

How to fix the error "BAPI not found with technicalName network-device and restMethod GET majorVersion 1"?



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How to fix the error "BAPI not found with technicalName network-device and restMethod GET majorVersion 1"?

QUESTION:

After I upgraded my Cisco DNA Center to version 1.3.x, the API Tool stopped working. I see the following error: "BAPI not found with technicalName network-device and restMethod GET majorVersion 1"

ANSWER:

To fix this issue, you will need to DISABLE the Rest API Bundle. And then,

Simply RE-ENABLE the Rest API Bundle. After that, retry your API test from the Cisco DNA Center UI.

CSCvr70208 DNACP / API Catalog - Non-BAPI APIs do not work after upgrade to 1.3.1.2

<https://cdetsng.cisco.com/summary/#/defect/CSCvr70208>

Some of the APIs in the GUI (Developer Toolkit > APIs) issue an error message with the following details:

"error" : "BAPI not found with technicalName <url path> and restMethod GET"

This occurs when Cisco DNA Center is upgraded and the system version upgrades from one version to another, but the Cisco DNA Center REST API bundle is not auto-upgraded (since there is no change in the bundle version).

Workaround:

Disable and then re-enable the Cisco DNA Center REST API bundle.

For example:

Try It

module+vendorequipmenttype	moduleVendorEquipmentType	<input type="text"/>
module+partnumber	modulePartNumber	<input type="text"/>
module+operationstatecode	moduleOperationStateCode	<input type="text"/>
id	Accepts comma separated id's and return list of network-devices for the given id's. If invalid or not-found id's are provided, null entry will be returned in the list.	<input type="text"/>

Response **Status Code: 404**

```
1 - {  
2   "error": "BAPI not found with technicalName network-device and restMethod GET majorVersion 1"  
3 }
```

***** After I upgraded my Cisco DNAC to version 1.3.x, the APIs started failing from the GUI with the "BAPI not found error".**

PS

Note: The Cisco DNAC REST API is currently ACTIVE but I am still experiencing the error.

🔍 Find

Status Description

Basic ITSM (ServiceNow) CMDB synchronization

Cisco Systems, Inc.
v1.1.0 | DNAC 1.2.5 +
Updated Jul 4, 2019

ENABLED

You can schedule a synchronization or trigger an update between the DNA Center device inventory and your ITSM(ServiceNow) configuration management database(CMDB). These activities integrate DNA Center processes into the IT System Management processes of incident, change and problem management. Note: If your network devices...

Config

DNA Center REST API

Cisco Systems, Inc.
v1.1.0 | DNAC 1.2.5 +
Updated Jul 4, 2019

ACTIVE

This bundle contains the REST API supported by Cisco DNA Center. These REST APIs provide a rich set of capabilities, including the ability to discover network devices, query network health and provision network devices.

Network Events for REST API Endpoint

Cisco Systems, Inc.
v1.1.0 | DNAC 1.2.5 +
Updated Jul 4, 2019

ENABLED

You can use this bundle to publish DNA Center events to any REST API endpoint, as well as to receive updates about the event and its associated artifacts(incident , problem or request for change). The bundle then populates the Runtime Dashboard with this data.

Config

Network Issue Monitor and Enrichment for ITSM (ServiceNow)

Cisco Systems, Inc.
v1.1.0 | DNAC 1.2.5 +
Updated Jul 4, 2019

ENABLED

You can use this bundle to monitor your network for assurance and maintenance issues, and then publish the event details about these issues to an ITSM(ServiceNow) system. This bundle also contains APIs that extract rich network context data. Please note that, if your network devices have not yet been synchronized between...

Config

SWIM Events for ITSM (ServiceNow)

*** In order to fix the "BAPI" error, you need to DISABLE and then RE-ENABLE the API Tool.

DNA Center REST API ACTIVE

This bundle contains the REST API supported by Cisco DNA Center. These REST APIs provide a rich set of capabilities, including the ability to discover network devices, query network health and provision network devices.

