



BGP Route-Map Continue

The BGP Route-Map Continue feature introduces the continue clause to Border Gateway Protocol (BGP) route-map configuration. The continue clause provides more programmable policy configuration and route filtering. It introduces the capability to execute additional entries in a route map after an entry is executed with successful match and set clauses. Continue clauses allow you to configure and organize more modular policy definitions to reduce the number of policy configurations that are repeated within the same route map.

Feature History for the BGP Route-Map Continue Feature

Release	Modification
12.0(24)S	This feature was introduced.
12.3(2)T	This feature was integrated.
12.2(18)S	This feature was integrated.
12.0(31)S	<i>BGP Route-map Continue Support for Outbound Policy</i> was introduced.

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Prerequisites for BGP Route-Map Continue

- This document assumes that BGP is enabled and peering has been established.

Restrictions for BGP Route-Map Continue

- Continue clauses are supported in outbound route maps only in Cisco IOS Release 12.0(31)S and subsequent releases.
- Continue clauses can only go to a higher route-map entry (higher sequence number) and cannot go to a lower route-map entry.

Information About BGP Route-Map Continue Clauses

- [Route-Map Operation Without Continue Clauses, page 2](#)
- [Route-map Operation With Continue Clauses, page 2](#)
- [Match Operations With Continue Clauses, page 3](#)
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Route-Map Operation Without Continue Clauses

A route map evaluates match clauses until a successful match occurs. After the match occurs, the route map stops evaluating match clauses and starts executing set clauses, in the order in which they were configured. If a successful match does not occur, the route-map “falls through” and evaluates the next sequence number of the route map until all configured route-map entries have been evaluated or a successful match occurs. Each route map sequence is tagged with a sequence number to identify the entry. Route-map entries are evaluated in order starting with the lowest sequence number and ending with the highest sequence number. If the route map contains only set clauses, the set clauses will be executed automatically, and the route map will not evaluate any other route-map entries.

Route-map Operation With Continue Clauses

When a continue clause is configured, the route map will continue to evaluate and execute match clauses in the specified route-map entry after a successful match occurs. The continue clause can be configured to go to (or jump to) a specific route-map entry by specifying the sequence number, or if a sequence number is not specified, the continue clause will go to the next sequence number. This behavior is called an “implied continue.” If a match clause exists, the continue clause is executed only if a match occurs. If no successful matches occur, the continue clause is ignored.

Match Operations With Continue Clauses

If a match clause does not exist in the route-map entry but a continue clause does, the continue clause will be automatically executed and go to the specified route-map entry. If a match clause exists in a route-map entry, the continue clause is executed only when a successful match occurs. When a successful match occurs and a continue clause exists, the route map executes the set clauses and then goes to the specified route-map entry. If the next route map contains a continue clause, the route map will execute the continue clause if a successful match occurs. If a continue clause does not exist in the next route map, the route map will be evaluated normally. If a continue clause exists in the next route map but a match does not occur, the route map will not continue and will “fall through” to the next sequence number if one exists.

Set Operations With Continue Clauses

Set clauses are saved during the match clause evaluation process and executed after the route-map evaluation is completed. The set clauses are evaluated and executed in the order in which they were configured. Set clauses are only executed after a successful match occurs, unless the route map does not contain a match clause. The continue statement proceeds to the specified route-map entry only after configured set actions are performed. If a set action occurs in the first route map and then the same set action occurs again, with a different value, in a subsequent route map entry, the last set action may override any previous set actions that were configured with the same **set** command unless the **set** command permits more than one value. For example, the **set as-path prepend** command permits more than one autonomous system number to be configured.

**Note**

A continue clause can be executed, without a successful match, if a route-map entry does not contain a match clause.

Benefits of Continue Clauses

The benefits of this feature include the following:

- Continue clauses provide a programmable method to organize and control the flow of a route map. Route-map configuration was linear before this feature was introduced.
- Continue clauses allow you to modularize network policy configuration so that repeated policy definitions can be reduced within the same route-map.

