



BGP Flowspec Commands

This module provides command line interface (CLI) commands for configuring BGP Flowspec on the Cisco ASR 9000 Series Router.

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class-map type traffic (BGP-flowspec)

To define a traffic class and the associated rules that match packets to the class, use the **class-map type traffic** command in Global configuration mode. To remove an existing class map from the router, use the **no** form of this command.

class-map type traffic match-all *class-map-name*

Syntax Description	match-all	Specifies a match on all of the match criteria.
	<i>class-map-name</i>	Name of the class for the class map.
Command Default	None	
Command Modes	Global configuration	
Command History	Release	Modification
	Release 5.2.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.	

This example shows how to specify class305 as the name of a class and defines a class map for this class.

```
RP/0/RSP0/CPU0:router# config
RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all class305
RP/0/RSP0/CPU0:router(config-cmap)# match destination-address ipv4 59.2.1.2 255.255.255.0
```

class type traffic

To associate a previously configured traffic class with the policy map, and to enter the configuration mode for the specified system class, use the **class type traffic** command in the policy map configuration mode.

class type traffic *class-name*

Syntax Description	<i>class-name</i> Name of the class for the class map. The class name is used for the class map and to configure policy for the class in the policy map.				
Command Default	None				
Command Modes	Policy map configuration mode				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>Release 5.2.0</td><td>This command was introduced.</td></tr></table>	Release	Modification	Release 5.2.0	This command was introduced.
Release	Modification				
Release 5.2.0	This command was introduced.				
Usage Guidelines	<p>To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.</p> <p>This example shows how to associate a class map with the policy map:</p> <pre>RP/0/RSP0/CPU0:router# config RP/0/RSP0/CPU0:router(config)# policy-map type pbr p1 RP/0/RSP0/CPU0:router(config-pmap)# class type traffic c1 RP/0/RSP0/CPU0:router(config-pmap-c)# set dscp 34</pre>				

destination prefix

To filter flowspec based on destination in flowspec network-layer reachability information (NLRI) using RPL, and apply on neighbor attach point, use the **destination prefix** command in route-policy configuration mode.

destination prefix {*prefix-set-name**inline-prefix-set**parameter*}

Syntax Description

prefix-set-name Name of a prefix set.

inline-prefix-set Inline prefix set. The inline prefix set must be enclosed in parentheses.

parameter Parameter name. The parameter name must be preceded with a "\$."

parameter

Command Default

No default behavior or values

Command Modes

Route-policy configuration

Command History

Release	Modification
Release 5.3.2	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **destination prefix** command as a conditional expression within an **if** statement.



Note

- For a list of all conditional expressions available within an **if** statement, see the **if** command.
- This command takes either a named prefix set or an inline prefix set value as an argument. The condition returns true if the destination entry matches any entry in the prefix set or inline prefix set. An attempt to match a destination using a prefix set that is defined but contains no elements returns false.
- The routing policy language (RPL) provides the ability to test destinations for a match to a list of prefix match specifications using the **in** operator. The **destination prefix** command is protocol-independent.
- In Border Gateway Protocol (BGP), the destination of a route is also known as its network-layer reachability information (NLRI). It comprises a prefix value and a mask length.
- RPL supports both 32-bit IPv4 prefixes, specified in dotted-decimal format, and 128-bit IPv6 prefixes, specified in colon-separated hexadecimal format.

Task ID

Task ID	Operations
route-policy	read, write

Examples

In this example, prefix filtering is done based on flowspec destination address:

```
RP/0/RSP0/CPU0:router(config)# route-policy policy-A
RP/0/RSP0/CPU0:router(config-rpl)# If destination-prefix in pfx then

RP/0/RSP0/CPU0:router(config-rpl-if)# Set next-hop 10.0.0.1
RP/0/RSP0/CPU0:router(config-rpl-if)# Endif
RP/0/RSP0/CPU0:router(config-rpl)# End-policy
```

In this example, a route policy and its where it is attached is shown:

```
prefix-set ipv4_flow2
150.1.1.0/24,
150.2.1.0/24
end-set
!

route-policy ipv4_dest_pass
if destination-prefix in ipv4_flow2 then
pass
else
drop
endif
end-policy
!

router bgp 100
bgp router-id 1.1.1.1
address-family ipv4 unicast
!
address-family ipv6 unicast
!
address-family ipv4 flowspec
!
address-family ipv6 flowspec
!
neighbor 33.1.1.2
remote-as 200
address-family ipv4 unicast
route-policy pass in
route-policy pass out
!
address-family ipv4 flowspec
route-policy ipv4_dest_pass in
!
!
```

drop (BGP-flowspec)

