

Creating Virtual Routers for the CMTS Device with the SRC CLI

You need to add a virtual router object called default to the CMTS device.

Use the following configuration statements to add a virtual router:

```
shared network device name virtual-router name {
  sae-connection [ sae-connection ...];
  snmp-read-community snmp-read-community ;
  snmp-write-community snmp-write-community ;
  scope [ scope ...];
  local-address-pools local-address-pools ;
  static-address-pools static-address-pools ;
  tracking-plug-in [ tracking-plug-in ...];
}
```

To add a virtual router:

1. From configuration mode, access the configuration statements for virtual routers. You must specify the name of a device with lowercase characters. In this sample procedure, pcmm_dtr is the name of the router and default is the name of the virtual router.

```
user@host# edit shared network device pcmm_dtr virtual-router default
```

2. Specify the addresses of SAEs that can manage this router. This step is required for the SAE to work with the router.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set sae-connection [ sae-connection ...]
```

3. (Optional) Specify an SNMP community name for SNMP read-only operations for this VR.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set snmp-read-community snmp-read-community
```

4. (Optional) Specify an SNMP community name for SNMP write operations for this virtual router.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set snmp-write-community snmp-write-community
```

5. (Optional) Specify service scopes assigned to this virtual router.

See Configuring Service Scopes.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set scope [ scope ...]
```

6. (Optional) Specify the list of IP address pools that a CMTS virtual router currently manages and stores.

If you are using assigned IP subscribers along with the network information collector (NIC), you need to configure either a local or static address pool so that the NIC can resolve the IP-to-SAE mapping.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set local-address-pools local-address-pools
```

7. (Optional) Specify the list of IP address pools that a CMTS VR manages but does not store.

If you are using assigned IP subscribers along with the NIC, you need to configure either a local or static address pool so that the NIC can resolve the IP-to-SAE mapping.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# set static-address-pools static-address-pools
```

8. (Optional) Specify the plug-ins that track interfaces that the SAE manages on this virtual router.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# tracking-plugin-in [ tracking-plugin-in ...]
```

9. (Optional) Verify your configuration.

```
[edit shared network device pcmm_dtr virtual-router default]
user@host# show
sae-connection [ 10.14.39.2 10.10.5.30 ];
snmp-read-community *****;
snmp-write-community *****;
scope POP-Westford;
local-address-pools "10.25.8.0 10.25.20.255";
tracking-plugin-in rksPlugin;
```