How to Configure BGP Route-map Continue Clauses

This section contains the following procedures:

- [Configuring BGP Route-map Continue Clauses, page 4](#) (required)
- [Verifying the Configuration of BGP Route-map Continue, page 6](#) (optional)

Configuring BGP Route-map Continue Clauses

To configure a continue clause in a route map, perform the steps in this section.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **router bgp** *as-number*
4. **neighbor** *ip-address* | *peer-group-name* **remote-as** *as-number*
5. **neighbor** *ip-address* | *peer-group-name* **route-map** *route-map-name* **in** | **out**
6. **exit**
7. **route-map** [**permit** | **deny**] [*sequence-number*]
8. **match**
9. **set**
10. **continue** [*sequence-number*]
11. **exit**



Note

The **match** and **set** commands in step 8 and 9 are examples that are used to help describe the operation of the **continue** command. For a list of specific **match** and **set** commands, see the “Related Commands” table at the end of the **continue** command reference page.

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable Example: Router> enable	Enables higher privilege levels, such as privileged EXEC mode. • Enter your password if prompted.
Step 2	configure terminal Example: Router# configure terminal	Enters global configuration mode.
Step 3	router bgp <i>as-number</i> Example: Router(config)# router bgp 50000	Enters router configuration mode, and creates a BGP routing process.
Step 4	neighbor <i>ip-address</i> <i>peer-group-name</i> remote-as <i>as-number</i> Example: Router(config-router)# neighbor 10.0.0.1 remote-as 50000	Establishes a peering session with the specified neighbor.

	Command or Action	Purpose
Step 5	<pre>neighbor ip-address peer-group-name route-map route-map-name in out Router(config-router)# neighbor 10.0.0.1 route-map BLUE in</pre>	<p>Applies the inbound route map to routes received from the specified neighbor, or applies an outbound route map to routes advertised to the specified neighbor.</p> <p>Note Outbound route maps are supported in Cisco IOS Release 12.0(31)S and subsequent release.</p>
Step 6	<pre>exit</pre> <p>Example: Router(config-router)# exit</p>	Exits router configuration mode and enters global configuration mode.
Step 7	<pre>route-map [permit deny] [sequence-number]</pre> <p>Example: Router(config)# route-map ROUTE-MAP-NAME permit 10</p>	Enters route-map configuration mode to create or configure a route map.
Step 8	<pre>match</pre> <p>Example: Router(config-route-map)# match ip address</p>	<p>Configures a match command that specifies the conditions under which policy routing and route filtering occur.</p> <ul style="list-style-type: none"> Multiple match commands can be configured. If a match command is configured, a match must occur in order for the continue statement to be executed. If a match command is not configured, set and continue clauses will be executed. <p>Note The match and set commands in step 8 and 9 are examples that are used to help describe the operation of the continue command. For a list of specific match and set commands, see the “Related Commands” table at the end of the continue command reference page.</p>
Step 9	<pre>set</pre> <p>Example: Router(config-route-map)# set</p>	Configures a set command that specifies the routing action to perform if the criteria enforced by the match commands are met. Multiple set commands can be configured.
Step 10	<pre>continue [sequence-number]</pre> <p>Example: Router(config-route-map)# continue</p>	<p>Configures a route map to continue to evaluate and execute match statements after a successful match occurs.</p> <ul style="list-style-type: none"> If a sequence number is configured, the continue clause will go to the route map with the specified sequence number. If no sequence number is specified, the continue clause will go to the route map with the next sequence number. This behavior is called an “implied continue.”
Step 11	<pre>end</pre> <p>Example: Router(config-route-map)# end</p>	Exits route-map configuration mode and enters privileged EXEC mode.

Verifying the Configuration of BGP Route-map Continue

To verify the configuration and flow of continue clauses in a route map, perform the task in this section.