To configure a traffic class to discard packets belonging to a specific class, use the **drop** command in policy-map class configuration mode. To disable the packet discarding action in a traffic class, use the **no** form of this command.

drop
no drop

Syntax Description	This command has no keywords or arguments.
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Command Default	Disabled
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Command Modes	Policy-map class configuration (config-pmap-c)
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Command History	Release	Modification
	Release 5.2.0	This command was introduced.

Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
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Examples	This example shows how to discard packets:
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```
RP/0/RSP0/CPU0:router#config
RP/0/RSP0/CPU0:router(config)# policy -map type pbr match_dest_110.1.1.x_drop
RP/0/RSP0/CPU0:router(config-pmap)# class type traffic match_dest_110.1.1.x
RP/0/RSP0/CPU0:router(config-pmap-c)# drop
```

flowspec

To enter BGP flowspec configuration mode, use the **flowspec** command in Global configuration mode.

flowspec

Syntax Description	This command has no keywords or arguments.
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Command Default	No default behavior or values
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Command Modes	Global configuration
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Command History	Release	Modification
	Release 5.2.0	This command was introduced.

Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
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Examples	This example show how to enter flowspec configuration mode.
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```
RP/0/RSP0/CPU0:router# configure
RP/0/RSP0/CPU0:router(config)# flowspec
RP/0/RSP0/CPU0:router(config-flowspec)#
```

flowspec disable

To disable flowspec configuration on all interfaces, use the **flowspec disable** command in interface configuration mode.

ipv4 | ipv6
flowspec disable

Syntax Description	ipv4	Specifies IPv4 interfaces.
	ipv6	Specifies IPv6 interfaces.
Command Default	No default behavior or values	
Command Modes	Interface configuration	
Command History	Release	Modification
	Release 5.2.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.	
Examples	This example shows how to disable flowspec configuration on all interfaces. RP/0/RSP0/CPU0:router# configure RP/0/RSP0/CPU0:router(config)# interface GigabitEthernet 0/2/0/2 RP/0/RSP0/CPU0:router(config-if)# ipv4 flowspec disable	

local-install

To apply local installation of flowspec policy on all interfaces, use the **local-install** command in appropriate command mode.

local-install interface-all

Syntax Description	interface-all Installs flowspec policy on all interfaces.
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Command Default	No default behavior or values
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Command Modes	IPv4 address family configuration IPv6 address family configuration VRF IPv4 address family configuration VRF IPv6 address family configuration
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Command History	<table border="1"><tr><th>Release</th><th>Modification</th></tr><tr><td>Release 5.2.0</td><td>This command was introduced.</td></tr></table>	Release	Modification	Release 5.2.0	This command was introduced.
Release	Modification				
Release 5.2.0	This command was introduced.				

Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
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Examples	This example show how to install flowspec policy on all interfaces under flowspec subaddress family configuration mode.
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```
RP/0/RSP0/CPU0:router# configure
RP/0/RSP0/CPU0:router(config)# flowspec
RP/0/RSP0/CPU0:router(config-flowspec)# address-family ipv4
RP/0/RSP0/CPU0:router(config-flowspec-af)# local-install interface-all
```

match destination-address

To identify a specific destination IP address explicitly as a match criterion in a class map, use the **match destination-address** command in the class map configuration mode. To remove a specific destination IP address from the matching criteria for a class map, use the **no** form of this command.

match destination-address {**ipv4** | **ipv6**} *address*
no match destination-address {**ipv4** | **ipv6**} *address*

Syntax Description	ipv4	Indicates an IPv4 address.
	ipv6	Indicates an IPv6 address.
	<i>address</i>	Specifies a destination address.
Command Default	No default behavior or values	
Command Modes	Class map configuration	
Command History	Release	Modification
	Release 5.2.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.	
Examples	This example shows how to match a destination ipv4 address:	

```
RP/0/RSP0/CPU0:router(config)#class-map type traffic match-all
RP/0/RSP0/CPU0:router(config-cmap)# match destination-address ipv4 59.2.1.2 255.255.255.0
```

match destination-port

To identify a specific destination port as the match criterion for a class map, use the **match destination-port** command in class map configuration mode. To remove destination port-based match criteria from a class map, use the **no** form of this command.

