



# Fast-Switched Policy Routing

Currently policy-based routing is process-switched within the software, which means that on most platforms the switching rate was approximately 1000 to 10,000 packets per second. Such rates are not fast enough for many applications. The Fast-Switched Policy Routing feature allows customers to direct certain traffic profiles to take specified paths through the network, enabling source-based routing and leveraging security.

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## Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see [Bug Search Tool](#) and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

## Prerequisites for Fast-Switched Policy Routing

Policy routing must be configured before you configure fast-switched policy routing.

## Information About Fast-Switched Policy Routing

### Fast-Switched Policy Routing

IP policy routing can be fast-switched. Prior to fast-switched policy routing, policy routing could only be process-switched, which meant that on most platforms, the switching rate was approximately 1000 to 10,000 packets per second. Such rates were not fast enough for many applications. With fast-switched policy routing,

users who need policy routing to occur at faster speeds can implement policy routing without slowing down the device.

Fast-switched policy routing supports all **match** commands and most **set** commands, except for the following:

- **set ip default**
- **set interface**

The **set interface** command is supported only over point-to-point links, unless there is a route cache entry that uses the same interface that is specified in the command in the route map.

To configure fast-switched policy routing, use the **ip route-cache policy** interface configuration command.

## Additional References

### Related Documents

| Related Topic                            | Document Title   |
|--|--|
| Cisco IOS commands                       | <a href="#">Cisco IOS Master Command List, All Releases</a>                  |
| IP routing protocol-independent commands | <a href="#">Cisco IOS IP Routing: Protocol-Independent Command Reference</a> |

### Technical Assistance

| Description   | Link  |
|---|---|
| The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password. | <a href="http://www.cisco.com/cisco/web/support/index.html">http://www.cisco.com/cisco/web/support/index.html</a> |

## Feature Information for Fast-Switched Policy Routing

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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**Table 1: Feature Information for Fast-Switched Policy Routing**

| Feature Name                 | Releases | Feature Information   |
|------------------------------|----------|---|
| Fast-Switched Policy Routing |          | Currently policy-based routing is process-switched within the software, which means that on most platforms the switching rate was approximately 1000 to 10,000 packets per second. Such rates are not fast enough for many applications. The Fast-Switched Policy Routing feature allows customers to direct certain traffic profiles to take specified paths through the network, enabling source-based routing and leveraging security. |