SUMMARY STEPS

1. **show route-map** [*map-name*]

DETAILED STEPS

	Command or Action	Purpose
Step 1	<code>show route-map</code> [<i>map-name</i>] Example: Router# show route-map	(Optional) Displays locally configured route maps. The name of the route map can be entered to filter the output.

Configuration Examples for BGP Route-map Continue

The following examples show configuration and verification of this feature:

- [BGP Route Map Continue Clause Example Configuration, page 6](#)
- [BGP Route-map Continue Clause Verification Example, page 7](#)

BGP Route Map Continue Clause Example Configuration

The following example shows continue clause configuration in a route-map sequence.

The first continue clause in route-map entry 10 indicates that the route map will go to route-map entry 30 if a successful matches occurs. If a match does not occur, the route map will “fall through” to route-map entry 20. If a successful match occurs in route-map entry 20, the set action will be executed and the route map will not evaluate any additional route-map entries.

If a successful match does not occur in route-map entry 20, the route map will “fall through” to route-map entry 30. This sequence does not contain a match clause, so the set clause will be automatically executed and the continue clause will go to the next route-map entry because a sequence number is not specified.

If there are no successful matches, the route-map will “fall through” to route-map entry 30 and execute the set clause, and route-map entry 40 will not be evaluated.

```
route-map ROUTE-MAP-NAME permit 10
  match ip address 1
  match metric 10
  set as-path prepend 10
  continue 30
!
route-map ROUTE-MAP-NAME permit 20
  match ip address 2
  match metric 20
  set as-path prepend 10 10
!
route-map ROUTE-MAP-NAME permit 30
```

```
set as-path prepend 10 10 10
continue
!
route-map ROUTE-MAP-NAME permit 40
match community 10:1
set local-preference 104
```

BGP Route-map Continue Clause Verification Example

To verify the configuration of continue clauses, use the [show route-map](#) command. The output of this command will display configured route-maps, match, set, and continue clauses. The following sample output is similar to the output that will be displayed:

```
Router# show route-map
route-map ROUTE-MAP-NAME, permit, sequence 10
  Match clauses:
    ip address (access-lists): 1
    metric 10
  Continue: sequence 40
  Set clauses:
    as-path prepend 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, permit, sequence 20
  Match clauses:
    ip address (access-lists): 2
    metric 20
  Set clauses:
    as-path prepend 10 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, permit, sequence 30
  Match clauses:
  Continue: to next entry 40
  Set clauses:
    as-path prepend 10 10 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, permit, sequence 40
  Match clauses:
    community (community-list filter): 10:1
  Set clauses:
    local-preference 104
  Policy routing matches: 0 packets, 0 bytes
route-map LOCAL-POLICY-MAP, permit, sequence 10
  Match clauses:
  Set clauses:
    community 655370
  Policy routing matches: 0 packets, 0 bytes
```

Additional References

The following sections provide references related to configuring BGP and route maps:

Related Documents

Related Topic	Document Title
BGP commands	<i>Cisco IOS IP Configuration Guide, Release 12.3</i>
BGP configuration tasks	<i>Cisco IOS IP Command Reference, Volume 2 of 4: Routing Protocols, Release 12.3</i>

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	—

MIBs

MIBs	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB website on Cisco.com at the following URL: http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml

RFCs

RFCs	Title
No new or modified RFCs are supported by this feature, and support for existing RFCs has not been modified by this feature.	—

Technical Assistance

Description	Link
Technical Assistance Center (TAC) home page, containing 30,000 pages of searchable technical content, including links to products, technologies, solutions, technical tips, tools, and lots more. Registered Cisco.com users can log in from this page to access even more content.	TAC Home Page: http://www.cisco.com/public/support/tac/home.shtml BGP Support Page: http://www.cisco.com/cgi-bin/Support/browse/psp_view.pl?p=Inter networking:BGP

Command Reference

This section documents new and modified commands.

