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MPLS vpns

Within the  **MPLS** VPN form, it is possible to define MPLS VPN's. Instead of fixed values, it's possible to use **parameterized** values.

Although the term MPLS is used, this form and the information stored can also be used as a  **VRF lite** configuration.

Mpls Vrfs

| Client type | Vrf id | Vrf name | Vrf rd | Vrf rt |
|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| sp | 111 | Cust-A | 1:<Vrf_id> | 1:100 |
| sp | 222 | Cust-B | 2:<Vrf_id> | 2:200 |
| YCE | 555 | customer555 | 172.16.0.1 | 172.16.0.1:64512555 |
| DCvxlan | 1 | management | | |
| YCE | 1 | MGMT | 1 | <loopback>:1 |
| DCvxlan | 10026 | shared | auto | |
| DCvxlan | 10077 | TENANT77 | auto | |
| campus | 2345 | vrf-2345 | | |

New

Delete

Client type:

YCE

Vrf id:

555

Vrf name:

customer555

Vrf as:

64512

Vrf rd:

172.16.0.1

Vrf rt:

172.16.0.1:64512555

Mpls option 1:

Mpls option 2:


Mpls type:

Mpls management:

0

Save

VRF id

The  **VRF** id is used as a reference value within the system. It is possible to use this parameter within the configuration. This id is not the individual id for a VRF on a device, but the ID for this type of VRF on all devices.

VRF name

The actual name of the VRF. This can be parameterized, so it will have a name related to the device it is provisioned on.

Client type

The [Client type](#) where this VRF can be used.

VRF AS

The [Autonomous System](#) number which will be used within the VRF configuration.

VRF Route distinguisher

The [Route distinguisher](#) used for this configuration. When using a VRF lite configuration, this setting is not necessary. We would recommend `global.unique.ipv4.address.pe+vrf_id` ¹⁾ as the route distinguisher. This setting had the highest probability of being global unique.

VRF Route target

The [route target](#) used for this configuration. Again, when using VRF lite, this setting is not necessary.

MPLS option 1

Additional MPLS options, which is free format. This could be used for any value. Such as maximum route statements, or additional route target import or exports.

MPLS option 2

Same as MPLS option 1.

MPLS_management

Set this option to 1 in case this VRF will be used for management, NetYCE will use the name entered at the *VRF name* field when transferring files for the following vendors: HP Comware 7, Huawei.

MPLS_type

To assist creating categories of Node VRFs, `Mpls_types` and `Vrf_types` can be used. These values are set in the [General settings](#).

The values for these attributes are defined in the 'Lookup' using the 'Mpls_type' variable of the 'Translation' class. As many entries as desired can be created using this lookup variable. These values will be presented as drop-down menu lists from which one value can be selected.

1)

<http://blog.ipspace.net/2012/07/bgp-route-replication-in-mplsvpn-pe.html>

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