

## Configuring the SAE to Manage PCMM Devices (SRC CLI)

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The SAE connects to the PCMM device by using a COPS over TCP connection. The PCMM device driver controls this connection.

Use the following configuration statements to configure the SAE to manage CMTS devices:

```
shared sae configuration driver pcmm {
  keepalive-interval keepalive-interval ;
  tcp-connection-timeout tcp-connection-timeout ;
  application-manager-id application-manager-id ;
  message-timeout message-timeout ;
  cops-message-maximum-length cops-message-maximum-length ;
  cops-message-read-buffer-size cops-message-read-buffer-size ;
  cops-message-write-buffer-size cops-message-write-buffer-size ;
  sae-community-manager sae-community-manager ;
  disable-full-sync disable-full-sync ;
  disable-pcmm-i03-policy disable-pcmm-i03-policy ;
  session-recovery-retry-interval session-recovery-retry-interval ;
  element-id element-id ;
  default-rks-plug-in default-rks-plug-in ;
}
```

To configure the SAE to manage CMTS devices:

1. From configuration mode, access the configuration statement that configures the PCMM driver. In this sample procedure, the PCMM device driver is configured in the west-region group.

```
user@host# edit shared sae group west-region configuration driver pcmm
```

2. Configure the interval between keepalive messages sent from the COPS client (the PCMM device) to the COPS server (the SAE).

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set keepalive-interval keepalive-interval
```

3. Configure the timeout for opening a TCP connection to the PCMM device.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set tcp-connection-timeout tcp-connection-timeout
```

4. When this SAE is configured as the application manager, configure the identifier of the application manager.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set application-manager-id application-manager-id
```

5. Configure the time that the COPS server (the SAE) waits for a response to COPS requests from the COPS client (the PCMM device). Change this value only if a high number of COPS timeout events appear in the error log.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set message-timeout message-timeout
```

6. Configure the maximum length of a COPS message.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set cops-message-maximum-length cops-message-maximum-length
```

7. Configure the buffer size for receiving COPS messages from the COPS client.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set cops-message-read-buffer-size cops-message-read-buffer-size
```

8. Configure the buffer size for sending COPS messages to the COPS client.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set cops-message-write-buffer-size cops-message-write-buffer-size
```

9. Configure the name of the community manager that manages PCMM driver communities. Active SAEs are selected from this community.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set sae-community-manager sae-community-manager
```

10. Enable or disable state synchronization with PCMM policy servers.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set disable-full-sync disable-full-sync
```

11. Enable or disable the SAE to send classifiers to the router that comply with PCMM IO3. Disable this option if your network deployment has CMTS devices that do not support PCMM IO3.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set disable-pcmm-io3-policy disable-pcmm-io3-policy
```

12. Configure the time between attempts by the SAE to restore service sessions that are being recovered in the background when state synchronization completes with a state-data-incomplete error.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set session-recovery-retry-interval session-recovery-retry-interval
```

13. (Optional) Configure the unique identifier that the SAE uses to identify itself when it originates in record-keeping server (RKS) events.

```
[edit shared sae group west-region configuration driver pcmm]
user@host# set element-id element-id
```

14. (Optional) Specify the name of the default RKS plug-in to which the SAE sends events for CMTS devices.

```
[edit shared sae group west-region configuration driver pcmm]
```

```
user@host# set default-rks-plugin default-rks-plugin
```

15. (Optional) Verify your PCMM driver configuration.

```
[edit shared sae group west-region configuration driver pcmm]  
user@host# show  
keepalive-interval 45;  
tcp-connection-timeout 5;  
application-manager-id 1;  
message-timeout 120000;  
cops-message-maximum-length 204800;  
cops-message-read-buffer-size 3000;  
cops-message-write-buffer-size 3000;  
sae-community-manager PcmCommunityManager;  
disable-full-sync true;  
disable-pcmm-i03-policy true;  
session-recovery-retry-interval 3600000;  
element-id 1;  
default-rks-plugin rksTracking;
```

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  - Connections to Managed Devices
  - Configuring the SAE to Manage PCMM Devices (C-Web Interface)
  - Configuring CMTS-Specific RKS Plug-Ins (SRC CLI)
  - Initially Configuring the SAE

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