New Commands

- [continue](#)

Modified Commands

- [show route-map](#)

continue

To configure a route-map to go to a route-map entry with a higher sequence number, use the **continue** command in route-map configuration mode. To remove a continue clause from a route map, use the **no** form of this command.

continue *sequence-number*

no continue

Syntax Description

<i>sequence-number</i>	(Optional) Route-map sequence number. If a route-map sequence number is not specified when configuring a continue clause, the continue clause will continue to the route-map entry with the next sequence number. This behavior is referred to as an “implied continue.”
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Defaults

If the sequence number argument is not configured when this command is entered, the continue clause will go to the route-map entry with the next default sequence number.

If a route-map entry contains a continue clause and no match clause, the continue clause will be executed automatically.

Continue clauses can be configured in outbound route maps only in Cisco IOS Release 12.0(31)S, and subsequent releases.

Command Modes

Route-map configuration

Command History

Release	Modification
12.0(22)S	This command was introduced.
12.3(2)T	This command was integrated into Cisco IOS Release 12.3(2)T.
12.2(18)S	This command was integrated into Cisco IOS Release 12.2(18)S.
12.0(31)S	Support for outbound route maps was introduced.

Usage Guidelines

The **continue** command is used to configure continue clauses in inbound Border Gateway Protocol (BGP) route maps.

Route-map Operation Without Continue Clauses

A route map evaluates match clauses until a successful match occurs. After the match occurs, the route map stops evaluating match clauses and starts executing set clauses, in the order in which they were configured. If a successful match does not occur, the route map “falls through” and evaluates the next sequence number of the route map until all configured route-map entries have been evaluated or a successful match occurs. Each route-map sequence is tagged with a sequence number to identify the entry. Route-map entries are evaluated in order starting with the lowest sequence number and ending with the highest sequence number. If the route map contains only set clauses, the set clauses will be executed automatically, and the route map will not evaluate any other route-map entries.

Route-map Operation With Continue Clauses

When a continue clause is configured, the route map will continue to evaluate and execute match clauses in the specified route-map entry after a successful match occurs. The continue clause can be configured to go to (or jump to) a specific route-map entry by specifying the sequence number, or if a sequence number is not specified, the continue clause will go to the next sequence number. This behavior is called an “implied continue.” If a match clause exists, the continue clause is executed only if a match occurs. If no successful matches occur, the continue clause is ignored.

Match Operations With Continue Clauses

If a match clause does not exist in the route-map entry but a continue clause does, the continue clause will be automatically executed and go to the specified route-map entry. If a match clause exists in a route-map entry, the continue clause is executed only when a successful match occurs. When a successful match occurs and a continue clause exists, the route map executes the set clauses and then goes to the specified route-map entry. If the next route map contains a continue clause, the route map will execute the continue clause if a successful match occurs. If a continue clause does not exist in the next route map, the route map will be evaluated normally. If a continue clause exists in the next route map but a match does not occur, the route map will not continue and will “fall through” to the next sequence number if one exists.

Set Operations With Continue Clauses

Set clauses are saved during the match clause evaluation process and executed after the route-map evaluation is completed. The set clauses are evaluated and executed in the order in which they were configured. Set clauses are only executed after a successful match occurs, unless the route map does not contain a match clause. The continue statement proceeds to the specified route-map entry only after configured set actions are performed. If a set action occurs in the first route map and then the same set action occurs again, with a different value, in a subsequent route-map entry, the last set action will override any previous set actions that were configured with the same **set** command.



Note

A continue clause can be executed, without a successful match, if a route-map entry does not contain a match clause.

Examples

In the following example, continue clause configuration is shown.

The first continue clause in route-map entry 10 indicates that the route map will go to route map entry 30 if a successful matches occurs. If a match does not occur, the route map will “fall through” to route-map entry 20. If a successful match occurs in route-map entry 20, the set action will be executed and the route map will not evaluate any additional route-map entries.

If a successful match does not occur in route-map entry 20, the route map will “fall through” to route-map entry 30. This sequence does not contain a match clause, so the set clause will be automatically executed and the continue clause will go to the next route-map entry because a sequence number is not specified.

