



## PBR Match Track Object

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The PBR Match Track Object feature enables a device to track the stub object during Policy Based Routing (PBR).

- [Finding Feature Information, on page 1](#)
- [Restrictions for PBR Match Track Object, on page 1](#)
- [Information About PBR Match Track Object, on page 2](#)
- [How to Configure PBR Match Track Object, on page 3](#)
- [Verifying PBR Match Track Object, on page 3](#)
- [Configuration Examples for PBR Match Track Object, on page 4](#)
- [Additional References for PBR Match Track Object, on page 4](#)
- [Feature Information for PBR Match Track Object, on page 5](#)

### 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.

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.

### Restrictions for PBR Match Track Object

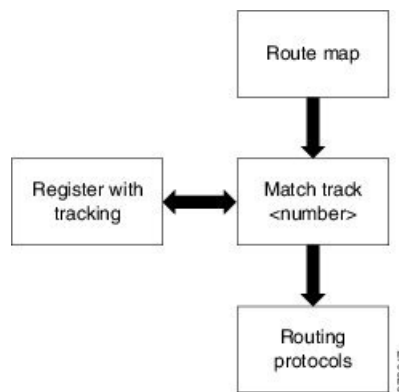
- You can use only one match track variable at a time in a route map sequence.
- You must remove the existing match track object configuration before configuring another match track object. The match track object is unregistered from the tracking component when you remove the match track object number configuration.
- Route-map for PBR, does not take ‘track-object’ into consideration when used under the ‘Match clause’. Match track-object is used for route distribution protocol (for example, BGP) only during the route distribution. Track object cannot be used in route-map, when that route-map is used in PBR.

# Information About PBR Match Track Object

## PBR Match Track Object Overview

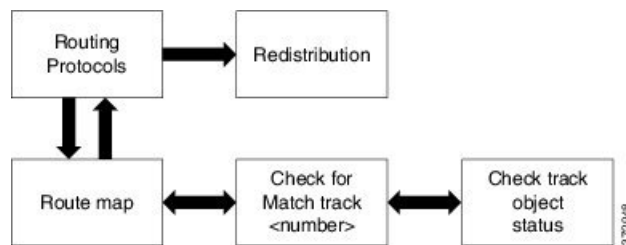
You refer to the stub object that you track as the match track object. The device checks for the existence of the match track object and issues an error message if there is none. Then registration with the tracking component is done to track this object. The device issues an error in case the registration fails.

**Figure 1: Match track object registration**



During redistribution, the routing protocols check the route map for matches with existing routes. This provides an exact route map that corresponds to the specific match criteria. When you apply this route map with the match track object, the device checks the status of the match track object and provides a specific route map.

**Figure 2: Route map on redistribution using routing protocols**



The device uses Border Gateway Protocol (BGP) for route-filtering and distribution. The device uses the existing notification mechanism to notify the routing protocols about the new match clause and also notifies the routing protocols about any change in the match track object status depending upon the Policy-Based Routing (PBR) query on redistribution.

# How to Configure PBR Match Track Object

## Configuring PBR Match Track Object

### SUMMARY STEPS

1. `enable`
2. `configure terminal`
3. `route-map map-tag`
4. `match track track-object-number`
5. `end`

### DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>enable</b> <b>Example:</b> Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
Step 2	<b>configure terminal</b> <b>Example:</b> Device# configure terminal	Enters global configuration mode.
Step 3	<b>route-map map-tag</b> <b>Example:</b> Device(config)# route-map abc	Enables policy routing and enters route-map configuration mode.
Step 4	<b>match track track-object-number</b> <b>Example:</b> Device(config-route-map)# match track 2	Tracks the stub object. Value ranges from 1 to 1000. <b>Note</b> This command is effective only when the track object specified is available on the device.
Step 5	<b>end</b> <b>Example:</b> Device(config-route-map)# end	Returns to privileged EXEC mode.

## Verifying PBR Match Track Object

### SUMMARY STEPS

1. `enable`
2. `show route-map map-name`

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>enable</b> <b>Example:</b> Device> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> <li>• Enter your password if prompted.</li> </ul>
<b>Step 2</b>	<b>show route-map map-name</b> <b>Example:</b> Device# show route-map abc	Displays brief information about a specific route-map.

## Configuration Examples for PBR Match Track Object

### Example: PBR Match Track Object Configuration

```
Device> enable
Device# configure terminal
Device(config)# route-map abc
Device(config-route-map)# match track 2
Device(config-route-map)# end
```

### Example: Verifying PBR Match Track Object

#### Sample output for the show route-map map-name command

To display information about a specific route-map, use the **show route-map map-name** command in privileged EXEC mode.

```
Device> enable
Device# show route-map abc
route-map abc, permit, sequence 10
  Match clauses:
    track-object 2
  Set clauses:
  Policy routing matches: 0 packets, 0 bytes
```

## Additional References for PBR Match Track Object

#### Related Documents

Related Topic	Document Title
Cisco IOS commands	<a href="#">Cisco IOS Master Command List, All Releases</a>

### Technical Assistance

Description	Link
<p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p>	<p><a href="http://www.cisco.com/support">http://www.cisco.com/support</a></p>

## Feature Information for PBR Match Track Object

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.

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.

Feature Name	Releases	Feature Information
PBR Match Track Object	Cisco IOS XE Release 3.13S	<p>The PBR Match Track Object feature enables a device to track the stub object during Policy Based Routing.</p> <p>The following command was introduced: <b>match track</b> <i>track-object-number</i></p>