Information Contents Release Notes

This bundle contains the REST APIs supported by Cisco DNA Center. The DNA Center GUI displays documentation about each REST API call, including the request method and URL; query parameters, request header parameters, responses, and schema; and ways to preview or test the request.

The REST APIs are organized into the following groups:

- Authentication—Authentication APIs provide an authorized token for accessing any REST APIs.
- Know Your Network—These APIs can be used to discover details about clients, sites, topology and devices.
- Operational Tools—Operational Tools APIs provide programmatic access to DNA Center tasks such as a configure and manage CLI templates, discover network devices, configure network settings and path trace through the network.
- Command Runner—Command Runner allows you to send diagnostic Command Line Interface (CLI) commands to selected devices. It permits you to run diagnostic CLI commands and view the command output.
- Network Discovery—Network Discovery scans the devices in your network and sends the list to device inventory. The Discovery feature can also work with the Device Controllability feature to configure required network settings on devices, if these settings are not already present on the device. DNA Center Platform helps getting keywords from Command Runner, and retrieves SNMP (Simple Network Mail Protocol) properties, global credentials and network devices from discovery on given filters
- Path Trace—Path Trace simplifies resolution of network performance issues by tracing application paths through the network and providing statistics for each hop along the path.
- Template Programmer—Template Programmer is a centralized CLI management tool to help the design and provide work flow in the DNA Center Platform. With the help of DNA Center Platform you can create, edit, and delete templates. You can also add interactive comments and validate errors in the template.
- Site Management—Site Management APIs help provision enterprise networks with zero touch deployment and manage the activation and distribution of software images in the network.



The screenshot shows the Cisco DNA Center web interface. At the top, there is a navigation bar with tabs for DESIGN, POLICY, PROVISION, ASSURANCE, and PLATFORM. Below this is a header area with the word "form" and the version "Version 1.1.0 - Released 5/16/2019". A secondary navigation bar includes "Manage", "Developer Toolkit", and "Runtime Dashboard". The main content area displays "DNA Center REST API" with a green "ACTIVE" status and a "Disable" button. A warning dialog box is centered on the screen, featuring an orange warning icon and the text: "Warning: Are you sure you want to disable DNA Center REST API? You can enable it anytime from Bundles page." The dialog has "Cancel" and "Disable" buttons. The background content is dimmed, showing a description of the REST API bundle and a list of API groups: Authentication, Know Your Network, Operational Tools, Command Runner, Network Discovery, and Path Trace.

The screenshot shows the Cisco DNA Center Platform interface. At the top, there is a navigation bar with tabs for DESIGN, POLICY, PROVISION, ASSURANCE, and PLATFORM. Below this, the 'Platform' section is active, showing 'Version 1.1.0 - Released 5/16/2019'. A 'Manage' dropdown menu is visible, along with 'Developer Toolkit' and 'Runtime Dashboard' options. The main content area displays 'DNA Center REST API' with a green 'ACTIVE' status indicator and a 'Disable' button. A descriptive paragraph states: 'This bundle contains the REST API supported by Cisco DNA Center. These REST APIs provide a rich set of capabilities, including the ability to discover network devices, query network health and provision network devices.' Below this, there are tabs for 'Information', 'Contents', and 'Release Notes'. A modal dialog box is overlaid in the center, featuring a green checkmark icon, the text 'Success', 'Bundle Disabled', and an 'Okay' button. The background content is dimmed.

The screenshot shows the Cisco DNA Center interface. At the top, there are navigation tabs: DESIGN, POLICY, PROVISION, ASSURANCE, and PLATFORM. Below these, there's a 'form' header with 'Version 1.1.0 - Released 5/16/2019'. A secondary navigation bar includes 'Manage', 'Developer Toolkit', and 'Runtime Dashboard'. The main content area is titled 'DNA Center REST API' and is currently 'DISABLED'. A yellow warning message states: '*** In order to fix the "BAPI" error, you need to DISABLE and then RE-ENABLE the API Tool.' To the right of this message is an 'Enable' button, which is circled in red. An 'Information' dialog box is overlaid in the center, with the title 'Information' and the subtitle 'Confirm Enabling the bundle'. It contains two buttons: 'Cancel' and 'Enable'. A red arrow points from the 'Enable' button in the dialog box to the 'Enable' button in the background interface. Below the dialog box, there is a list of REST API groups:

