 9.17
remote_port.device.shelf.uid	string	query	False	Filter by remote_port.device.shelf.uid

Name	Type	In	Required	Description
remote_port.device.shelf.module	string	query	False	Filter by remote_port.device.shelf.module • Introduced in: 9.12
remote_port.device.shelf.name	string	query	False	Filter by remote_port.device.shelf.name • Introduced in: 9.12
remote_port.device.node.uuid	string	query	False	Filter by remote_port.device.node.uuid
remote_port.device.node.name	string	query	False	Filter by remote_port.device.node.name
remote_port.device.discovered_name	string	query	False	Filter by remote_port.device.discovered_name • Introduced in: 9.17
isl	boolean	query	False	Filter by isl
state	string	query	False	Filter by state
vpc_peer_link	boolean	query	False	Filter by vpc_peer_link • Introduced in: 9.15
configured	string	query	False	Filter by configured
speed	integer	query	False	Filter by speed
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. • 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. • Min value: 0 • Default value: 15 • Max value: 120
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	collection_links	
num_records	integer	Number of Records
records	array[switch_port]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "configured": "string",
      "duplex_type": "string",
      "identity": {
        "breakout": {
          "number": 1,
          "physical_port": "Ethernet1/9"
        },
        "index": 0,
        "name": "string",
        "number": 0
      },
      "mac_address": "string",
      "mtu": 0,
      "remote_port": {
        "device": {
          "discovered_name": "stiA400-311",
          "node": {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "node1",
            "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
          },
          "shelf": {
            "_links": {
```

```

        "self": {
            "href": "/api/resourcelink"
        },
        "module": "string",
        "name": "1.1",
        "uid": "12439000444923584512"
    },
    "functional_roles": [
        "string"
    ],
    "mtu": 0,
    "name": "string"
},
"roles": [
    {
        "dr_group": "string",
        "type": "string"
    }
],
"speed": 0,
"state": "string",
"statistics": {
    "receive_raw": {
        "discards": 100,
        "errors": 200,
        "packets": 500
    },
    "timestamp": "2024-11-18 10:52:17 -0500",
    "transmit_raw": {
        "discards": 100,
        "errors": 200,
        "packets": 500
    }
},
"switch": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "RTP-SS01-510R03 (FOC223443KQ) "
},
"type": "string",
"vlan_id": [

```

```
        "integer"  
      ]  
    }  
  ]  
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_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	

collection_links

Name	Type	Description
next	href	
self	href	

self_link

Name	Type	Description
self	href	

breakout

Name	Type	Description
number	integer	Breakout port sub-interface number.
physical_port	string	Breakout physical port name.

identity

Name	Type	Description
breakout	breakout	
index	integer	Interface Index.
name	string	Interface Name.
number	integer	Interface Number.

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

shelf

Shelf connected to this port.

Name	Type	Description
_links	_links	
module	string	Shelf module connected to this port.
name	string	
uid	string	

device

Device connected to port.

Name	Type	Description
discovered_name	string	Raw name of the discovered device.
node	node	
shelf	shelf	Shelf connected to this port.

remote_port

Remote port.

Name	Type	Description
device	device	Device connected to port.
functional_roles	array[string]	
mtu	integer	MTU in octets.
name	string	Remote port name.

roles

Allowed use for this port.

Name	Type	Description
dr_group	string	DR group.
type	string	Allowed use type.
zone	integer	Zone ID to differentiate between roles with the same type.

receive_raw

Packet receive counters for the Ethernet port.

Name	Type	Description
discards	integer	Total number of discarded packets.
errors	integer	Number of packet errors.
packets	integer	Total packet count.

transmit_raw

Packet transmit counters for the Ethernet port.

Name	Type	Description
discards	integer	Total number of discarded packets.
errors	integer	Number of packet errors.
packets	integer	Total packet count.

statistics

These are raw counters for the device associated with the Ethernet port.

Name	Type	Description
receive_raw	receive_raw	Packet receive counters for the Ethernet port.
timestamp	string	The time the statistics were gathered.

Name	Type	Description
transmit_raw	transmit_raw	Packet transmit counters for the Ethernet port.

switch

The name of the specified cluster or storage switch.

Name	Type	Description
_links	self_link	
name	string	

switch_port

Ethernet Switch Port REST API

Name	Type	Description
_links	self_link	
configured	string	Administrative Status.
duplex_type	string	Duplex Settings.
identity	identity	
isl	boolean	Is configured as an ISL link.
mac_address	string	MAC Address.
mtu	integer	MTU.
remote_port	remote_port	Remote port.
roles	array[roles]	
speed	integer	Interface Speed(Mbps).
state	string	Operational Status.
statistics	statistics	These are raw counters for the device associated with the Ethernet port.
switch	switch	The name of the specified cluster or storage switch.

