

MVR Command Reference

This chapter describes commands used to configure Multicast VLAN Registration (MVR).

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mvr

mvr		
	To enable Multicast VLAN Registration (1 mode. To disable MVR, use the no form o	AVR), use the mvr command in the bridge domain configuration f this command.
	mvr	
	no mvr	
Syntax Description	This command has no arguments or keyw	ords.
Command Default	MVR is not enabled.	
Command Modes	Bridge domain configuration (config-bdor	nain)
Command History	Release Mo	dification
	9.3.0 Th	s command was introduced.
Usage Guidelines		at the bridge domain level. plicable while configuring the MVR on the CPT system: removed using the rewrite ingress tag pop 1 symmetric command
	• For a double tagged packet, the tag is at the EFP level.	removed using the rewrite ingress tag pop 2 symmetric command
	• For an untagged packet, a rewrite op	eration is not required.
Examples	The following example shows how to enal Router(config) # bridge-domain 22 Router(config-bdomain) # mvr Router(config-bdomain) # mvr group 22 Router(config-bdomain) # end	ole MVR on bridge domain 22 and configure the group address. 28.1.23.4 5
Related Commands	Command	Description
	show mvr	Verifies the MVR configuration.

mvr group

To define a global range of IP multicast groups on which MVR must be enabled, use the **mvr group** command in the bridge domain configuration mode. To remove the IP multicast address groups, use the **no** form of this command.

mvr group ip-address [count]

no mvr group ip-address [count]

Syntax Description	·	Crown ID address
ey	ip-address	Group IP address.
	count	Group count inside the bridge domain.
Command Default	The IP multicast addre	ess on which the MVR feature must be enabled is not defined.
Command Modes	Bridge domain configu	uration (config-bdomain)
Command History	Release	Modification
	9.3.0	This command was introduced.
Usage Guidelines	-	'R can be configured at the bridge domain level.
	Following configuration	on restrictions are applicable while configuring the MVR on the CPT system:
	• For a single tagg at the EFP level.	ed packet, the tag is removed using the rewrite ingress tag pop 1 symmetric command
	• For a double tagg at the EFP level.	ged packet, the tag is removed using the rewrite ingress tag pop 2 symmetric command
	• For an untagged	packet, a rewrite operation is not required.
	optional count parame count is from 1 to 2000 is sent to all source EF	<i>dress</i> [<i>count</i>] command configures an IP multicast address on the CPT system. The ter is used to configure a contiguous series of MVR group addresses (the range for); the default is 1). Any multicast data sent to the IP address mentioned in the command Ps on the CPT system and all receiver EFPs that have elected to receive data on that no form of the deletes the multicast IP address configuration.
Examples	The following example	e shows how to enable MVR on bridge domain 22 and configure the group address.
	Router(config)# bri Router(config-bdoma	

Router(config-bdomain)# mvr group 228.1.23.4 5
Router(config-bdomain)# end

Related Commands

Command	Description	
show mvr	Displays the MVR configuration.	
show mvr groups	Displays the group MVR configuration.	

mvr type

To configure an EFP as the MVR enabled source or receiver, use the **mvr type** command in the service-instance mode. To remove the source or receiver port configuration, use the **no** form of this command.

mvr type {source | receiver bridge-domain id [vlan id] [immediate]}

no mvr type {source | receiver bridge-domain id [vlan id] [immediate]}

Syntax Description	source	Configures an MVR EFP as the source.
	receiver bridge-domain id	Configures an MVR EFP as the receiver.
		<i>id</i> —Bridge domain ID.
	vlan id	(Optional) Specifies the VLAN ID to be used when the VLAN range is mentioned. This option is used only on the receiver EFP.
		<i>id</i> —VLAN ID.
	immediate	(Optional) Enables the Immediate-Leave feature on the receiver EFP.
Command Default	There is no default setting for	this command.
Command Modes	Service instance mode (config	-if-srv)
Command History	Release	Modification
	9.3.0	This command was introduced.
Usage Guidelines	Users must configure an MVR	bridge domain before configuring the MVR source and receiver EFPs.
	not receive data unless it become	riber port) is configured as the receiver to receive only multicast data. It does mes a member of the multicast group, either statically or by using IGMP leave FPs cannot belong to the multicast bridge-domain.
		ver bridge-domain <i>id</i> [<i>vlan id</i>] [immediate]} command is used to configure in <i>id</i> [<i>vlan id</i>] [immediate] is only applicable to the receiver EFPs.
Examples	This example shows how to ena MVR EFPs.	able MVR on the bridge domains and configure source MVR EFPs and receiver
	! Enabling MVR on the bri Router(config)# bridge-do Router(config-bdomain)# m Router(config-bdomain)# m	vr

