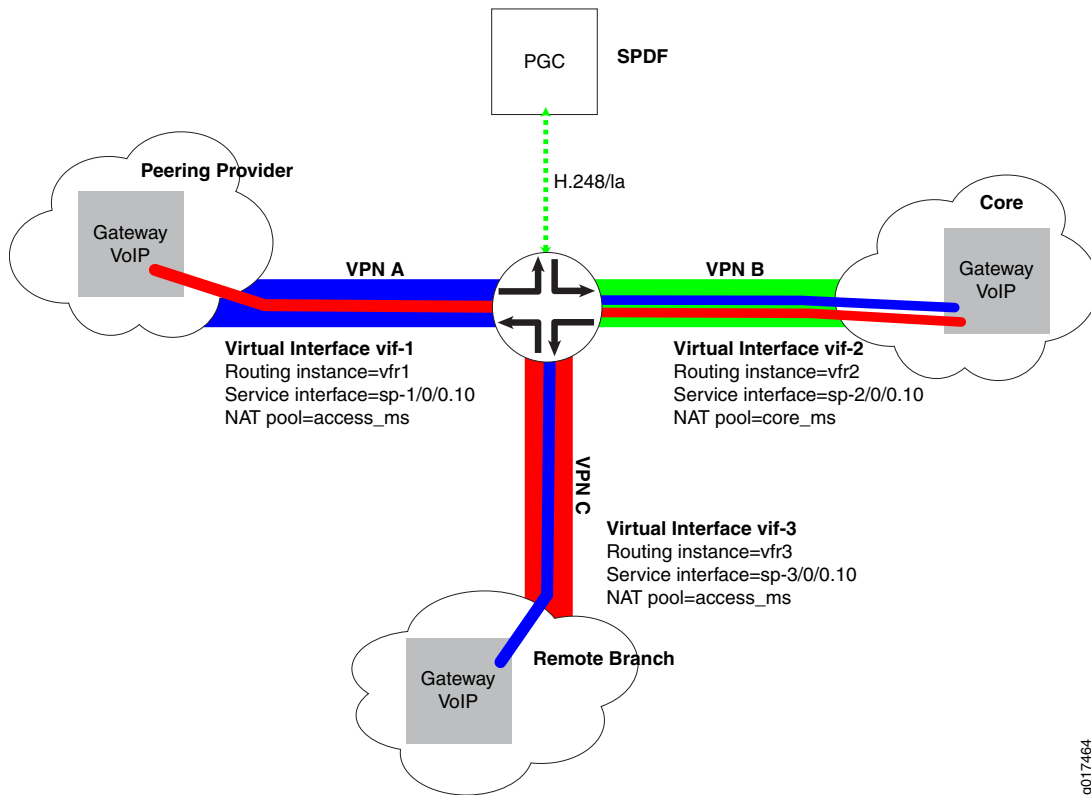


Configuring VPN Aggregation

VPN aggregation configurations have the following requirements.

- All interfaces in a pool must belong to the same service PIC.
- Logical interfaces cannot be in more than one pool.
- All interfaces must have either `family inet` or `family inet6` configured.
- Logical unit 0 cannot be configured in a service interface pool.
- The maximum number of service interfaces in a pool is 1000.
- The service set must have a next-hop service that is set to the service interface pool; it cannot have inside and outside services.
- The service set must have a BGF rule.
- In the virtual interface configuration, the service interface must match the interface configured in the VRF routing instance.
- The virtual interface configuration must include all media services in the BGF rule that is configured in the service set.

[xref target has no title] illustrates the configuration in this topic.



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To configure VPN aggregation:

1. Configure a policy statement to be used for the vrf-import and vrf-export policies that you plan to configure in the routing instances.

```
[edit]
user@host# edit policy-options policy-statement policy-1
```

```
[edit policy-options policy-statement policy-1]
user@host# set term t1 then reject
```

2. Configure a VRF routing instance for each VPN.

```
[edit]
user@host# edit routing-instances vrf1
```

```
[edit routing-instances vrf1]
user@host# set instance-type vrf
user@host# set interface sp-1/0/0.10
user@host# set route-distinguisher 10.10.10.11:0
user@host# set vrf-import policy-1
user@host# set vrf-export policy-1
```

```
[edit]
user@host# edit routing-instances vrf2
```

```
[edit routing-instances vrf2]
user@host# set instance-type vrf
user@host# set interface sp-2/0/0.10
user@host# set route-distinguisher 10.10.10.22:0
user@host# set vrf-import policy-1
user@host# set vrf-export policy-1
```

```
[edit]
user@host# edit routing-instances vrf3
```

```
[edit routing-instances vrf3]
user@host# set instance-type vrf
user@host# set interface sp-3/0/0.10
user@host# set route-distinguisher 10.10.10.33:0
user@host# set vrf-import policy-1
user@host# set vrf-export policy-1
```

3. Configure a pool of logical service interfaces that are configured in the VRF routing instances.

```
[edit]
user@host# edit services service-interface-pools pool bgf-pool
```

```
[edit services service-interface-pools pool bgf-pool]
user@host# set interface sp-1/0/0.10
user@host# set interface sp-2/0/0.10
user@host# set interface sp-3/0/0.10
```

4. Create a service set that links the VRF and the BGF services. Specify the service interface pool as the next-hop service. The service set must contain a BGF rule. It cannot contain any other type of rule.

```
[edit]
user@host# edit services service-set bgf
```

```
[edit services service-set bgf]
user@host# set next-hop-service service-interface-pool bgf-pool
user@host# set pgcp-rules bgf-rule
```

5. Configure a virtual interface for each VRF routing instance.

```
[edit]
user@host# edit services pgcp virtual-interface 1
```

```
[edit services pgcp virtual-interface 1]
user@host# set routing-instance vrf1 service-interface sp-1/0/0.10
user@host# set nat-pool access_ms
```

```
[edit]
user@host# edit services pgcp virtual-interface 2
```

```
[edit services pgcp virtual-interface 2]
user@host# set routing-instance vrf2 service-interface sp-2/0/0.10
user@host# set nat-pool core_ms
```

```
[edit]
user@host# edit services pgcp virtual-interface 3
```

```
[edit services pgcp virtual-interface 3]
user@host# set routing-instance vrf3 service-interface sp-3/0/0.10
user@host# set nat-pool access_ms
```

- Related Topics**
- VPN Aggregation for VoIP Calls Overview
 - *JUNOS VPNs Configuration Guide*

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