

## Setting Up SAE Communities

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Tasks to configure SAE communities are:

- If there is a firewall in the network, configuring the firewall to allow SAE messages through.
- 1. Adding Virtual Router Objects on page 1
- 2. Configuring the SAE Community Manager on page 2
- 3. Specifying the Community Manager in the SAE Device Driver on page 3

### Adding Virtual Router Objects

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 ...];  
    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. This sample procedure uses `proxy_device` as the name of the router object. For third-party devices, use the name default for the virtual router.

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

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

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

5. (Optional) Specify service scopes assigned to this virtual router. The scopes are available for subscribers connected to this virtual router for selecting customized versions of services.

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

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

```
[edit shared network device proxy_device virtual-router default]
user@host# set tracking-plug-in [ tracking-plug-in ...]
```

7. (Optional) Verify your configuration.

```
[edit shared network device proxy_device virtual-router default]
user@host# show
sae-connection 10.8.221.45;
snmp-read-community *****;
snmp-write-community *****;
scope POP-Toronto;
tracking-plug-in flexRadius;
```

## Configuring the SAE Community Manager

Use the following configuration statements to configure the SAE community manager that manages third-party network device communities:

```
shared sae configuration external-interface-features name CommunityManager {
  keepalive-interval keepalive-interval ;
  threads threads ;
  acquire-timeout acquire-timeout ;
  blackout-time blackout-time ;
}
```

To configure the community manager:

1. From configuration mode, access the configuration statements for the community manager. In this sample procedure, `sae_mgr` is the name of the community manager.

```
user@host# edit shared sae configuration external-interface-features sae_mgr
CommunityManager
```

2. Specify the interval between keepalive messages sent from the active SAE to the passive members of the community.

```
[edit shared sae configuration external-interface-features sae_mgr
CommunityManager]
user@host# set keepalive-interval keepalive-interval
```

3. Specify the number of threads that are allocated to manage the community. You generally do not need to change this value.

```
[edit shared sae configuration external-interface-features sae_mgr
CommunityManager]
user@host# set threads threads
```

4. Specify the amount of time an SAE waits for a remote member of the community when it is acquiring a distributed lock. You generally do not need to change this value.

```
[edit shared sae configuration external-interface-features sae_mgr
CommunityManager]
user@host# set acquire-timeout acquire-timeout
```

5. Specify the amount of time that an active SAE must wait after it shuts down before it can try to become the active SAE of the community again.

```
[edit shared sae configuration external-interface-features sae_mgr
CommunityManager]
user@host# set blackout-time blackout-time
```

6. (Optional) Verify the configuration of the SAE community manager.

```
[edit shared sae configuration external-interface-features sae_mgr
CommunityManager]
user@host# show
CommunityManager {
    keepalive-interval 30;
    threads 5;
    acquire-timeout 15;
    blackout-time 30;
}
```

## Specifying the Community Manager in the SAE Device Driver

Use the following configuration statements to specify the community manager in the SAE device driver.

```
shared sae configuration driver third-party {
    sae-community-manager sae-community-manager ;
}
```

To specify the community manager:

1. From configuration mode, access the configuration statements for the third-party device driver.

```
user@host# edit shared sae configuration driver third-party
```

2. Specify the name of the community manager.

```
[edit shared sae configuration driver third-party]
user@host# set sae-community-manager sae-community-manager
```

3. (Optional) Verify the configuration of the third-party device driver.

```
[edit shared sae configuration driver third-party]
user@host# show
sae-community-manager sae_mgr;
```

