

```
Content-Type: application/json;charset=UTF-8
Content-Length: 250
Connection: keep-alive
```

**Response status code 500:** Internal server error.

```
HTTP/1.1 500 Internal Server Error
Date: Mon,08 Jul 2024 10:00:00 GMT
Server: example-server
Content-Type: application/json;charset=UTF-8
Content-Length: 250
Connection: keep-alive
```

## 1.4.2.22 Basic Device Information Management

### 1.4.2.22.1 Query a Tenant Device by an MSP

#### Typical Scenarios

An MSP needs to query a tenant device.

#### Functions

Query a tenant device by an MSP. Both NETCONF- and SNMP-managed devices can be queried.

#### Constraints

This API can be used by northbound MSP administrators attached to the open API operator role only after a user session is established.

#### HTTP Method

POST

#### URI

/controller/campus/v4/devices/msp/query

#### Request Parameters

**Table 1-350** body parameters

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
queryDeviceDto	Yes	REFERENCE	For details, see <a href="#">Table 1-351</a> .		Input parameters for querying a device.	-

Table 1-351 QueryDevice4MSPDto parameters

Param eter	Mand atory	Type	Value Range	Defaul t Value	Description	Example
keyWo rd	No	string	0 to 128 charac ters.	-	Keyword. The following values can be used as search keywords: device name, ESN, MAC address, status, description, site, device model, public IP address, management IP address, asset ID, software version number, and patch version number.	"127.0.0.1"
name	No	string	0 to 128 charac ters.	-	Device name for fuzzy search.	"AA02350"
esn	No	string	0 to 128 charac ters. The value must meet the followi ng regular expres sion: ^[0-9a -zA-Z]* \$.	-	ESN for fuzzy search.	"DLR00000"

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
model	No	string	0 to 32 characters. The value must meet the following regular expression: <code>^[0-9a-zA-Z-]*\$</code> .	-	Device model for fuzzy search.	"P6050"
softwareVersion	No	string	0 to 32 characters. The value must meet the following regular expression: <code>^[0-9a-zA-Z-]*\$</code> .	-	Software version for fuzzy search.	"R020C00"
patchVersion	No	string	0 to 32 characters. The value must meet the following regular expression: <code>^[0-9a-zA-Z-]*\$</code> .	-	Patch version for fuzzy search.	"patch001"

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
manages	No	array<string>	0-4 items. Each item has <ul style="list-style-type: none"><li>• NORMAL</li><li>• ZTP_INACTIVE</li><li>• DEVICE_ISOLATE</li><li>• LICENSE_EXPIRED</li></ul>	-	Administrative status, used for filtering. The options include Normal (normal), ZTP_INACTIVE (to be deployed), DEVICE_ISOLATE (configuration locked), and License_EXPIRED (certificate expired).	["NORMAL","DEVICE_ISOLATE"]
sortField	No	string	0 to 128 characters.	-	Sorting field. The value can be name, ESN, status, role, or model.	"name"

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
status	No	array<string>	0-5 items. Each item has 0 to 32 characters. Each item has <ul style="list-style-type: none"><li>NORMAL</li><li>ALARM</li><li>OFFLINE</li><li>UNREGISTERED</li><li>PARTIALLYCONNECTED</li></ul>	-	Device status. The value can be NORMAL, ALARM, OFFLINE, UNREGISTERED, or PARTIALLY CONNECTED. This field corresponds to "Status" on the controller web UI.	["NORMAL","ALARM"]

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
roles	No	array<string>	0-12 items. Each item has 0 to 32 characters. Each item has <ul style="list-style-type: none"><li>Gateway</li><li>CORE</li><li>vRR</li><li>Fire wall</li><li>WAC</li><li>AGG</li><li>ACC</li><li>AP</li><li>Inte rwo rkin g Gat ewa y</li><li>RR</li><li>Reg ion Agg reg atio n</li><li>TG</li></ul>	-	Device role. This field corresponds to "Role" on the controller UI.	["Gateway","CORE"]

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
types	No	array<string>	0-10 items. Each item has 0 to 32 characters. Each item has <ul style="list-style-type: none"><li>• WAC</li><li>• AP</li><li>• AR</li><li>• FW</li><li>• LSW</li><li>• OLT</li><li>• ONU</li><li>• NE</li><li>• OTHER</li></ul>	-	Device type.	["WAC","AP"]
pageIndex	No	int32	[0-2147483647]	1	Page number.	"4"
pageSize	No	int32	[0-300]	100	Page size.	"20"
createTimeBegin	No	int64	[0-9999999999]	-	Creation start time.	1616554000
createTimeEnd	No	int64	[0-9999999999]	-	Creation end time.	1616554000
registerTimeBegin	No	int64	[0-9999999999]	-	Registration start time.	1616554000
registerTimeEnd	No	int64	[0-9999999999]	-	Registration end time.	1616554000

