

Classifying DHCP Subscribers (SRC CLI)

Use the following configuration statements to configure DHCP classification scripts:

```
shared sae dhcp-classifier rule name {  
    target target;  
}
```

```
shared sae dhcp-classifier rule name condition name ...
```

```
shared sae dhcp-classifier rule name {  
    script-value;  
    include include;  
}
```

A classification script can contain either a target and a condition or a script. If you do not define a script, the classifier must have both a target and a condition.

To configure DHCP classification scripts:

1. From configuration mode, enter the DHCP classifier configuration. In this sample procedure, the classifier is configured in the east-region SAE group.

```
user@host# edit shared sae group east-region dhcp-classifier
```

2. Create a rule for the classifier. You can create multiple rules for the classifier.

```
[edit shared sae group east-region dhcp-classifier]  
user@host# edit rule rule-1
```

3. Configure either a target or a script for the rule.

- Configure the target for the rule. If you configure a target, see Syntax for DHCP Classification Targets.

```
[edit shared sae group east-region dhcp-classifier rule rule-1]  
user@host# set target target
```

If you configured a target for the rule, you must configure a match condition for the rule. You can create multiple conditions for the rule. See “DHCP Classification Conditions” on page 3.

```
[edit shared sae group east-region dhcp-classifier rule rule-1]  
user@host# edit condition name
```

- Configure the script for the rule.

```
[edit shared sae group east-region dhcp-classifier rule rule-1]  
user@host# edit script
```

(Optional) You can specify a script target.

```
[edit shared sae group east-region dhcp-classifier rule rule-1 script]
```

```
user@host# set script-value
```

(Optional) You can include a script that has already been created.

```
[edit shared sae group east-region dhcp-classifier rule rule-1 script]
user@host# set include include
```

where *include* is a reference to an existing script that is included in the script you are configuring.

4. (Optional) Change the order of rules.

```
[edit shared sae group east-region dhcp-classifier]
user@host# insert rule rule-5 before rule-4
```

5. (Optional) Rename a rule.

```
[edit shared sae group east-region dhcp-classifier]
user@host# rename rule rule-2 to dhcp
```

6. (Optional) Verify the classifier rule configuration.

```
[edit shared sae group east-region dhcp-classifier rule rule-1]
user@host# show
target cn=default,<-dhcpProfileDN->;
condition {
    1;
}
```

7. (Optional) Verify the DHCP classifier configuration.

```
[edit shared sae group east-region dhcp-classifier]
user@host# show
rule rule-1 {
    script "# DHCP classification script
#
# The DHCP classification script can use the following fields:
#
# interfaceName      - interface where DHCP DISCOVER was received.
# ifAlias            - \"ip description\" of interface
# ifDesc             - SNMP standard name of interface
# nasPortId
# virtualRouterName  - VR where DHCP DISCOVER was received
# macAddress         - MAC address of DHCP client
# dhcp               - DHCP options
# poolName           - DHCP Pool name set by authorization plug-in
# authVirtualRouterName - VR name set by authorization plug-in
# dhcpProfileDN      - search base for DHCP Profiles

";
}
rule rule-2 {
    target cn=default,<-dhcpProfileDN->;
    condition {
        1;
    }
}
```

```
}  
}
```

- Related Topics**
- Sending DHCP Options to the JUNOS Router
 - Selecting DHCP Parameters
 - Creating DHCP Profiles (SRC CLI)
 - Classifying DHCP Subscribers (C-Web Interface)
 - DHCP Options Supported on the SAE

DHCP Classification Conditions

DHCP classification conditions define match criteria that are used to find the DHCP profile. Use the fields in this section to define DHCP classification conditions.

authVirtualRouterName

- Name of JUNOS virtual router that is set by an authorization plug-in through the authorization response.
- Value—Name of the virtual router in the format `vrname@hostname`

dhcp

- DHCP options. See DHCP Options Supported on the SAE .

dhcpProfileDN

- Search base for DHCP profiles. The DN can be used in target expressions.
- Value—DN of DHCP profile

interfaceName

- Name of the interface where the DHCP discover message was received.
- Value—Name of the interface in your router CLI syntax
- Example—`interfaceName = fastEthernet6/0`

ifAlias

- Description of the interface where the DHCP discover request was received.
- Value—Interface description that is configured on the router. For JUNOS routers, it is the description configured with the **interface description** command
- Example—`ifAlias = " dhcp-subscriber12"`

ifDesc

- Alternate name for the interface where the DHCP discover request was received. This is a system-generated name that is used by SNMP.
- Value
 - On a JUNOSe router, the format of the description is:
 `ip<slot>/<port>.<subinterface>`
 - On the JUNOS routing platform, ifDesc is the same as interfaceName.

macAddress

- MAC address of the DHCP client that appears in DHCP request.
- Value—Valid MAC address
- Example—macAddress = “ 00:11:22:33:44:55”

nasPortId

- Port identifier of an interface.
- Value—Includes interface name and additional layer 2 information
- Example—nasPortId = “ fastEthernet 3/1 ” (There is a space between fastEthernet and slot number 3/1 in the nasPortId.)

poolName

- IP address pool name that is set by an authorization plug-in through the authorization response.
- Value—Name of an address pool configured on the JUNOSe router

virtualRouterName

- Name of the virtual router.
- Value—Name of the virtual router in the format `vrname@hostname`

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