

# show ip mds forwarding through show monitor event-trace merged-list

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## show ip traffic

To display the global or system-wide IP traffic statistics for one or more interfaces, use the **show ip traffic** command in user EXEC or privileged EXEC mode.

show ip traffic [interface type number]

**Command Default** Using the **show ip traffic** command with no keywords or arguments displays the global or system-wide IP traffic statistics for all interfaces.

### Command Modes User EXEC (>) Privileged EXEC (#)

<b>Command History</b>	Release	Modification
	10.0	This command was introduced.
	12.2	The output was enhanced to display the number of keepalive, open, update, route-refresh request, and notification messages received and sent by a Border Gateway Protocol (BGP) routing process.
	12.2(25)8	The command output was modified.
	12.2(28)SB	This command was integrated into Cisco IOS Release 12.2(28)SB and implemented on the Cisco 10000 series routers.
	12.2(33)SRA	This command was integrated into Cisco IOS Release 12.2(33)SRA.
	12.2(33)SXH	This command was integrated into Cisco IOS Release 12.2(33)SXH.
	12.4(20)T	This command was integrated into Cisco IOS Release 12.4(20)T.
	12.2(33)SXH5	This command was modified. The output was changed to display the ARP (proxy) reply counter as the number of ARP replies for real proxies only.
	Cisco IOS XE Release 3.1S	This command was integrated into Cisco IOS XE Release 3.1S. This command was modified to include the optional <b>interface</b> keyword and associated <i>type</i> and <i>number</i> arguments. These modifications were made to provide support for the IPv4 MIBs as described in RFC 4293: <i>Management Information Base for the Internet Protocol (IP)</i> .

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	Release	Modification	
	15.1(4)M	This command was modified. The optional <b>interface</b> keyword and associated <i>type</i> and <i>number</i> arguments were added. These modifications were made to provide support for the IPv4 MIBs as described in RFC 4293, <i>Management Information Base for the Internet Protocol (IP)</i> .	
Usage Guidelines		<b>raffic</b> command with the optional <b>interface</b> keyword displays the ipIfStatsTable counters rface if IPv4 addressing is enabled.	
Examples	The following is sample output from the show ip traffic command:		
	<pre>0 format 0 unknow 0 securi 0pts: 0 end, 0 0 timest 0 other Frags: 0 reasses 0 fragme Bcast: 27 receiv Mcast: 0 receiv Sent: 0 genera Drop: 0 encaps 0 no rou Drop: 0 packet ICMP statistics: Rcvd: 0 format 0 irdp so 0 tirdp so 8GP statistics: Rcvd: 0 total, 0 keepali Sent: 0 total Sent: 0 total Sent:</pre>	<pre>, 27 local destination errors, 0 checksum errors, 0 bad hop count n protocol, 0 not a gateway ty failures, 0 bad options, 0 with options nop, 0 basic security, 0 loces source route amp, 0 extended security, 0 record route ID, 0 strict source route, 0 alert, 0 cipso, 0 ump mbled, 0 timeouts, 0 couldn't reassemble nted, 0 couldn't fragment ved, 0 sent ed, 0 sent ed, 0 sent ed, 0 sent ed, 0 nuresolved, 0 no adjacency te, 0 unicast RPF, 0 forced drop s with source IP address zero errors, 0 checksum errors, 0 redirects, 0 unreachable echo reply, 0 mask requests, 0 mask replies, 0 quench er, 0 timestamp, 0 info request, 0 other licitations, 0 irdp advertisements ceeded, 0 timestamp replies, 0 info replies ts, 0 unreachable, 0 echo, 0 echo reply quests, 0 mask replies, 0 quench, 0 timestamp ply, 0 time exceeded, 0 parameter problem licitations, 0 irdp advertisements 0 opens, 0 notifications, 0 updates ves, 0 route-refresh, 0 unrecognized 0 opens, 0 notifications, 0 updates ves, 0 route-refresh tics: 0 checksum errors, 0 no port Sent/Received hecksum errors, 0 format errors (0 non-rp, 0 non-sm-group), Register Stops: 0/0, Hellos: 0/0 0/0 Sent/Received mat errors: 0/0, Checksum errors: 0/0 /0, Asserts: 0/0, Grafts: 0/0 /0, Host Reports: 0/0, Host Leaves: 0/0</pre>	

Sent: 0 total, 0 forwarded broadcasts OSPF statistics: Rcvd: 0 total, 0 checksum errors 0 hello, 0 database desc, 0 link state req 0 link state updates, 0 link state acks Sent: 0 total 0 hello, 0 database desc, 0 link state req 0 link state updates, 0 link state acks Probe statistics: Rcvd: 0 address requests, 0 address replies 0 proxy name requests, 0 where-is requests, 0 other Sent: 0 address requests, 0 address replies (0 proxy) 0 proxy name replies, 0 where-is replies ARP statistics: Rcvd: 1477 requests, 8841 replies, 396 reverse, 0 other Sent: 1 requests, 20 replies (0 proxy), 0 reverse Drop due to input queue full: 0 The following is sample output from the **show ip traffic** command for Ethernet interface 0/0:

```
Router# show ip traffic interface ethernet 0/0
Ethernet0/0 IP-IF statistics :
  Rcvd: 99 total, 9900 total_bytes
         0 format errors, 0 hop count exceeded
         0 bad header, 0 no route
         0 bad destination, 0 not a router
         0 no protocol, 0 truncated
         0 forwarded
         0 fragments, 0 total reassembled
         0 reassembly timeouts, 0 reassembly failures
         0 discards, 99 delivers
  Sent: 99 total, 9900 total_bytes 0 discards
         99 generated, 0 forwarded
         0 fragmented into, 0 fragments, 0 failed
  Mcast: 0 received, 0 received bytes
         0 sent, 0 sent bytes
  Bcast: 0 received, 0 sent
```

#### Examples

The following is sample output from the **show ip traffic** command when used on a Cisco 10000 series router:

Router# <b>show ip traffic</b>						
IP statistics:						
Rcvd: 27 total, 27 local destination						
0 format errors, 0 checksum errors, 0 bad hop count 0 unknown protocol, 0 not a gateway						
0 security failures, 0 bad options, 0 with options						
Opts: 0 end, 0 nop, 0 basic security, 0 loose source route						
0 timestamp, 0 extended security, 0 record route						
0 stream ID, 0 strict source route, 0 alert, 0 cipso, 0 ump	S					
0 other						
Frags: 0 reassembled, 0 timeouts, 0 couldn't reassemble						
0 fragmented, 0 couldn't fragment						
Bcast: 27 received, 0 sent						
Mcast: 0 received, 0 sent						
Sent: 0 generated, 0 forwarded						
Drop: 0 encapsulation failed, 0 unresolved, 0 no adjacency						
0 no route, 0 unicast RPF, 0 forced drop						
0 options denied, 0 source IP address zero						
The table holes, describes the significant fields shown in the disular.						

The table below describes the significant fields shown in the display.

Table 1: show ip traffic Field Descriptions

Field	Description
format errors	Indicates a gross error in the packet format, such as an impossible Internet header length.

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Field	Description
bad hop count	Occurs when a packet is discarded because its time-to-live (TTL) field was decremented to zero.
encapsulation failed	Usually indicates that the router had no ARP request entry and therefore did not send a datagram.
no route	Counted when the Cisco IOS software discards a datagram that it did not know how to route.

#### **Related Commands**

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Command	Description	
-	Clears the global or system-wide IP traffic statistics for one or more interfaces.	

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