

## Configuring Application Protocol Conditions (SRC CLI)

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You can define application protocols for the stateful firewall and NAT services to use in match condition rules. An application protocol defines application parameters by using information from network layer 3 and above. Examples of such applications are FTP and H.323.

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

```
policies group name list name rule name traffic-condition name
  application-protocol-condition name {
    protocol protocol ;
    application-protocol application-protocol ;
    idle-timeout idle-timeout ;
    dce-rpc-uuid dce-rpc-uuid ;
    rpc-program-number rpc-program-number ;
    snmp-command snmp-command ;
    ttl-threshold ttl-threshold ;
  }
policies group name list name rule name traffic-condition name
  application-protocol-condition name proto-attr {
    icmp-type icmp-type ;
    icmp-code icmp-code ;
  }
policies group name list name rule name traffic-condition name
  application-protocol-condition name proto-attr destination-port port {
    from-port from-port ;
  }
policies group name list name rule name traffic-condition name
  application-protocol-condition name proto-attr source-port port {
    from-port from-port ;
  }
```

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

1. From configuration mode, enter the application protocol configuration. In this procedure, *apc* is the name of the application protocol condition. For example:

```
user@host# edit policies group junos list staticnat rule nat traffic-condition ctc
application-protocol-condition apc
```

2. (Optional) Configure the network protocol to match.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc]
user@host# set protocol protocol
```

3. (Optional) Configure the application protocol to match.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc]
user@host# set application-protocol application-protocol
```

4. (Optional) Configure the length of time the application is inactive before it times out.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# set idle-timeout idle-timeout
```

5. (Optional) For the DCE RPC application protocol, configure the universal unique identifier (UUID).

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# set dce-rpc-uuid dce-rpc-uuid
```

6. (Optional) For the remote procedure call (RPC) application protocol, configure an RPC program number.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# set rpc-program-number rpc-program-number
```

7. (Optional) Configure the SNMP command for packet matching.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# set snmp-command snmp-command
```

8. (Optional) For the traceroute application protocol, configure the traceroute time-to-live (TTL) threshold value. This value sets the acceptable level of network penetration for trace routing.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# set ttl-threshold ttl-threshold
```

9. (Optional) Enter configuration mode for the protocol attribute.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc]  
user@host# edit proto-attr
```

10. (Optional) For the ICMP protocol, configure the ICMP packet type.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc proto-attr]  
user@host# set icmp-type icmp-type
```

11. (Optional) For the ICMP protocol, configure the ICMP code.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc  
application-protocol-condition apc proto-attr]  
user@host# set icmp-code icmp-code
```

12. (Optional) Enter the destination port configuration.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr]
user@host# edit destination-port port
```

13. (Optional) Configure the TCP or UDP destination port.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr destination-port port]
user@host# set from-port from-port
```

14. (Optional) Enter the source port configuration.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr destination-port port]
user@host# up
```

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr]
user@host# edit source-port port
```

15. (Optional) Configure the TCP or UDP source port.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr source-port port]
user@host# set from-port from-port
```

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr source-port port]
user@host# up
```

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc proto-attr]
user@host# up
```

16. (Optional) Verify the application protocol condition configuration.

```
[edit policies group junos list staticnat rule nat traffic-condition ctc
 application-protocol-condition apc]
user@host# show
protocol ip;
application-protocol dce_rpc;
idle-timeout 900;
dce-rpc-uuid dce_rpc;
snmp-command get;
ttl-threshold 25;
proto-attr {
  icmp-type icmpType;
  icmp-code icmpCode;
  destination-port {
    port {
      from-port 11..655;
    }
  }
}
```

```
    }  
    source-port {  
        port {  
            from-port service_port;  
        }  
    }  
}
```

- Related Topics**
- Using Map Expressions in Application Protocol Conditions
  - Before You Configure Classify-Traffic Conditions
  - Configuring Classify-Traffic Conditions
  - Configuring Application Protocol Conditions (C-Web Interface)