```
match destination-port {destination-port-value }  
no match destination-port {destination-port-value }
```

Syntax Description	<i>destination-port-value</i> A port Number. Range is from 0 to 65535.	
Command Default	No default behavior or values	
Command Modes	Class map configuration	
Command History	Release	Modification
	Release 5.2.0	The <i>min-value</i> and <i>max-value</i> variables were added.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.	
Examples	This example shows how to match a destination port:	

match fragment-type

To identify a fragment-type as the match criterion for a class map, use the **match fragment-type** command in class map configuration mode. To remove fragment-type match criteria from a class map, use the **no** form of this command.

match fragment type [dont-fragment] [first-fragment] [is-fragment] [last-fragment]
no match fragment type [dont-fragment] [first-fragment] [is-fragment] [last-fragment]

Syntax Description

dont-fragment	Matches dont-fragment bit.
first-fragment	Matches first-fragment bit.
is-fragment	Matches is-fragment bit.
last-fragment	Matches last-fragment bit.

Command Default

No default behavior or values

Command Modes

Class map configuration

Command History

Release	Modification
Release 5.2.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Examples

This example shows how to match a fragment-type:

```
RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all
RP/0/RSP0/CPU0:router(config-cmap)# match fragment-type is-fragment
```

match icmp code

To identify an ICMP (Internet Control Message Protocol) code as the match criterion for a class map, use the **match icmp type** command in the class map configuration mode. To remove the icmp code-based match criteria from a class map, use the **no** form of this command.

```
match {ipv4 | ipv6} icmp-code {value}  
no match {ipv4 | ipv6} icmp-code {value}
```

Syntax Description

ipv4 Indicates an IPv4 ICMP code.

ipv6 Indicates an IPv6 ICMP code.

Command Default

No default behavior or values

Command Modes

Class map configuration

Command History

Release	Modification
Release 5.2.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Examples

This example shows how to match an IPv4 ICMP code:

```
RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all  
RP/0/RSP0/CPU0:router(config-cmap)# match ipv4 icmp-code 1
```

match icmp type

To identify an ICMP (Internet Control Message Protocol) type as the match criterion for a class map, use the **match icmp type** command in class map configuration mode. To remove the icmp type-based match criteria from a class map, use the **no** form of this command.

```
match {ipv4 | ipv6} icmp-type {value}
no match {ipv4 | ipv6} icmp-type {value}
```

Syntax Description

ipv4 Indicates an IPv4 ICMP type.

ipv6 Indicates an IPv6 ICMP type.

Command Default

No default behavior or values

Command Modes

Class map configuration

Command History

Release	Modification
Release 5.2.0	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Examples

This example shows how to match an IPv4 ICMP type:

```
RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all
RP/0/RSP0/CPU0:router(config-cmap)# match ipv4 icmp-type 1
```

match packet length

To specify the packet length in the IP header as a match criterion in a class map, use the **match packet length** command in class-map configuration mode. To remove a previously specified packet length as a match criterion, use the **no** form of this command.

```
match packet length {value }  
no match packet length {value }
```

Syntax Description	<i>value</i> IP packet length. Range is from 0 to 65535.	
Command Default	No default behavior or values.	
Command Modes	Class map configuration	
Command History	Release	Modification
	Release 5.2.0	This command was introduced.
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.	
Examples	This example shows how to match a packet length value:	

match source-address

To identify a specific source MAC address or an IP address explicitly as a match criterion in a class map, use the **match source-address** command in the class map configuration mode. To remove a specific source MAC address or an IP address from the matching criteria for a class map, use the **no** form of this command.

