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# Modify L3 VPN

On this page we demonstrate how we can edit some parameters for an already deployed Service In this example, we continue with our earlier example of [L3VPN](#) and propose to alter its QoS parameters. So Here is the PE's complete configuration

```
! Cisco_IOS Template 'c7600' Rev=2017-10-23 20:28 Seq=1
! This configuration is automatically generated at 2017-12-01 14:20:33
!
access-list 2 permit 172.16.5.22 0.0.0.0
!
class-map acgroup2
  match access-group 2
  exit
!
policy-map police
  class acgroup2
    police 10000 4000 6000 conform-action transmit exceed-action set-qos-
transmit 4 violate-action drop
  exit
!
ip vrf CustA
  rd 172.31.0.11:1
  route-target both 65001:1
ip vrf CustB
  rd 172.31.0.11:9
  route-target both 65001:9
!
interface Ethernet1/2
  ip vrf forwarding CustA
  ip address 5.5.5.1 255.255.255.252
  service-policy input police
  no shut
interface Ethernet1/3
  ip vrf forwarding CustB
  ip address 5.5.5.5 255.255.255.252
  service-policy input police
  no shut
router bgp 65001
!
  address-family ipv4 vrf CustA
    redistribute static
    redistribute connected
!
  address-family ipv4 vrf CustB
    redistribute static
    redistribute connected
!
```

Here we can see the QoS' Police parameters are:

```
police 10000 4000 6000 conform-action transmit exceed-action set-qos-
transmit 4 violate-action drop
```

We can alter these parameters by using Custom Attributes

We create three custom attributes and place them under the node as shown in the snapshot below

The screenshot shows the 'Custom attributes' section of the NetICE configuration interface. It displays a table of custom attributes with columns: Variable name, Grouping sort, Type, Size format, Default, and Edit level. The attributes listed are:

Variable name	Grouping sort	Type	Size format	Default	Edit level
avg_rate_bps		NUM	32	10000	Operator
excess_burst_rate_bps		NUM	32	4000	Operator
normal_burst_rate_bps		NUM	32	2000	Operator
snmp_syscontact	1-Snmp	CHAR	100		Operator
snmp_syslocation	1-Snmp	CHAR	100		Operator
snmp_sysname	1-Snmp	CHAR	32		Operator

Below the table, there is a form to edit a variable. The 'Variable name' is 'avg\_rate\_bps', the 'Type' is 'NUM', and the 'Default' value is '10000'. The 'Edit level' is set to 'Operator'.

Now if we view the Node in BUILD menu, we can see the three custom attributes are shown as below

The screenshot shows the 'Edit Node' dialog box in the NetICE configuration interface. The 'Custom attributes' tab is selected. It displays a form with various fields for custom attributes. The fields and their values are:

- avg\_rate\_bps: 10000
- excess\_burst\_rate\_bps: 6000
- normal\_burst\_rate\_bps: 4000
- snmp\_syscontact:
- snmp\_syslocation:
- snmp\_sysname: get my domain
- Node\_profile1: Standard
- Node\_profile2: None
- Rtr\_reserve1:
- Rtr\_reserve2:
- Rtr\_reserve3:
- Rtr\_reserve4:
- MER\_location:
- Sim\_size:

At the bottom of the dialog, there are buttons for 'Close', 'Apply', and 'OK'.

We can freely alter these custom fields values to as needed. Lets alter them from 10000,4000 and 6000 to 12000,6000 and 8000 and then generate the config Now if we head over to Operate -> Tools -> View config, we can see the CLI is automatically updated. (Since the template for Police calls upon these variables)

## police\_qos

```
access-list 2 permit 172.16.5.22 0.0.0.0
!
class-map acgroup2
```

```
match access-group 2
exit
!
policy-map police
class acgroup2
police <avg_rate_bps> <normal_burst_rate_bps> <excess_burst_rate_bps>
conform-action transmit exceed-action set-qos-transmit 4 violate-action drop
exit
!
```

Now its matter of creating a specific job to push the config to the device. For e.g

## Job Name:

Update QoS

### Commands:

```
{police_qos}
```

### Scenario:

(the defaults, nothing needs to be modified from the scenario available in the “Default Command Job”)

```
[parameters]
node = 'PE1'
verbose = '-v'

[scenario]
Description <node> Command_job...
task = Command_job

end
```

From:

<https://wiki.netyce.com/> - **Technical documentation**

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