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Router(config-bdomain)# end
Router(config) # bridge-domain 30
Router(config-bdomain) # mvr
Router(config-bdomain) # mvr group 226.0.0.1 5
! Configuring source EFP on the bridge domain 22.
Router(config) # TengigabitEthernet 6/3
Router(config-if) # service instance 100 ethernet
Router(config-if-srv) # encapsulation dot1g 12
Router(config-if-srv)# rewrite ingress tag pop 1 symmetric
Router (config-if-srv) # bridge-domain 22
Router (config-if-srv) # mvr type source
! Configuring receiver EFP on the bridge domain 50.
Router (config) # interface TengigabitEthernet 5/3
Router (config-if) # service instance 100 ethernet
Router(config-if-srv) # encapsulation dotlq 10
Router (config-if-srv) # rewrite ingress tag pop 1 symmetric
Router (config-if-srv) # bridge-domain 50
Router (config-if-srv) # mvr type receiver bridge-domain 22 immediate
! Configuring source EFP on the bridge domain 30.
Router(config) # TengigabitEthernet 4/3
Router (config-if) # service instance 100 ethernet
Router(config-if-srv) # encapsulation dot1q 12
Router (config-if-srv) # rewrite ingress tag pop 1 symmetric
Router(config-if-srv) # bridge-domain 30
Router(config-if-srv) # mvr type source
! Configuring receiver EFP on the bridge domain 60.
Router(config)# interface TengigabitEthernet 2/3
Router(config-if) # service instance 100 ethernet
Router (config-if-srv) # encapsulation dot1q 10
Router (config-if-srv) # rewrite ingress tag pop 1 symmetric
Router(config-if-srv) # bridge-domain 60
Router(config-if-srv) # mvr type receiver bridge-domain 30 immediate
! Configuring receiver EFP on the bridge domain 60 encapsulation range.
Router(config) # interface TengigabitEthernet 2/4
Router(config-if)# service instance 200 ethernet
Router(config-if-srv)# encapsulation dot1q 10-1000
Router(config-if-srv) # bridge-domain 60
Router (config-if-srv) # mvr type receiver bridge-domain 30 immediate vlan 20
```

Related Commands

Command	Description
show mvr [source-ports] [receiver-ports] [groups]	Displays MVR status and values for all the bridge-domains where MVR is enabled. It provides the number of groups configured per bridge domain and displays all receiver and source EFPs.

show mvr

To display the MVR information use the **show mvr** command in the privileged EXEC mode. **show mvr [source-ports] [receiver-ports] [groups]**

receiver-portsDisplays the details of the MVR enabled redgroupsDisplays the details of the MVR enabled groups	-
groups Displays the details of the MVR enabled groups	aroups
	groups.
$\overline{\mathbf{t}}$ This command has no default settings.	
Privileged EXEC (#)	
Release Modification	
9.3.0 This command was introduced.	
This command displays the MVR status and values for all the bridge-domains w provides the number of groups configured per bridge domain and displays all rec	
provides the number of groups configured per bridge domain and displays all rec	
provides the number of groups configured per bridge domain and displays all red This example shows how to view MVR receiver port configuration. Router# show mvr receiver-ports Joins: v1,v2,v3 counter shows total IGMP joins v3 counter shows IGMP joins received with both	receiver and sourc
provides the number of groups configured per bridge domain and displays all red This example shows how to view MVR receiver port configuration. Router# show mvr receiver-ports Joins: v1,v2,v3 counter shows total IGMP joins v3 counter shows IGMP joins received with both groups Port VLAN Status Immediate Leave (v1	h MVR and no Joins v1,v2,v3)
provides the number of groups configured per bridge domain and displays all red This example shows how to view MVR receiver port configuration. Router# show mvr receiver-ports Joins: v1,v2,v3 counter shows total IGMP joins v3 counter shows IGMP joins received with both groups Port VLAN Status Immediate Leave (v1	h MVR and no Joins

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Joins:				l IGMP joins received with	both MVR a	nd non-MVR	
groups Port	VLAN	Status	-	Immediate Leave	Ja (v1,v2,v3	oins 3) (v3)	
Gi36/2	1	ACTIVE	/UP	DISABLED		0	0
Gi36/2	2	ACTIVE	/UP	DISABLED		0	0

This example shows how to view MVR group details. Router# show mvr groups

MVR multicast VLAN: 1 MVR max Multicast Groups allowed: 2000 MVR current multicast groups: 60 MVR groups:

224.1.1.1 224.1.1.20 count 20	
ZZ4.I.I.I ZZ4.I.I.ZU COUNT ZU	
225.1.1.1 225.1.1.20 count 20	
229.1.1.1 229.1.1.10 count 10	
230.1.1.1 $230.1.1.10$ count 10	

MVR multicast VLAN: 2 MVR max Multicast Groups allowed: 2000 MVR current multicast groups: 60 MVR groups:

Group start	Group end	Туре	Count/Mask
224.1.1.1	224.1.1.20	count	20
225.1.1.1	225.1.1.20	count	20
229.1.1.1	229.1.1.10	count	10
230.1.1.1	230.1.1.10	count	10

This example shows how to view generic MVR details.

Router# show mvr

```
MVR Running: TRUE
MVR multicast VLAN: 2
MVR Max Multicast Groups: 2000
MVR Current multicast groups: 100
MVR Global query response time: 5 (tenths of sec)
```

Related Commands

Command	Description
mvr	Enables MVR on the EFP.
mvr group ip-address count	Defines a global range of IP multicast groups on which MVR is enabled.

Command	Description
mvr type {source receiver bridge-domain <i>id</i> [vlan vlan-id] [immediate]}	Configures an EFP as the MVR enabled source or receiver.