If there are no successful matches, the route-map will “fall through” to route-map entry 30 and execute the set clause. Route-map entry 40 will not be evaluated.

```
Router(config)# route-map ROUTE-MAP-NAME permit 10
Router(config-route-map)# match ip address 1
Router(config-route-map)# match metric 10
Router(config-route-map)# set as-path prepend 10
Router(config-route-map)# continue 30
Router(config-route-map)# exit
Router(config)# route-map ROUTE-MAP-NAME permit 20
```

```

Router(config-route-map)# match ip address 2
Router(config-route-map)# match metric 20
Router(config-route-map)# set as-path prepend 10 10
Router(config-route-map)# exit
Router(config)# route-map ROUTE-MAP-NAME permit 30
Router(config-route-map)# set as-path prepend 10 10 10
Router(config-route-map)# continue
Router(config-route-map)# exit
Router(config)# route-map ROUTE-MAP-NAME permit 40
Router(config-route-map)# match community 10:1
Router(config-route-map)# set local-preference 104
Router(config-route-map)# exit

```

Related Commands

Command	Description
aggregate-address	Creates an aggregate entry in a BGP or multicast BGP database.
match as-path	Match BGP autonomous system path access lists.
match community	Matches a BGP community.
match extcommunity	Matches a BGP extended community.
match interface (IP)	Distributes routes that have their next hop out one of the interfaces specified.
match ip address	Distributes any routes that have a destination network number address permitted by a standard or extended access list, or performs policy routing on packets.
match ip next-hop	Redistributes any routes that have a next-hop router address passed by one of the access lists specified.
match ip route-source	Redistributes routes that have been advertised by routers and access servers at the address specified by the access lists.
match length	Bases policy routing on the Level 3 length of a packet.
match metric (IP)	Redistributes routes with the metric specified.
match mpls-label	Redistributes routes that include MPLS labels if the routes meet the conditions specified in the route map.
match route-type (IP)	Redistributes routes of the specified type.
match tag	Redistributes routes in the routing table that match the specified tags.
neighbor default-originate	Allows a BGP speaker (the local router) to send the default route 0.0.0.0 to a neighbor for use as a default route.
neighbor route-map	Applies a route map to incoming or outgoing routes.
neighbor remote-as	Adds an entry to the BGP or multiprotocol BGP neighbor table.
redistribute (IP)	Redistributes routes from one routing domain into another routing domain.
route-map (IP)	Defines the conditions for redistributing routes from one routing protocol to another, or enables policy routing.
set as-path	Modifies an autonomous system path for BGP routes.
set automatic-tag	Automatically computes the tag value in a route map configuration.
set comm-list delete	Removes communities from the community attribute of an inbound or outbound update.
set community	Sets the BGP communities attribute.
set dampening	Sets the BGP route dampening factors.
set default interface	Indicates where to output packets that pass a match clause of a route map for policy routing and have no explicit route to the destination.

Command	Description
set extcommunity	Sets the BGP extended communities attribute.
set interface	Indicates where to output packets that pass a match clause of route map for policy routing.
set ip default next-hop	Indicates where to output packets that pass a match clause of a route map for policy routing and for which the Cisco IOS software has no explicit route to a destination.
set ip default next-hop verify-availability	Configures a router to check the CDP database for the availability of an entry for the default next hop that is specified by the set ip default next-hop command.
set ip next-hop	Indicates where to output packets that pass a match clause of a route map for policy routing.
set ip next-hop verify-availability	Configures policy routing to verify if the next hops of a route map are CDP neighbors before policy routing to those next hops.
set ip precedence	Sets the precedence value in the IP header.
set level (IP)	Indicates where to import routes.
set local-preference	Specifies a preference value for the autonomous system path.
set metric (BGP, OSPF, RIP)	Sets the metric value for a routing protocol.
set metric-type	Sets the metric type for the destination routing protocol.
set mpls-label	Enables a route to be distributed with an MPLS label if the route matches the conditions specified in the route map.
set next-hop	Specifies the address of the next hop.
set nlri	This command was replaced by the address-family ipv4 and address-family vpnv4 commands.
set origin (BGP)	Sets the BGP origin code.
set qos-group	Sets a group ID that can be used later to classify packets.
set tag (IP)	Sets the value of the destination routing protocol.
set traffic-index	Defines where to output packets that pass a match clause of a route map for BGP policy accounting.
set weight	Specifies the BGP weight for the routing table.
show ip bgp	Displays entries in the BGP routing table.
show route-map	Displays all route maps configured or only the one specified.

