

## 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 Policy Editor to configure global and local parameters. See *Chapter 10, Configuring Local and Global Parameters with Policy Editor*.

Topics in this chapter include:

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- Viewing Runtime Parameters with the SRC CLI on page 202

## Viewing Predefined Global Parameters with the SRC CLI

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To view predefined global parameters:

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

## Configuring Global Parameters with the SRC CLI

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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 parameter 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 parameter 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 parameter 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 189 for valid values of each parameter type.

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

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

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

5. (Optional) Verify your configuration.

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

## Configuring Local Parameters with the SRC CLI

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

```
policies group name local-parameters parameter 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 parameter  
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 parameter 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 189 for valid values of each parameter type.

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

5. (Optional) Verify your configuration.

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

## Viewing Runtime Parameters with the SRC CLI

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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 parameter ?
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;
}
```