Parameter	Mandatory	Type	Value Range	Default Value	Description	Example
tenantIdList	No	array<string>	0-1000 items.	-	Tenant ID list. By default, this parameter is left empty. If tenant IDs are specified, devices under the corresponding tenants are queried.	["000000000-0000-0000-0000-000000000001"]

Sample Request

```
HTTP
POST /controller/campus/v4/devices/msp/query HTTP/1.1
Host: 192.168.1.125:18002
Content-Type: application/json
Accept: application/json
Accept-Language: en-US
X-ACCESS-TOKEN: x-yyyyyy
{
  "keyWord" : "127.0.0.1",
  "name" : "AA02350",
  "esn" : "DLR00000",
  "model" : "P6050",
  "softwareVersion" : "R020C00",
  "patchVersion" : "patch001",
  "manageStatus" : ["NORMAL","DEVICE_ISOLATE"],
  "sortField" : "name",
  "status" : ["NORMAL","ALARM"],
  "roles" : ["Gateway","CORE"],
  "types" : ["WAC","AP"],
  "pageIndex" : "4",
  "pageSize" : "20",
  "createTimeBegin" : 1616554000,
  "createTimeEnd" : 1616554000,
  "registerTimeBegin" : 1616554000,
  "registerTimeEnd" : 1616554000,
  "tenantIdList" : ["000000000-0000-0000-0000-000000000001"]
}
```

Response Parameters

**Response status code 200:** OK.

QueryDeviceResult parameters, For details, see [Table 1-354](#).

**Response status code 400:** Bad request.

For details, see the response message body.

**Response status code 500:** Internal server error.

For details, see the response message body.



## Sample Response

### Response status code 200: OK.

```
HTTP/1.1 200 OK
Date: Mon,08 Jul 2024 10:00:00 GMT
Server: example-server
Content-Type: application/json;charset=UTF-8
Content-Length: 250
Connection: keep-alive
{
  "errcode" : "0",
  "errmsg" : "success",
  "pageIndex" : 1,
  "pageSize" : 20,
  "totalRecords" : 2,
  "data" : [
    {
      "id" : "b473118d-17ff-4f4f-9fa9-a4c0e1e87e42",
      "name" : "AR1",
      "esn" : "2102351BTJ0000000666",
      "deviceModel" : "AR161EW",
      "deviceType" : "AR",
      "status" : "0",
      "siteId" : "ea25fdbf-8dee-4823-bac2-5bfe8e3359ca",
      "mac" : "",
      "ip" : "192.168.0.10",
      "managelp" : "192.168.0.10",
      "neType" : "AR161EW",
      "version" : "V300R003C00",
      "vendor" : "HUAWEI",
      "description" : "HUAWEI",
      "resourceId" : "HUAWEI",
      "tenantId" : "ea25fdbf-8dee-4823-bac2-5bfe8e3359ca",
      "tenantName" : "XXX@XXX.com",
      "siteName" : "test1",
      "createTime" : "2017-12-13 01:37:28",
      "registerTime" : "2017-12-13 01:37:28",
      "modifyTime" : "2017-12-13 01:37:28",
      "startupTime" : "2017-12-13 01:37:28",
      "tags" : [
        ""
      ],
      "systemIp" : "192.168.1.1",
      "patchVersion" : "V200R019SPH",
      "ztpConfirm" : false,
      "manageStatus" : "ABNORMAL",
      "manageStatusDownReason" : ["NEED_ZTP_CONFIRM","DEVICE_HAS_BEEN_ISOLATED"],
      "role" : ["Gateway"],
      "performance" : "",
      "uptime" : "0 days, 1 hour, 10 minutes"
    }
  ]
}
```

### Response status code 400: Bad request.

```
HTTP/1.1 400 Bad Request
Date: Mon,08 Jul 2024 10:00:00 GMT
Server: example-server
Content-Type: application/json;charset=UTF-8
Content-Length: 250
Connection: keep-alive
```

### Response status code 500: Internal server error.

```
HTTP/1.1 500 Internal Server Error
Date: Mon,08 Jul 2024 10:00:00 GMT
Server: example-server
```