

## Using Policy Rules to Provide Routing Solutions

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The next-interface, next-hop, filter, and forward rules provide routing solutions for traffic matching a classifier. A classifier can have only one action that provides a routing solution.

If you configure two routing solution rules, such as filter and forward, in the same classifier group, the router displays a warning message, and the rule configured last replaces the previous rule.

For IP policy lists, policy rules are available to enable you to make a forwarding decision that includes the next interface and next hop:

- Forward next interface—Causes an interface to forward all packets that satisfy the classification associated with that rule to the next interface specified
- Forward next hop—Causes an interface to forward all packets that satisfy the classification associated with that rule to the next-hop address specified

For example, you can route packets arriving at IP interface ATM 0/0.0 so that they are handled as indicated:

- Packets from source 1.1.1.1 are forwarded out of interface ATM 0/0.1.
- Packets from source 2.2.2.2 are forwarded out of interface ATM 2/1.1.
- All other packets are dropped.

To configure this routing policy, issue the following commands:

```
host1(config)#ip classifier-list clacA ip host 1.1.1.1 any
host1(config)#ip classifier-list clacB ip host 2.2.2.2 any
host1(config)#ip policy-list IpPolicy100
host1(config-policy-list)#classifier-group clacA
host1(config-policy-list-classifier-group)#forward interface atm 0/0.1
host1(config-policy-list-classifier-group)#exit
host1(config-policy-list)#classifier-group clacB
host1(config-policy-list-classifier-group)#forward interface atm 2/1.1
host1(config-policy-list-classifier-group)#exit
host1(config-policy-list)#classifier-group *
host1(config-policy-list-classifier-group)#filter
host1(config-policy-list-classifier-group)#exit
host1(config)#interface atm 0/0.0
host1(config-subif)#ip policy input IpPolicy100 statistics enabled
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