



## Auto Config Examples

### How to Use the DFA Rest APIs to Control Auto-Configuration

This example shows how to use DCNM REST APIs for auto-configuration.



**Note**

While reviewing the actual API calls, a section is available to provide the sample.

### Steps to Create a Network

- Step 1** Logon to get a token
- Step 2** Create a Profile
- Step 3** Create an Organization
- Step 4** Create a network under the partition.
- Step 5** Logout

### Example to call Logon

**URL:** https://10.77.247.111/rest/logon  
**HTTP Method:** POST  
**Resource Name:** /rest/logon  
**Host:** 10.77.247.111  
**User-Agent:** Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3  
**Accept:** text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
**Accept-Language:** en-us,en;q=0.5  
**Accept-Encoding:** gzip,deflate  
**Accept-Charset:** ISO-8859-1,utf-8;q=0.7,\*;q=0.7  
**Keep-Alive:** 115  
**Connection:** keep-alive  
**Content-Type:** application/json; charset=UTF-8  
**Authorization:** Basic YWRtaW46YWRtaW4xMjM=  
**Content-Length:** 28  
**Cookie:** JSESSIONID=4C975316B01A44215861475E1B5F9328  
**Pragma:** no-cache  
**Cache-Control:** no-cache

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```

{"expirationTime": 1000000}
HTTP/1.1
Status Code: 200 OK
Content-Type: application/json
{
  "token" : " NUVyu5Y0YHDv0tT6xFuIPd+Cu90A1XCQ "
}

```

**Example to create a profile**

```

URL: http://10.77.247.111/rest/auto-config/profiles
HTTP Method: POST
Resource Name: /rest/auto-config/profiles
Host: 10.77.247.111
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3)
Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
Content-Type: application/json; charset=UTF-8
Dcnm-Token: NUVyu5Y0YHDv0tT6xFuIPd+Cu90A1XCQ
Content-Length: 179
Cookie: JSESSIONID=4C975316B01A44215861475E1B5F9328
Pragma: no-cache
Cache-Control: no-cache
{
  "profileName": " GoldProfile",
  "description": "Gold profile",
  "vlanId": "$vlanId",
  "segmentId": "$segmentId",
  "interfaceVlanId": "$vlanId",
  "gatewayIpAddress": "$gatewayIpAddress",
  "netMaskLength": "$netMaskLength",
  "forwardingMode": "$forwardingMode",
  "ipDhcp": "$ipDhcp",
  "configCommands": " vlan $vlanId \nvn-segment $segmentId\ninterface Vlan
  $vlanId\nip address      $gatewayIpAddress/$netMaskLength\nfabric
  forwarding mode $forwardingMode\nip dhcp relay address $ipDhcp \nno
  shutdown "
}
Status Code: 202 Accepted
Content-Type: application/json
{
  "tprofileName" : "GoldProfile"
}

```

**Example to create an organization**

```

URL: http://10.77.247.111/rest/auto-config/organizations

```

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```

HTTP Method: POST
Resource Name: /rest/auto-config/organizations
Host: 10.77.247.111
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3)
Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
Content-Type: application/json; charset=UTF-8
Dcnm-Token: NUVyu5Y0YHDv0tT6xFuIPd+Cu9OA1XCQ
Content-Length: 179
Cookie: JSESSIONID=4C975316B01A44215861475E1B5F9328
Pragma: no-cache
Cache-Control: no-cache
{
  "organizationName" : "organization1",
  "description" : "organization1",
  "profileName" : "GoldProfile",
  "forwardingMode" : "anycast-gateway",
  "configArg" : [ "$netMaskLength=24",
"$gatewayIpAddress=10.10.10.1", "$partitionName=partition1", "
$forwardingMode=anycast-gateway", " $networkName=Net-Dev-101" ]
  "orchestrationSource" : "vCloud Director",
}
Status Code: 202 Accepted
Content-Type: application/json
{
  "organizationName" : "organization1"
}

```

**Example to list organizations**

```

URL: http://10.77.247.111/rest/auto-config/organizations
HTTP Method: GET
Resource Name: /rest/auto-config/organizations?detail=true
Host: 10.77.247.111
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3)
Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
Content-Type: application/json; charset=UTF-8
Dcnm-Token: NUVyu5Y0YHDv0tT6xFuIPd+Cu9OA1XCQ
Content-Length: 179
Cookie: JSESSIONID=4C975316B01A44215861475E1B5F9328
Pragma: no-cache

