Chapter 9

Configuring Local and Global Parameters with the SRC CLI

This chapter describes how to configure global and local parameters with the SRC CLI. You can also use the following to configure parameters:

■ To use the C-Web interface, see *Chapter 10, Configuring Local and Global Parameters with the C-Web Interface*.

■ To use Policy Editor, see *Chapter 9, Configuring Local and Global Parameters with Policy Editor*.

Topics in this chapter include:

■ Viewing Predefined Global Parameters with the SRC CLI on page 201

■ Configuring Global Parameters with the SRC CLI on page 202

■ Configuring Local Parameters with the SRC CLI on page 203

■ Viewing Runtime Parameters with the SRC CLI on page 204

Viewing Predefined Global Parameters with the SRC CLI

To view predefined global parameters:

```
user@host> show configuration policies global-parameters ?
Possible completions:
  <name>              Parameter name
  any                 Parameter name
  bfwIf               Parameter name
  fc_assured          Parameter name
  fc_besteffort       Parameter name
  fc_expedited        Parameter name
  fwEnterpriseMaxPriority
                      Parameter name
  fwEnterpriseMinPriority
                      Parameter name
  fwMaxPriority       Parameter name
  fwMinPriority       Parameter name
  gfwIf               Parameter name
```

Configuring Global Parameters with the SRC CLI

If you change global variables for policies, the change takes effect the next time a service is activated; the change does not take effect for active service sessions.

Use the following configuration statement to create a global parameter:

```
policies global-parameters name {
    description description;
    default-value default-value;
    type type;
}
```

To create a global parameter:

1. From configuration mode, enter the global parameter configuration. For example, to create a parameter called bandwidth:

    user@host# **edit policies global-parameters bandwidth**

2. (Optional) Enter a description for the parameter. You can provide extra information and examples of how the parameter is used.

    [edit policies global-parameters bandwidth]
    user@host# **set description** *description*

3. (Optional) Configure a default value that the policy engine uses if no other values are provided during the parameter value acquisition process.

    See Table 23 on page 191 for valid values of each parameter type.

    [edit policies global-parameters bandwidth]
    user@host# **set default-value** *default-value*

4. (Optional) Type of attribute for which you can use the parameter.

    [edit policies global-parameters bandwidth]
    user@host# **set** type *type*

5. (Optional) Verify your configuration.

    ```
    [edit policies global-parameters bandwidth]
    user@host# show
    default-value 5000000;
    type rate;
    ```

Configuring Local Parameters with the SRC CLI

You create local parameters within a policy group. Use the following configuration statements to configure local parameters.

policies group *name* local-parameters *name* {
        description *description*;
        default-value *default-value*;
        type *type*;
}

To configure local parameters:

1. From configuration mode, enter the local parameter configuration. For example, to configure a local parameter called bandwidthFactor:

    user@host# **edit policies group policer local-parameters bandwidthFactor**

2. (Optional) Enter a description for the parameter. You can provide extra information and examples of how the parameter is used.

    [edit policies group policer local-parameters bandwidthFactor]
    user@host# **set description** *description*

3. (Optional) Configure a default value that the policy engine uses if no other values are provided during the parameter value acquisition process.

    See Table 23 on page 191 for valid values of each parameter type.

    [edit policies group policer local-parameters bandwidthFactor]
    user@host# **set default-value** *default-value*

4. (Optional) Set the type of attribute for which you can use the parameter.

    [edit policies group policer local-parameters bandwidthFactor]
    user@host# **set** type *type*

5. (Optional) Verify your configuration.

    [edit policies group policer local-parameters bandwidthFactor]
    user@host# **show**
    default-value 1024*1024;
    type rate;

Viewing Runtime Parameters with the SRC CLI

Runtime parameters are parameters that are filled in with an actual value from the running system when the policy is installed. The SRC software comes with many predefined runtime parameters. Although the SRC CLI allows you to modify runtime parameters, you should not modify them.

To view a list of runtime parameters:

```
user@host# edit policies global-parameters runtime-parameters ?
Possible completions:
  ah                 Maps protocol 51 to AH
  any_priority       Sets packet loss priority to "any"
  any_protocol       Sets the drop profile protocol to "any"
  best_effort        Service flow scheduling type is best effort
  bootp              Specifies the BOOTP protocol
  . . .
  user_ipAddress     IP address of the subscriber
  user_ipMask        IP mask of the subscriber
  virtual_ipAddress  Virtual portal address used with redundant SAEs
  winframe           Specifies the WinFrame protocol
  yellow             Sets the color of an action or classifier to yellow
```

To view information about runtime parameters:

```
user@host> show configuration policies global-parameters runtime-parameters
parameter interpolated {
  default-value "\"interpolate\"";
  type dropProfileType;
}

. . .

parameter low_priority {
  default-value "\"low\"";
  type packetLossPriority;
}
parameter ah {
  default-value 51;
  type protocol;
}
parameter sqlnet {
  default-value "\"sqlnet\"";
  type applicationProtocol;
}
parameter eq {
  default-value "\"eq\"";
  type portOperation;
}
```