

## show ip bgp

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**Syntax** To display information about networks for all address families or for a specific address family other than the L2VPN address family and the route-target address family:

```
show ip bgp [ ipv4 unicast | ipv4 multicast | vpnv4 all | vpnv4 vrf vrfName ]  
[ network [ networkMask [ longer-prefixes ] ] ] [ fields fieldOptions ] [ filter ]
```

To display information for networks associated with only the L2VPN address family:

```
show ip bgp { l2vpn all | l2vpn vpls vplsName | l2vpn vpws vpwsName }  
[ site-id siteId block-offset blockOffset ] [ fields fieldOptions ] [ filter ]
```

To display information for networks associated with only the route-target address family:

```
show ip bgp route-target signaling rtfPrefix [ longer-prefixes ]  
[ fields fieldOptions ] [ filter ]
```

**Release Information** Command introduced before JUNOS Release 7.1.0.  
**l2vpn** and **all** keywords added in JUNOS Release 7.1.0.  
**vpls** keyword and *vplsName* variable added in JUNOS Release 7.1.0.  
**site-id** keyword and *siteId* variable added in JUNOS Release 7.1.0.  
**block-offset** keyword and *blockOffset* variable added in JUNOS Release 7.1.0.  
**vpws** keyword and *vpwsName* variable added in JUNOS Release 8.1.0.  
**route-target signaling** keywords and *rtMemNlri* variable added in JUNOS Release 8.2.0.  
*rtMemNlri* variable replaced by *rtfPrefix* variable in JUNOS Release 9.1.0.

**Description** Displays filtered information about a specified network, or all networks, in the BGP routing table associated with a specified address family or all address families. Only those fields that you specify are displayed, except that the prefix field is always displayed. Default fields can be set with the **default-fields route** command.

- Options**
- **ipv4 unicast**—Specifies the IPv4 unicast address family and routing table; the default option
  - **ipv4 multicast**—Specifies the IPv4 multicast address family and routing table
  - **vpnv4 all**—Specifies the IPv4 VPN address family and all IPv4 VPN routing and forwarding instances
  - **vpnv4 vrf *vrfName***—Specifies the IPv4 VPN address family and only the IPv4 VPN routing and forwarding instance with the name *vrfName*
  - ***network***—IP address for which the best matching route is displayed; if no network is specified, displays the fields for all networks
  - ***networkMask***—Address mask to be applied to the network address
  - **longer-prefixes**—Displays all routes with a prefix that is equal to or more specific than the specified prefix
  - **l2vpn all**—Specifies all VPLS and VPWS instances in the L2VPN address family

- *l2vpn vpls vplsName*—Specifies the VPLS instance with the name *vplsName*
- *l2vpn vpws vpwsName*—Specifies the VPWS instance with the name *vpwsName*
- *siteId*—Numerical identifier for the site; must be an unsigned 16-bit integer greater than zero that is unique across the VPLS domain
- *blockOffset*—Integer in the range 1–65535 that identifies a block offset for which information is displayed
- *route-target signaling*—Specifies the route-target address family
- *rtfPrefix*—Prefix representing the route-target membership NLRI (RT-MEM-NLRI), in the format *asNumber:extendedCommunity/prefixLength* (for example, 320:320:524/36) where:
  - *asNumber*—AS number for origin of route target information, in the range 1–4294967295
  - *extendedCommunity*—Two-part number in the format *number1:number2* that identifies an extended community of VPNs, in the format *number1:number2*, where:
    - *number1*—Autonomous system (AS) number, in the range 1–4294967295, or an IP address
    - *number2*—Unique integer, in the range 1–4294967295; 32 bits if *number1* is a 16-bit AS number; 16 bits if *number1* is an IP address or a 32-bit AS number
  - *prefixLength*—Number that specifies the length of the route prefix, in the range 32–96
- *fields*—Displays only the specified fields; the display order of the fields is hard-coded and not affected by the order in which you enter them
- *fieldOptions*—Fields to be displayed, in the format *all* | [*afi* | *aggregator* | *as-path* | *atomic-aggregate* | *best* | *clusters* | *communities* | *extended-communities* | *imported* | *intro* | *in-label* | *loc-pref* | *med* | *next-hop* | *next-hop-cost* | *origin* | *originator-id* | *out-label* | *peer* | *peer-type* | *rd* | *safi* | *stale* | *unknown-types* | *weight* ]\*
  - *all*—All available information; not recommended, because this information for each network does not fit on a single line and is difficult to read
  - *afi*—Address family identifier
  - *aggregator*—AS number and IP address of aggregator
  - *as-path*—AS path through which this route has been advertised
  - *atomic-aggregate*—Whether the atomic aggregate attribute is present
  - *best*—Whether this is the best route for the prefix
  - *clusters*—List of cluster IDs through which the route has been advertised
  - *communities*—Community number associated with the route
  - *extended-communities*—Extended community

- imported—Whether the route was imported
- intro—Introductory information about the state of various BGP attributes; this information is displayed only if you specify this keyword
- in-label—MPLS label for the route; the label received with incoming MPLS frames; typically, but not always, this is the label advertised to MP-BGP peers
- loc-pref—Local preference for the route
- med—Multiexit discriminator for the route
- next-hop—IP address of the next router that is used when forwarding a packet to the destination network
- next-hop-cost—Whether the indirect next hop of the route is unreachable, if not, displays IGP cost to the indirect next hop
- origin—Origin of the route
- originator-id—Router ID of the router in the local AS that originated the route
- out-label—MPLS label for the route; the label sent with outgoing MPLS frames; also the label received from MP-BGP peer; typically, but not always, this is the label received from MP-BGP peers
- peer—IP address of BGP peer from which route was learned
- peer-type—Type of BGP peer: internal, external, or confederation
- rd—Route distinguisher
- safi—Subsequent address family identifier
- stale—Route that has gone stale due to peer restart
- unknown-types—Attribute codes for unknown path attributes
- weight—Weight of the route
- \*—Indicates that one or more parameters can be repeated multiple times in a list in the command line
- *filter*—See Filtering show Commands

**Mode** Privileged Exec, User Exec

**Related Topics** ■ *Monitoring BGP-Related Settings for L2VPNs and Monitoring Layer 2 NLRI for VPLS Instances in the JUNOS BGP and MPLS Configuration Guide*

