



IP Multicast Load Splitting—Equal Cost Multipath (ECMP) Using S, G and Next Hop

The IP Multicast Load Splitting—Equal Cost Multipath (ECMP) Using S, G and Next Hop feature introduces more flexible support for ECMP multicast load splitting by adding support for load splitting based on source and group address and on source, group, and next-hop address. This feature enables multicast traffic from devices that send many streams to groups or that broadcast many channels, such as IPTV servers or MPEG video servers, to be more effectively load split across equal-cost paths. Prior to the introduction of this feature, the Cisco IOS software only supported ECMP multicast load splitting based on source address, which restricted multicast traffic sent by a single source to multiple groups from being load split across equal-cost paths.

Configuration Information

Configuration information is included in the “Load Splitting IP Multicast Traffic over ECMP” module of the *Cisco IOS IP Multicast Configuration Guide*, Release 12.4T, at the following URL:

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

The following sections provide information about this feature:

- ECMP Multicast Load Splitting Based on Source and Group Address Using the Basic S-G-Hash Algorithm
- ECMP Multicast Load Splitting Based on Source, Group, and Next-Hop Address Using the Next-Hop-Based Hash Algorithm

For a complete list of features included in the “Load Splitting IP Multicast Traffic over ECMP” module, see the Feature Information Table located toward the end of the module.

Command Reference Information

Command reference information is included in the *Cisco IOS IP Multicast Command Reference*, Release 12SR, at the following URL:

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



New or Modified Commands

The following commands are new or modified for this feature:

- **ip multicast multipath**
- **show ip rpf**

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