



BGP Dynamic Neighbors

BGP dynamic neighbor support allows Border Gateway Protocol (BGP) peering to a group of remote neighbors that are defined by a range of IP addresses. Each range can be configured as a subnet IP address. BGP dynamic neighbors are configured using a range of IP addresses and BGP peer groups. After a subnet range is configured for a BGP peer group and a TCP session is initiated for an IP address in the subnet range, a new BGP neighbor is dynamically created as a member of that group. The new BGP neighbor will inherit any configuration for the peer group. The output for three **show** commands has been updated to display information about dynamic neighbors.

Configuration Information

Configuration information is included in the “Configuring BGP Neighbor Session Options” module of the *Cisco IOS IP Routing Protocols Configuration Guide*, at the following URL:

http://www.cisco.com/en/US/docs/ios/iproute/configuration/guide/irp_bgp_neighbor.html

The following sections provide information about this feature:

- BGP Dynamic Neighbors
- Implementing BGP Dynamic Neighbors Using Subnet Ranges
- Implementing BGP Dynamic Neighbors Using Subnet Ranges: Example

For a complete list of features included in the “Configuring BGP Neighbor Session Options” module, see the Feature Information Table located toward the end of the module.

Command Reference Information

Release 12.2SX

The following commands are new or modified for this feature:

- **bgp listen**
- **debug ip bgp range**
- **neighbor remote-as**



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- **show ip bgp neighbors**
- **show ip bgp peer-group**
- **show ip bgp summary**

Detailed information about these commands is included in the *Cisco IOS IP Routing Protocols Command Reference*, Release 12.2SX, at the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sx/cr/sxipr_r/index.htm

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