Name	Type	Description
type	string	Interface Type.
vlan_id	array[integer]	
vpc_peer_link	boolean	Is configured as a Virtual Port Channel (vPC) peer-link.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

Retrieve an Ethernet switch port

GET /network/ethernet/switch/ports/{switch}/{identity.name}/{identity.index}

Introduced In: 9.8

Retrieves an ethernet switch port.

Related ONTAP commands

- `system switch ethernet interface show`

Parameters

Name	Type	In	Required	Description
switch	string	path	True	Switch Name

Name	Type	In	Required	Description
identity.name	string	path	True	Interface Name
identity.index	integer	path	True	Interface Index
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	self_link	
configured	string	Administrative Status.
duplex_type	string	Duplex Settings.
identity	identity	
isl	boolean	Is configured as an ISL link.
mac_address	string	MAC Address.
mtu	integer	MTU.
remote_port	remote_port	Remote port.
roles	array[roles]	
speed	integer	Interface Speed(Mbps).
state	string	Operational Status.
statistics	statistics	These are raw counters for the device associated with the Ethernet port.
switch	switch	The name of the specified cluster or storage switch.
type	string	Interface Type.
vlan_id	array[integer]	

Name	Type	Description
vpc_peer_link	boolean	Is configured as a Virtual Port Channel (vPC) peer-link.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "configured": "string",
  "duplex_type": "string",
  "identity": {
    "breakout": {
      "number": 1,
      "physical_port": "Ethernet1/9"
    },
    "index": 0,
    "name": "string",
    "number": 0
  },
  "mac_address": "string",
  "mtu": 0,
  "remote_port": {
    "device": {
      "discovered_name": "stiA400-311",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "shelf": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "module": "string",
        "name": "1.1",
        "uid": "12439000444923584512"
      }
    },
    "functional_roles": [
      "string"
    ]
  }
}
```

```

    ],
    "mtu": 0,
    "name": "string"
  },
  "roles": [
    {
      "dr_group": "string",
      "type": "string"
    }
  ],
  "speed": 0,
  "state": "string",
  "statistics": {
    "receive_raw": {
      "discards": 100,
      "errors": 200,
      "packets": 500
    },
    "timestamp": "2024-11-18 10:52:17 -0500",
    "transmit_raw": {
      "discards": 100,
      "errors": 200,
      "packets": 500
    }
  },
  "switch": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "RTP-SS01-510R03(FOC223443KQ) "
  },
  "type": "string",
  "vlan_id": [
    "integer"
  ]
}

```

Error

Status: Default, Error

Name	Type	Description
error	returned_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	

self_link

Name	Type	Description
self	href	

breakout

Name	Type	Description
number	integer	Breakout port sub-interface number.
physical_port	string	Breakout physical port name.

identity

Name	Type	Description
breakout	breakout	
index	integer	Interface Index.
name	string	Interface Name.
number	integer	Interface Number.

_links

Name	Type	Description
self	href	

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

shelf

Shelf connected to this port.

Name	Type	Description
_links	_links	
module	string	Shelf module connected to this port.
name	string	
uid	string	

device

Device connected to port.

Name	Type	Description
discovered_name	string	Raw name of the discovered device.
node	node	
shelf	shelf	Shelf connected to this port.

remote_port

Remote port.

Name	Type	Description
device	device	Device connected to port.
functional_roles	array[string]	
mtu	integer	MTU in octets.
name	string	Remote port name.

roles

Allowed use for this port.

Name	Type	Description
dr_group	string	DR group.
type	string	Allowed use type.

Name	Type	Description
zone	integer	Zone ID to differentiate between roles with the same type.

receive_raw

Packet receive counters for the Ethernet port.

Name	Type	Description
discards	integer	Total number of discarded packets.
errors	integer	Number of packet errors.
packets	integer	Total packet count.

transmit_raw

Packet transmit counters for the Ethernet port.

Name	Type	Description
discards	integer	Total number of discarded packets.
errors	integer	Number of packet errors.
packets	integer	Total packet count.

statistics

These are raw counters for the device associated with the Ethernet port.

Name	Type	Description
receive_raw	receive_raw	Packet receive counters for the Ethernet port.
timestamp	string	The time the statistics were gathered.
transmit_raw	transmit_raw	Packet transmit counters for the Ethernet port.

switch

The name of the specified cluster or storage switch.

Name	Type	Description
_links	self_link	
name	string	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

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