```
match source-address { mac | ipv4 | ipv6 } address
no match source-address { mac | ipv4 | ipv6 } address
```

Syntax Description

mac	Indicates a MAC address.
ipv4	Indicates an IPv4 address.
ipv6	Indicates an IPv6 address.
<i>address</i>	Specifies a source address.

Command Default

No default behavior or values

Command Modes

Class map configuration

Command History

Release	Modification
Release 3.7.2	This command was introduced for MAC addresses.
Release 5.2.0	Support for IP addresses was added.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The **match source-address** command specifies a source address that is used as the match criterion against which packets are checked to determine if they belong to the class specified by the class map.

To use the **match source-address** command, you must first enter the **class-map** command to specify the name of the class whose match criteria you want to establish. If you specify more than one **match source-address** command in a class map, only the last command entered applies.

This command is supported on an input service policy only.

Layer 2 match criteria on a Layer 3 target, or Layer 3 match criteria on a Layer 2 target is not allowed.

The **match source-address** command is supported on egress Layer 2 interfaces, Layer 2 subinterfaces, and Layer 3 physical interfaces. Layer 3 physical interfaces are supported, because it is possible for a Layer 3 interface to have underlying Layer 2 subinterfaces.

The **match source-address** command is allowed on a policy map that is attached to an Ethernet interface. The command is invalid on a policy that is attached to a Packet-over-SONET/SDH (POS) interface or a routed VLAN subinterface.

The match 48-bit MAC address is specified in xxxx.xxxx.xxxx format on L2VPN PE interfaces.

Examples

This example shows how to match a source MAC address:

```
RP/0/RSP0/CPU0:router(config)# class-map match-any A
RP/0/RSP0/CPU0:router(config-cmap)# match source-address mac 0003.f0d0.2356
```

This example shows how to match a source IPv4 address:

```
RP/0/RSP0/CPU0:router(config)#class-map type traffic match-all A
RP/0/RSP0/CPU0:router(config-cmap)# match source-address ipv4 59.2.1.2 255.255.255.0
```

match source-port

To identify a specific source port as the match criterion for a class map, use the **match source port** command in class map configuration mode. To remove source port-based match criteria from a class map, use the **no** form of this command.

```
match source-port {source-port-value }  
no match source-port {source-port-value }
```

Syntax Description	<i>source-port-value</i> A port Number. Range is from 0 to 65535.				
Command Default	No default behavior or values				
Command Modes	Class map configuration				
Command History	<table><tr><th>Release</th><th>Modification</th></tr><tr><td>Release 5.2.0</td><td>This command was introduced.</td></tr></table>	Release	Modification	Release 5.2.0	This command was introduced.
Release	Modification				
Release 5.2.0	This command was introduced.				
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.				
Examples	<p>This example shows how to match a source port:</p> <pre>RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all RP/0/RSP0/CPU0:router(config-cmap)# match source-port 1</pre>				

match tcp flag

To identify a TCP flag as the match criterion for a class map, use the **match tcp flag** command in class map configuration mode. To remove the tcp flag based match criteria from a class map, use the **no** form of this command.

match tcp-flag *value* **any**
no match tcp-flag *value***any**

Syntax Description	<i>value</i> TCP flag value. Range is from 1 to 4095 (hexadecimal).
	any Specifies a match based on any bit in the TCP flag.

Command Default	No default behavior or values
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Command Modes	Class map configuration
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Command History	Release	Modification
	Release 5.2.0	This command was introduced.

Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.
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Examples	This example shows how to match a TCP flag:
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```
RP/0/RSP0/CPU0:router(config)# class-map type traffic match-all  
RP/0/RSP0/CPU0:router(config-cmap)# match tcp flag 2 any
```

redirect (BGP Flowspec)

To route the policy based routing (PBR) traffic to distributed denial-of-service scrubber (DDoS), use the **redirect** command in policy-map configuration mode. To return the PBR traffic to normal route, use the **no** form of this command.

redirect {**default-route** | **nexthop** } {*IPv4-address* *IPv6-address* | **route-target** {*AS-number: index* *IPv4-address: index* } | **vrf** *vrf-name* }
no redirect [**default-route** | **nexthop**]

Syntax Description

default-route	Forwards to the default nexthop for this packet
nexthop	Forwards to specified nexthop
<i>IPv4 address</i>	Input IPv4 Nexthop address
<i>IPv6 address</i>	Input IPv6 Nexthop address
route-target	Enter specific route-target string
<i>AS-number: index</i>	Enter 2-byte or 4-byte autonomous system number (AS) and <i>index</i> in hexa decimal or decimal format.
<i>IPv4-address: index</i>	Enter IPv4 address and <i>index</i> in hexa decimal or decimal format.
vrf <i>vrf-name</i>	Enter specific VRF name for the nexthop.

