

## **PfRv3 Command References**

The following tables lists various Cisco IOS commands that are used for PfRv3 along with the command mode from which they are entered.

Table 1: Configuration Commands for PfRv3

Command mode	Command name	Description	
Interface configuration	bandwidth bandwidth-value	Configures inherited and received bandwidth values for the tunnel interface. The bandwidth value is in kilobits and the valid values are 1 to 10000000.	
Border configuration	border	Defines a device as a border.	
Domain master controller configuration	branch-to-branch	Disable branch to branch PfR optimization. This is configured on Branch Masters.  Note  Configuring the command results in two different bahaviors for the different releases.  See, PfRv3 Command Reference guide.	
Configuration	domain domain name	Configures a top level domain for PfRv3.	
Configuration interface	domain domain name pathpath-name	Configures a path for the domain for PfRv3.	
Global configuration	domain domain name pathpath-name path-idpath-id	Configures a path and path-id for a specified domain.	
Global configuration	domain path isp-name zero-sla	Configures Zero SLA on tunnel interface for an ISP path.	
Master controller configuration	hub ip-address	Configures an IP address for the hub.	
Domain class configuration	match {application   dscp}	Specifies applications or DSCP policies to be associated with a class.	

Command mode	Command name	Description
Master controller configuration	master ip-address	Configures an IP address for the master controller.
Domain VRF configuration	master {hub   branch   transit}	Defines a device as a master type. You can configure a master device as a hub, border, or a transit.
Domain VRF configuration	master transit pop-id	Configures an ID for the master transit branch.
Domain-class configuration	path-preference path-name fallback path-name	Specifies a path preference for a traffic class policy.
Master controller class type	priority priority-number [jitter   loss   one-way-delay] threshold thershold-value	Specifies threshold values for user-defined policies.
Domain configuration	vrf vrf- name	Configures a Virtual Routing and Forwarding (VRF) instance for a domain.

Table 2: Show Commands for PfRv3

Command mode	Command name	Description
Privileged EXEC	show domain domain-name border peering	Displays the border router peering status.
Privileged EXEC	show domain domain-name border pmi   begin prefix-learn	Displays the automatically learned site- prefix status information of the hub-border router.
Privileged EXEC	show domain domain-name border status	Displays the status of the border routers configured at the hub site.
Privileged EXEC	show domain domain-name border site-prefix	Displays the site-prefix status information of the hub- border router.
Privileged EXEC	show domain domain-name border channels	Displays channel information from the hub-border site.
Privileged EXEC	show domain domain-name border parent route	Displays the parent route information of a border channel.
Privileged EXEC	show domain domain-name border channels parent route	Displays the parent route information of a channel.
Privileged EXEC	show domain domain-name master exits	Displays the summary of the external interfaces configured at the hub site.
Privileged EXEC	show domain domain-name master peering	Displays the peering information of the hub-master controller.

Command mode	Command name	Description	
Privileged EXEC	show domain domain-name master discovered-sites	Displays branch sites that are remotely connected to the hub site.	
Privileged EXEC	show domain domain-name master site-prefix	Displays the site-prefix status information of the hub- master controller.	
Privileged EXEC	show platform pfrv3 rp active smart-probe	Displays the PfRv3 smart probe status on a Cisco ASR 1000 Series Aggregation Services Router configured at the hub site.	
Privileged EXEC	show platform pfrv3 fp active smart-probe	Displays the PfRv3 active smart probes status of a embedded-service-processor on Cisco ASR 1000 Series Aggregation Services Routers.	
Privileged EXEC	show platform hardware qfp active feature pfrv3 client global pfrv3-instance detail	Displays the platform hardware information on a Cisco ASR 1000 Series Aggregation Services Routers.	
Privileged EXEC	show flow monitor type performance-monitor	Displays the flow monitor information for passive performance monitoring on the egress interface of WAN.	
Privileged EXEC	show domain domain-name master traffic-classes summary	Displays the summary information of all the traffic classes.	
Privileged EXEC	show domain domain-name master traffic-classes	Displays the status information of the traffic class for the hub-master controller.	
Privileged EXEC	show domain domain-name master traffic-classes policy policy-name	Displays the occurrence of performance issues in a policy traffic class.	
Privileged EXEC	show domain domain-name master channels	Displays channel information from the hub site.	
Privileged EXEC	show domain domain-name master channels link-name path-name	Displays channel status information and the unreachable threshold crossing alerts (TCA) and on demand export (ODE) instances on a hub-master controller.	
Privileged EXEC	show domain domain-name master channels dst-site-id destination-site-id	Displays the details of destination site-ids configured with hub-master controller.	
Privileged EXEC	show domain domain-name default master site-capability	Displays the capability information of master controller.	

Table 3: Debug Commands for PfRv3

Command mode	Command name	Description
Privileged EXEC	debug platform hardware qfp active feature pfrv3 client	Enables PfRv3 Cisco Quantum Flow Processor (QFP) client debug logging.
Privileged EXEC	debug platform hardware qfp active feature pfrv3 datapath	Enables PfRv3 Cisco Quantum Flow Processor (QFP) data path debug logging.
Privileged EXEC	debug platform hardware qfp active feature pfrv3 pal	Enables debug logging for PfRv3 in the Cisco Quantum Flow Processor (QFP).
Privileged EXEC	debug platform software pfrv3	Enables PfRv3 platform debug commands.