show route-map

To display configured route maps, use the **show route-map** command in EXEC mode.

show route-map [*map-name*]

Syntax Description	<i>map-name</i> (Optional) Name of a specific route map.										
Defaults	No default behavior or values.										
Command Modes	EXEC										
Command History	<table border="1"> <thead> <tr> <th style="border-top: 1px solid black; border-bottom: 1px solid black;">Release</th> <th style="border-top: 1px solid black; border-bottom: 1px solid black;">Modification</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;">10.0</td> <td style="border-bottom: 1px solid black;">This command was introduced.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">12.0(22)S</td> <td style="border-bottom: 1px solid black;">Support for continue clauses was integrated into the output.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">12.3(2)T</td> <td style="border-bottom: 1px solid black;">Support for continue clauses was integrated into the output.</td> </tr> <tr> <td style="border-bottom: 1px solid black;">12.2(18)S</td> <td style="border-bottom: 1px solid black;">Support for continue clauses was integrated into the output.</td> </tr> </tbody> </table>	Release	Modification	10.0	This command was introduced.	12.0(22)S	Support for continue clauses was integrated into the output.	12.3(2)T	Support for continue clauses was integrated into the output.	12.2(18)S	Support for continue clauses was integrated into the output.
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Examples

The output of this command will display configured route-maps, match, set, and continue clauses. The following sample output is similar to the output that will be displayed:

```
Router# show route-map
route-map ROUTE-MAP-NAME, permit, sequence 10
  Match clauses:
    ip address (access-lists): 1
    metric 10
  Continue: sequence 40
  Set clauses:
    as-path prepend 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, permit, sequence 20
  Match clauses:
    ip address (access-lists): 2
    metric 20
  Set clauses:
    as-path prepend 10 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, permit, sequence 30
  Match clauses:
  Continue: to next entry 40
  Set clauses:
    as-path prepend 10 10 10
  Policy routing matches: 0 packets, 0 bytes
route-map ROUTE-MAP-NAME, deny, sequence 40
  Match clauses:
    community (community-list filter): 20:2
  Set clauses:
    local-preference 100
```

```

Policy routing matches: 0 packets, 0 bytes
route-map LOCAL-POLICY-MAP, permit, sequence 10
Match clauses:
Set clauses:
  community 655370
Policy routing matches: 0 packets, 0 bytes

```

Table 1 describes the significant fields shown in the display.

Table 1 *show route-map Field Descriptions*

Field	Description
route-map ROUTE-MAP-NAME	Name of the route map.
permit	Indicates that the route is redistributed as controlled by the set actions.
sequence	Number that indicates the position a new route map is to have in the list of route maps already configured with the same name.
Match clauses:	Match criteria—conditions under which redistribution is allowed for the current route map.
Continue:	Continue clause—shows the configuration of a continue clause and the route-map entry sequence number that the continue clause will go to.
Set clauses:	Set actions—the particular redistribution actions to perform if the criteria enforced by the match commands are met.
Policy routing matches:	The number of packets and bytes that have been successfully policy routed.

Related Commands

Command	Description
redistribute (IP)	Redistributes routes from one routing domain into another routing domain.
route-map (IP)	Defines the conditions for redistributing routes from one routing protocol into another, or enables policy routing.

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