```

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```

Cache-Control: no-cache
Accept: application/json
Status Code: 200 OK
Content-Type: application/json
{
  "organizations" : [ {
    "organizationName" : "organization1",
    "description" : "organization1",
    "profileName" : "GoldProfile",
    "forwardingMode" : "anycast-gateway",
    "configArg" : [ "$netMaskLength=24",
"$gatewayIpAddress=10.10.10.1", "$partitionName=partition1", "
"$forwardingMode=anycast-gateway", " $networkName=Net-Dev-101" ]
    "orchestrationSource" : "vCloud Director",
  }, {
    "organizationName": "organization2",
    "description" : "organization2",
    "profileName" : "SilverProfile",
    "forwardingMode" : "anycast-gateway",
    "configArg" : [ "$netMaskLength=24",
"$gatewayIpAddress=20.20.20.1", "$partitionName=partition2",
"$forwardingMode=anycast-gateway", "$networkName=Net-Dev-102" ],
    "orchestrationSource" : "vCloud Director"
  } ]
}

```

**Example to create a Partition**

```

URL: http://10.77.247.111/rest/auto-config/organizations/organization1/partitions
HTTP Method: POST
Resource Name: /rest/auto-config/organizations/organization1/partitions
Host: 10.77.247.111
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
Content-Type: application/json; charset=UTF-8
Dcrnm-Token: NUVyu5Y0YHDv0tT6xFuIPd+Cu90A1XCQ
Content-Length: 179
Cookie: JSESSIONID=4C975316B01A44215861475E1B5F9328
Pragma: no-cache
Cache-Control: no-cache
{
  "partitionName" : "partition1",
  "description" : "partition1",
  "profileName" : "GoldProfile",
  "forwardingMode" : "anycast-gateway",

```

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```

"configArg" : [ "$netMaskLength=24",
"$gatewayIpAddress=10.10.10.1", "$partitionName=partition1", "
$forwardingMode=anycast-gateway", " $networkName=Net-Dev-101" ],
  "vpnId" : "100",
  "organizationName" : "organization1",
}
Status Code: 202 Accepted
Content-Type: application/json
{
    "partitionName" : "partition1"
}

```

**Example to create a network**

```

URL: http://10.77.247.111/rest/auto-config/organizations/
organization1/partitions/partition1/networks
HTTP Method: POST
Resource Name:
/rest/auto-config/organizations/organization1/partitions/partition1/netw
orks
Host: 10.77.247.111
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3)
Gecko/20100401 Firefox/3.6.3
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 115
Connection: keep-alive
Content-Type: application/json; charset=UTF-8
Dcnm-Token: NUVyu5Y0YHDv0tT6xFuIPd+Cu9OA1XCQ
Content-Length: 179
Cookie: JSESSIONID=4C975316B01A44215861475E1B5F9328
Pragma: no-cache
Cache-Control: no-cache
{
  "segmentId" : "100001",
  "description" : "segment1",
  "profileName" : "defaultNetworkIpv4EfProfile",
  "forwardingMode" : "anycast-gateway",
  "configArg" : [ "$netMaskLength=24",
"$gatewayIpAddress=10.10.10.1", "$partitionName=partition1", "
$forwardingMode=anycast-gateway", " $networkName=Net-Dev-101" ],
  "hostMacAddress" : "08:00:69:02:01:10",
  "partitionName" : "partition1",
}
Status Code: 202 Accepted
Content-Type: application/json
{
    "segmentId" : "100001"
}

```

**REVIEW DRAFT – CISCO CONFIDENTIAL****Example to Logout**

**URL:** http://10.77.247.111/rest/logout  
**HTTP Method:** POST  
**Resource Name:** /rest/logout  
**Host:** 10.77.247.111  
**User-Agent:** Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.2.3) Gecko/20100401 Firefox/3.6.3  
**Accept:** text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
**Accept-Language:** en-us,en;q=0.5  
**Accept-Encoding:** gzip,deflate  
**Accept-Charset:** ISO-8859-1,utf-8;q=0.7,\*;q=0.7  
**Keep-Alive:** 115  
**Connection:** keep-alive  
**Content-Type:** application/json; charset=UTF-8  
**Dcmm-Token:** NUVyu5Y0YHDv0tT6xFuIPd+Cu90A1XCQ  
**Content-Length:** 179  
**Cookie:** JSESSIONID=4C975316B01A44215861475E1B5F9328  
**Pragma:** no-cache  
**Cache-Control:** no-cache  
**Status Code:** 202 Accepted