Command Default

None

Command Modes

Policy-map configuration

Command History

Release	Modification
Release 5.2.0	This command was introduced.

Usage Guidelines

You must be in a user group associated with a task group that includes the proper task IDs. The command reference guides include the task IDs required for each command. If you suspect user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The example shows how to redirect PBR traffic to virtual routing and forwarding (VRF) instance:

```
RP/0/RSP0/CPU0:router# configure
RP/0/RSP0/CPU0:router(config)# policy-map type pbr test1
RP/0/RSP0/CPU0:router(config-pmap)# class type traffic test1
RP/0/RSP0/CPU0:router(config-pmap-c)# redirect nexthop vrf vrf1
```

service-policy

To configure service policy on a flowspec subaddress family interface, use the **service-policy** command in appropriate command mode.

service-policy **type** **pbr** *policy-name*

Syntax Description	type	Specifies type of the service policy.
	pbr	Specifies a policy-based routing (PBR) policy map.
	<i>policy-name</i>	Name of the policy map.

Command Default No default behavior or values

Command Modes

- IPv4 address family configuration
- IPv6 address family configuration
- VRF IPv4 address family configuration
- VRF IPv6 address family configuration

Command History	Release	Modification
	Release 5.2.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Examples

This example shows how to setup service policy.

```
RP/0/RSP0/CPU0:router# configure
RP/0/RSP0/CPU0:router(config)# flowspec
RP/0/RSP0/CPU0:router(config-flowspec)# address-family ipv4
RP/0/RSP0/CPU0:router(config-flowspec-af)# service-policy type pbr policy100
```

show flowspec

To display flowspec policy information for an interface, use the **show flowspec** command in EXEC mode.

show flowspec {**afi-all** | **client** | **ipv4** | **ipv6** | **summary** | **vrf**}

Syntax Description	afi-all	Displays flowspec policy applied on IPv4 and IPv6 interfaces.
	client	Displays flowspec client interfaces.
	ipv4	Displays flowspec policy applied on IPv4 interfaces.
	ipv6	Displays flowspec policy applied on IPv6 interfaces.
	summary	Displays flowspec policy summary on all interfaces.
	vrf	Displays flowspec policy applied on VRF interfaces.

Command Default No default behavior or values

Command Modes EXEC

Command History	Release	Modification
	Release 5.2.0	This command was introduced.

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Examples This example shows sample output from **show flowspec** command when **vrf**, **ipv4** and **summary** keywords are used.

```
RP/0/RSP0/CPU0:router# show flowspec vrf vrf1 ipv4 summary
Mon May 19 12:59:41.226 PDT
Flowspec VRF+AFI table summary:
VRF: vrf1
  AFI: IPv4
    Total Flows:          3
    Total Service Policies: 1
```

source prefix

To filter flowspec based on source in flowspec network-layer reachability information (NLRI) using RPL, and apply on neighbor attach point, use the **source prefix** command in route-policy configuration mode.

source prefix {*prefix-set-name**inline-prefix-set**parameter*}

Syntax Description

<i>prefix-set-name</i>	Name of a prefix set.
<i>inline-prefix-set</i>	Inline prefix set. The inline prefix set must be enclosed in parentheses.
<i>parameter</i>	Parameter name. The parameter name must be preceded with a "\$."

Command Default

No default behavior or values

Command Modes

Route-policy configuration

Command History

Release	Modification
Release 5.3.2	This command was introduced.

Usage Guidelines

To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

Use the **source prefix** command as a conditional expression within an **if** statement. A comparison that references a prefix set with zero elements in it returns false.



Note

- For a list of all conditional expressions available within an **if** statement, see the **if** command.
- The source of a BGP route is the IP peering address of the neighboring router from which the route was received.
- The prefix set can contain both IPv4 and IPv6 prefix specifications.

Task ID

Task ID	Operations
route-policy	read, write

Examples

In this example, prefix filtering is done based on flowspec source address:

```
RP/0/RSP0/CPU0:router(config)# route-policy policy-A
RP/0/RSP0/CPU0:router(config-rpl)# If source-prefix in my-prefix-set then
pass
```

Related Commands

Command	Description
prefix-set	Enters a prefix set configuration mode and defines a prefix set.