

Configuring Protocol Conditions

The procedure in this sections shows how to configure general protocol conditions.

- If your condition includes port numbers, use the procedure in Configuring Protocol Conditions with Ports.
- If your condition consists of a protocol that is assigned with a parameter value, use the procedure in Configuring Protocol Conditions with Parameters.

Use the following configuration statements to add general protocol conditions to a classify-traffic condition:

```
policies group name list name rule name traffic-condition name protocol-condition
{
    protocol protocol ;
    protocol-operation protocol-operation ;
    ip-flags ip-flags ;
    ip-flags-mask ip-flags-mask ;
    fragment-offset fragment-offset ;
    packet-length packet-length ;
}
```

To add general protocol conditions to a classify-traffic condition:

1. From configuration mode, enter the general protocol condition configuration.
For example:

```
user@host# edit policies group dhcp list in rule forward-dhcp traffic-condition  
client-dhcp protocol-condition
```

2. Configure the protocol matched by this classify-traffic condition.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp  
protocol-condition]  
user@host# set protocol protocol
```

3. Configure the policy to match packets with the protocol that is either equal or not equal to the specified protocol.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp  
protocol-condition]  
user@host# set protocol-operation protocol-operation
```

4. (Optional) Configure the value of the IP flags field in the IP header.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp  
protocol-condition]  
user@host# set ip-flags ip-flags
```

5. (Optional) Configure the mask that is associated with the IP flag.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp  
protocol-condition]  
user@host# set ip-flags-mask ip-flags-mask
```

6. (Optional) Configure the value of the fragment offset field.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp
protocol-condition]
user@host# set fragment-offset fragment-offset
```

7. (Optional) Configure the packet length on which to match. The length refers only to the IP packet, including the packet header, and does not include any layer 2 encapsulation overhead.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition client-dhcp
protocol-condition]
user@host# set packet-length packet-length
```

8. (Optional) Verify your protocol condition configuration.

```
[edit policies group dhcp list in rule forward-dhcp traffic-condition
client-dhcp protocol-condition]
user@host# show
protocol 0;
protocol-operation 1;
ip-flags 0;
ip-flags-mask 0;
fragment-offset any;
```

- Related Topics**
- Before You Configure Classify-Traffic Conditions
 - Configuring Classify-Traffic Conditions