Chapter 11
Configuring the SAE for a PCMM Environment with the C-Web Interface

This chapter shows how to set up the SAE for a PacketCable Multimedia Specification (PCMM) environment with the C-Web interface.

You can also use the SRC CLI to configure the SAE for a PCCM environment. For more information, see *SRC-PE Solutions Guide, Chapter 5, Configuring the SAE for a PCMM Environment with the SRC CLI*.

Topics in this chapter include:

■ Configuring the SAE for a Cable Network Environment with the C-Web Interface on page 91

■ Configuring the SAE to Manage PCMM Devices with the C-Web Interface on page 92

■ Setting Up SAE Communities with the C-Web Interface on page 93

■ Configuring SAE Properties for the Event Notification API with the C-Web Interface on page 94

■ Configuring PCMM Record-Keeping Server Plug-Ins with the C-Web Interface on page 94

■ Configuring CMTS-Specific RKS Plug-Ins with the C-Web Interface on page 94

■ Configuring Record-Keeping Server Peers for Plug-Ins with the C-Web Interface on page 95

Configuring the SAE for a Cable Network Environment with the C-Web Interface

The tasks to configure the SAE for a cable network environment are:

1. Configure the SAE to manage PCCMM devices.

   See Configuring the SAE to Manage PCMM Devices with the C-Web Interface on page 92.

2. Configure the session store.

   See *Chapter 8, Setting Up an SAE with the C-Web Interface*.

3. Set up SAE communities.

   See Setting Up SAE Communities with the C-Web Interface on page 93.

4. (Optional) Configure SAE properties for the Event Notification API.

   See Configuring SAE Properties for the Event Notification API with the C-Web Interface on page 94 (if you are using an external address manager).

5. (Optional) Configure record-keeping server peers for plug-ins.

   See Configuring Record-Keeping Server Peers for Plug-Ins with the C-Web Interface on page 95 (if you are using the RKS plug-in).

6. (Optional) Configure PCMM record-keeping server plug-ins.

   See Configuring PCMM Record-Keeping Server Plug-Ins with the C-Web Interface on page 94 (if you are using the SAE's embedded policy server).

In addition to configuring the SAE, you need to:

1. Configure the CMTS device in the directory (if you are using the SAE's embedded policy server).

   See *Adding Objects for CMTS Devices with the C-Web Interface* on page 185.

2. Configure the NIC (if you are using assigned IP subscribers).

   See *SRC-PE Solutions Guide, Chapter 8, Using the NIC Resolver in a PCMM Environment*.

3. Enable the Common Open Policy Service (COPS) interface on the CMTS device. See the documentation for your CMTS device for information about how to do this.

Configuring the SAE to Manage PCMM Devices with the C-Web Interface

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

To configure the SAE to manage PCMM devices:

1. Click **Configure**, expand **Shared > SAE > Configuration > Driver**, and then click **PCCM**.

   The PCCM pane appears.

2. Click **Create**, enter information as described in the Help text in the main pane, and then click **Apply**.

For information about setting up SAE groups, see *Chapter 8, Setting Up an SAE with the C-Web Interface.*

Setting Up SAE Communities with the C-Web Interface

You can configure the following for SAE communities:

- Define the members of an SAE community by adding the IP addresses of SAEs in the community to the virtual router object of the network device in the directory.

    See *Creating Virtual Routers for the CMTS Device with the C-Web Interface* on page 186.

- Specify the name of the community manager.

    See *Configuring the SAE to Manage PCMM Devices with the C-Web Interface* on page 92.

- Configure parameters for the SAE community manager.

    See *Configuring the SAE Community Manager* on page 93.

- If there is a firewall in the network, configure the firewall to allow SAE messages through.

Configuring the SAE Community Manager

To configure the SAE community manager that manages PCMM device communities:

1. Click **Configure**, expand **Shared > SAE**, and then expand the SAE group for which you want to manage PCMM devices.

2. In the side pane, expand **Configuration > External Interface Features: PCMMCommunityManager**, and then click **Community Manager**.

    The Community pane appears.

3. Enter information as described in the Help text in the main pane, and click **Apply**.

For information about setting up SAE groups, see *Chapter 8, Setting Up an SAE with the C-Web Interface.*

Configuring SAE Properties for the Event Notification API with the C-Web Interface

To configure properties for the event notification API:

1. Click **Configure**, expand **Shared > SAE**, and then expand the SAE group for which you want to manage devices.

2. In the side pane, expand **Configuration > External Interface Features: event**, and then click **Event API**.

   The Event API pane appears.

3. Enter information as described in the Help text in the main pane, and click **Apply**.

For information about setting up SAE groups, see *Chapter 8, Setting Up an SAE with the C-Web Interface.*

Configuring PCMM Record-Keeping Server Plug-Ins with the C-Web Interface

To configure an RKS plug-in:

1. Click **Configure**, expand **Shared > SAE**, and then expand the SAE group for which you want to create RKS plug-ins,

2. In the side pane, expand **Configuration > Plug Ins**.

3. Expand the plug-in that you created for RKS, and then click **PCMM RKS**.

4. Click **Create**, enter information as described in the Help text in the main pane, and then click **Apply**.

For additional information, see the following sources:

- For information about setting up SAE groups, see *Chapter 8, Setting Up an SAE with the C-Web Interface.*

- For information about creating a plug-in instance for a group, see *Chapter 27, Configuring Internal, External, and Synchronization Plug-Ins with the C-Web Interface*.

Configuring CMTS-Specific RKS Plug-Ins with the C-Web Interface

You can configure an RKS plug-in for specific CMTS devices. When there are events for the CMTS device, the SAE sends the events to the specified plug-in.

To configure a CMTS-specific RKS plug-in:

1. Click **Configure**, expand **Shared > SAE**, **> Configuration > Driver**, and then click **PCCM**.

1. Click **Configure**, expand **Shared > SAE**, and then expand the SAE group for which you want to create CMTS-specific RKS plug-ins.

2. In the side pane, expand **Configuration > Drivers**, and then click **PCCM**.

   The PCMM pane appears.

3. From the Create new list, select **CMTS Specific RKS Plug-Ins**.

4. Type a name for the new plug-in in the dialog box, and click **OK**.

5. In the side pane, click the new plug-in.

6. Click **Create**, enter information as described in the Help text in the main pane, and then click **Apply**.

Configuring Record-Keeping Server Peers for Plug-Ins with the C-Web Interface

An RKS peer is an instance of a record-keeping server. A PCMM environment has a primary RKS and optionally a secondary RKS. The primary RKS is mandatory, and you assign the RKS as primary by configuring it as the default peer in the RKS plug-in. The secondary RKS is optional, and it is an RKS peer that is not configured as the default peer. If you define multiple nondefault peers, one of them is randomly chosen to be the secondary RKS.

RKS peers are configured in the peer group for each PCMM RKS plug-in instance. To create an RKS peer group:

1. Click **Configure**, expand **Shared > SAE**, and then expand the SAE group for which you want to create RKS plug-ins.

2. In the side pane, expand **Configuration > Plug Ins**.

3. Expand the plug-in that you created for RKS, and then click **PCMM RKS**.

4. Enter information as described in the Help text in the main pane, and click **Apply**.

For additional information, see the following sources:

- For information about setting up SAE groups, see *Chapter 8, Setting Up an SAE with the C-Web Interface*.

- For information about creating a plug-in instance for a group, see *Chapter 27, Configuring Internal, External, and Synchronization Plug-Ins with the C-Web Interface*.