



BGP Support for BFD

Bidirectional Forwarding Detection (BFD) is a detection protocol that is designed to provide fast forwarding path failure detection times for all media types, encapsulations, topologies, and routing protocols. In addition to fast forwarding path failure detection, BFD provides a consistent failure detection method for network administrators. Because the network administrator can use BFD to detect forwarding path failures at a uniform rate, rather than the variable rates for different routing protocol hello mechanisms, network profiling and planning is easier, and reconvergence time is consistent and predictable. The main benefit of implementing BFD for BGP is a significantly faster reconvergence time.

Configuration Information

Configuration information is included in the “Configuring Advanced BGP Features” module of the *Cisco IOS BGP Configuration Guide*, Release 12.4T, at the following URL:

http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tbgp_c/brbadv.htm

The following sections provide information about this feature:

- BFD for BGP
- Decreasing BGP Convergence Time Using BFD
- Configuring BFD on a BGP Network: Example

For a complete list of features included in the “Configuring Advanced BGP Features” module, see the Feature Information table located toward the end of the module.

Command Reference Information

Release 12.2SR

The following commands are new or modified for this feature:

- **bfd interval**
- **neighbor fall-over bfd**



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- **show bfd neighbors**
- **show ip bgp neighbors**

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

http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sr/cr/sripr_r/index.htm

Release 12.2SX

The following commands are new or modified for this feature:

- **bfd interval**
- **neighbor fall-over bfd**
- **show bfd neighbors**
- **show ip bgp neighbors**

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

Master Commands Lists

Cisco IOS master commands lists provide an alphabetical list of all Cisco IOS commands in a Cisco IOS release.

Cisco IOS new, modified, removed, and replaced commands lists provide an alphabetized list of all new, modified, removed, and replaced commands in a Cisco IOS release.

Release 12.2SR

Cisco IOS Master Commands List, Release 12.2SR, at the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sr/122srmdx/122sridx.htm>

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