- Authentication—Authentication APIs provide an authorized token
- Know Your Network—These APIs can be used to discover details
- Operational Tools—Operational Tools APIs provide programmatic access to DNA Center tasks such as configure and manage CLI templates, discover network devices, configure network settings and path trace through the network.
- Command Runner—Command Runner allows you to send diagnostic Command Line Interface (CLI) commands to selected devices. It permits you to run diagnostic CLI commands and view the command output.
- Network Discovery—Network Discovery scans the devices in your network and sends the list to device inventory. The Discovery feature can also work with the Device Controllability feature to configure required network settings on devices, if these settings are not already present on the device. DNA Center Platform helps getting keywords from Command Runner, and retrieves SNMP (Simple Network Mail Protocol) properties, global credentials and network devices from discovery on given filters
- Path Trace—Path Trace simplifies resolution of network performance issues by tracing application paths through the network and providing statistics for each hop along the path.

The screenshot shows the Cisco DNA Center Platform interface. At the top, there is a navigation bar with tabs for DESIGN, POLICY, PROVISION, ASSURANCE, and PLATFORM. Below this, the word 'Platform' is displayed along with the version 'Version 1.1.0 - Released 5/16/2019'. A secondary navigation bar includes 'Manage', 'Developer Toolkit', and 'Runtime Dashboard'. The main content area features a section for 'DNA Center REST API' which is currently 'DISABLED'. A blue 'Enable' button is visible on the right. Below the title, a paragraph explains that the bundle contains REST APIs for discovering network devices, querying health, and provisioning. There are three tabs: 'Information', 'Contents', and 'Release Notes'. The 'Information' tab is active, showing a list of REST API groups: Authentication, Know Your Network, Operational Tools, Command Runner, Network Discovery, and Path Trace. A white dialog box with a green checkmark and the text 'Success Bundle Enabled' is overlaid on the page, with an 'Okay' button at the bottom.

DNA Center REST API ACTIVE

Disable

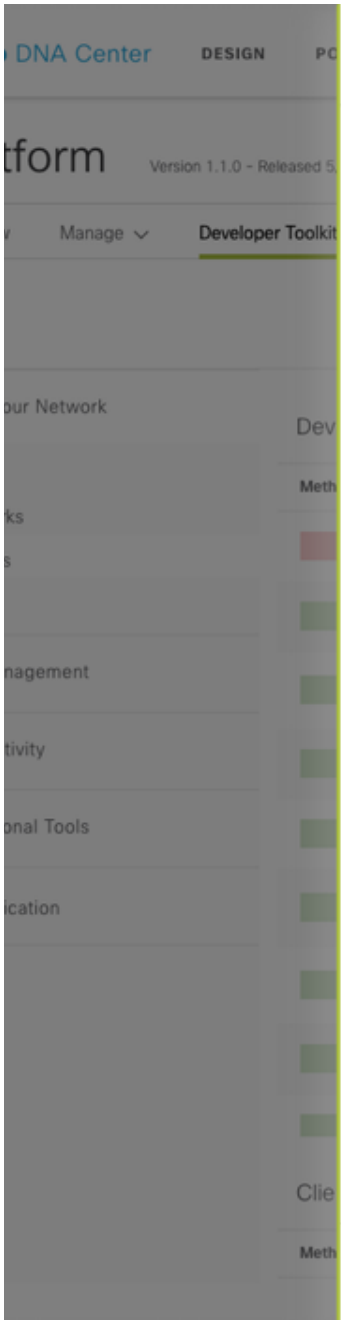
This bundle contains the REST API supported by Cisco DNA Center. These REST APIs provide a rich set of capabilities, including the ability to discover network devices, query network health and provision network devices.

Information Contents Release Notes

This bundle contains the REST APIs supported by Cisco DNA Center. The DNA Center GUI displays documentation about each REST API call, including the request method and URL; query parameters, request header parameters, responses, and schema; and ways to preview or test the request.

The REST APIs are organized into the following groups:

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- Command Runner—Command Runner allows you to send diagnostic Command Line Interface (CLI) commands to selected devices. It permits you to run diagnostic CLI commands and view the command output.
- Network Discovery—Network Discovery scans the devices in your network and sends the list to device inventory. The Discovery feature can also



Get Device list

DESCRIPTION

Returns list of network devices based on filter criteria such as management IP address, mac address, hostname, location name and a wide variety of additional criteria. You can also use the asterisk (*) any value to conduct a wildcard search. For example, to find all hostnames beginning with myhost in the IP address range 192.25.18.n, issue the following request: GET `fqdnoripofdnacenterplatform/dna/intent/api/v1/network-device?hostname=myhost* & managementIpAddress=192.25.18.*` For a complete list of parameter names that you can use for filtering a request, see the DNA Center API Reference documentation. Note: If id parameter is provided, it will return the list of network-devices for the given ids and ignores the other request parameters.

Method	URL
GET	<code>https://172.18.217.184/dna/intent/api/v1/network-device</code>

PARAMETERS

Request Query Parameters

Name	Description	DataType	Default Value	Required
hostname	hostname	array		false
managementIpAddress	managementIpAddress	array		false
macAddress	macAddress	array		false
locationName	locationName	array		false
serialNumber	serialNumber	array		false
location	location	array		false
family	family	array		false
type	type	array		false
series	series	array		false
collectionStatus	collectionStatus	array		false
collectionInterval	collectionInterval	array		false
notSyncedForMinutes	notSyncedForMinutes	array		false
errorCode	errorCode	array		false
errorDescription	errorDescription	array		false

[Code Preview](#)

The screenshot shows a web interface for configuring an API test. The main page is titled "Get Device list" and has a "Developer Toolkit" menu. A modal window titled "Try It" is open, showing the following configuration:

Method: GET
Public URL: https://172.18.217.184/dna/intent/api/v1/network-device

Name	Description	Value
Query Params		
hostname	hostname	<input type="text"/>
managementIpAddress	managementIpAddress	<input type="text"/>
macAddress	macAddress	<input type="text"/>
locationName	locationName	<input type="text"/>
serialNumber	serialNumber	<input type="text"/>
location	location	<input type="text"/>
family	family	<input type="text"/>
type	type	<input type="text"/>

Below the table, there is a red text prompt: ***** Retry the API Test**. At the bottom of the modal, there are two buttons: "Cancel" and "Run". The "Run" button is highlighted with a red circle.

DNA Center DESIGN PC Get Device list

DESCRIPTION

Try It

module+vendorequipmenttype	moduleVendorEquipmentType
module+partnumber	modulePartNumber
module+operationstatecode	moduleOperationStateCode
id	Accepts comma separated id's and return list of network-devices for the given id's. If invalid or not-found id's are provided, null entry will be returned in the list.

Response

```
1 {
2   "response": [
3     {
4       "memorySize": "NA",
5       "family": "Unified AP",
6       "lastUpdateTime": 1564762728250,
7       "softwareType": null,
8       "softwareVersion": "8.8.125.0",
9       "macAddress": "28:6f:7f:cc:2c:20",
10      "apManagerInterfaceIp": "192.168.111.84",
11      "associatedWlcIp": "192.168.111.84",
12      "bootDateTime": null,
13      "collectionStatus": "Managed"
14    }
15  ]
16 }
```

Status Code: 200

Cancel Run

Code Preview

additional criteria. You can also use the asterisk (*) in the following request: GET /api/v1/network-devices?technicalName=network-device&restMethod=GET&majorVersion=1. Parameter names that you can use for filtering requests are listed below and ignores the other request parameters.

Parameter Name	Required
id	false
module+vendorequipmenttype	false
module+partnumber	false
module+operationstatecode	false
memorySize	false
family	false
lastUpdateTime	false
softwareType	false
softwareVersion	false
macAddress	false
apManagerInterfaceIp	false
associatedWlcIp	false
bootDateTime	false
collectionStatus	false