

---

## Show Commands

### instance

<b>Syntax</b>	<b>instance</b> <b>instance</b> [ <b>interface</b> <i>interface-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] <b>instance interface</b> <i>interface-name</i> <b>vrid</b> <i>virtual-router-id</i> <b>ipv6</b>
<b>Context</b>	show>vrrp
<b>Description</b>	This command displays information for VRRP instances. If no command line options are specified, summary information for all VRRP instances displays.
<b>Parameters</b>	<b>interface</b> <i>ip-int-name</i> — Displays detailed information for the VRRP instances on the specified IP interface including status and statistics. <b>Default</b> Summary information for all VRRP instances. <b>vrid</b> <i>virtual-router-id</i> — Displays detailed information for the specified VRRP instance on the IP interface. <b>Default</b> All VRIDs for the IP interface. <b>Values</b> 1 — 255 <b>ipv6</b> — Specifies the IPv6 instance.
<b>Output</b>	<b>VRRP Instance Output</b> — The following table describes the instance command output fields for VRRP.

Label	Description
Interface name	The name of the IP interface.
VR ID	The virtual router ID for the IP interface
Own Owner	Yes — Specifies that the virtual router instance as owning the virtual router IP addresses. No — Indicates that the virtual router instance is operating as a non-owner.
Adm	Up — Indicates that the administrative state of the VRRP instance is up. Down — Indicates that the administrative state of the VRRP instance is down.
OpR	Up — Indicates that the operational state of the VRRP instance is up. Down — Indicates that the operational state of the VRRP instance is down.

Label	Description (Continued)
State	<p>When owner, <b>backup</b> defines the IP addresses that are advertised within VRRP advertisement messages.</p> <p>When non-owner, <b>backup</b> actually creates an IP interface IP address used for routing IP packets and communicating with the system when the access commands are defined (ping-reply, telnet-reply, and ssh-reply).</p>
Pol Id	The value that uniquely identifies a Priority Control Policy.
Base Priority	The <i>base-priority</i> value used to derive the in-use priority of the virtual router instance as modified by any optional VRRP priority control policy.
InUse Priority	The current in-use priority associated with the VRRP virtual router instance.
Msg Int	The administrative advertisement message timer used by the master virtual router instance to send VRRP advertisement messages and to derive the master down timer as backup.
Inh Int	<p><b>Yes</b> — When the VRRP instance is a non-owner and is operating as a backup and the <b>master-int-inherit</b> command is enabled, the master down timer is indirectly derived from the value in the advertisement interval field of the VRRP message received from the current master.</p> <p><b>No</b> — When the VRRP instance is operating as a backup and the <b>master-int-inherit</b> command is <i>not</i> enabled, the configured advertisement interval is matched against the value in the advertisement interval field of the VRRP message received from the current master. If the two values do not match then the VRRP advertisement is discarded.</p> <p>If the VRRP instance is operating as a master, this value has no effect.</p>
Backup Addr	The backup virtual router IP address.
BFD	Indicates BFD is enabled.
VRRP State	Specifies whether the VRRP instance is operating in a master or backup state.
Policy ID	<p>The VRRP priority control policy associated with the VRRP virtual router instance.</p> <p>A value of 0 indicates that no control policy policy is associated with the virtual router instance.</p>
Preempt Mode	<p><b>Yes</b> — The preempt mode is enabled on the virtual router instance where it will preempt a VRRP master with a lower priority.</p> <p><b>No</b> — The preempt mode is disabled and prevents the non-owner virtual router instance from preempting another, less desirable virtual router.</p>

Label	Description (Continued)
Ping Reply	<p>Yes — A non-owner master is enabled to reply to ICMP Echo requests directed to the virtual router instance IP addresses.</p> <p>Ping Reply is valid only if the VRRP virtual router instance associated with this entry is a non-owner.</p> <p>A non-owner backup virtual router never responds to such ICMP echo requests irrespective if Ping Reply is enabled.</p> <p>No — ICMP echo requests to the virtual router instance IP addresses are discarded.</p>
Telnet Reply	<p>Yes — Non-owner masters can to reply to TCP port 23 Telnet requests directed at the virtual router instances IP addresses.</p> <p>No — Telnet requests to the virtual router instance IP addresses are discarded.</p>
SSH Reply	<p>Yes — Non-owner masters can to reply to SSH requests directed at the virtual router instances IP addresses.</p> <p>No — All SSH request messages destined to the non-owner virtual router instance IP addresses are discarded.</p>
Primary IP of Master	The IP address of the VRRP master.
Primary IP	The IP address of the VRRP owner.
Up Time	The date and time when the operational state of the event last changed.
Virt MAC Addr	The virtual MAC address used in ARP responses when the VRRP virtual router instance is operating as a master.
Auth Type	Specifies the VRRP authentication Type 0 (no authentication), Type 1 (simple password), or Type 2 (MD5) for the virtual router.
Addr List Mismatch	<p>Specifies whether a trap was generated when the IP address list received in the advertisement messages received from the current master did not match the configured IP address list.</p> <p>This is an edge triggered notification. A second trap will not be generated for a packet from the same master until this event has been cleared.</p>
Master Priority	The priority of the virtual router instance which is the current master.
Master Since	<p>The date and time when operational state of the virtual router changed to master.</p> <p>For a backup virtual router, this value specifies the date and time when it received the first VRRP advertisement message from the virtual router which is the current master.</p>

**Sample Output**

```

*A:ALA-A# show router vrrp instance
=====
VRRP Instances
=====
Interface Name          VR Id Own Adm State      Base Pri  Msg Int
                        IP      Opr  Pol Id   InUse Pri  Inh Int
-----
n2                      1    No  Up  Master    100      1
                        IPv4      Up  n/a     100      No
    Backup Addr: 5.1.1.10
n2                      10   No  Up  Master    100      1.0
                        IPv6      Up  n/a     100      Yes
    Backup Addr: 5::10
                  FE80::10
-----
Instances : 2
=====
*A:ALA-A#

*A:ALA-A# show router vrrp instance interface n2 vrid 1
=====
VRRP Instance 1 for interface "n2"
=====
Owner                : No                VRRP State          : Master
Primary IP of Master: 5.1.1.2 (Self)
Primary IP           : 5.1.1.2                Standby-Forwarding: Disabled
VRRP Backup Addr    : 5.1.1.10
Admin State         : Up                    Oper State          : Up
Up Time             : 09/23/2004 06:53:45 Virt MAC Addr       : 00:00:5e:00:01:01
Auth Type           : None
Config Mesg Intvl   : 1                    In-Use Mesg Intvl  : 1
Master Inherit Intvl: No
Base Priority        : 100                    In-Use Priority     : 100
Policy ID           : n/a                    Preempt Mode       : Yes
Ping Reply          : No                    Telnet Reply       : No
SSH Reply           : No                    Traceroute Reply   : No
Init Delay          : 0                    Init Timer Expires: 0.000 sec
Creation State      : Active
-----
Master Information
-----
Primary IP of Master: 5.1.1.2 (Self)
Addr List Mismatch  : No                    Master Priority     : 100
Master Since        : 09/23/2004 06:53:49
-----
Masters Seen (Last 32)
-----
Primary IP of Master  Last Seen          Addr List Mismatch  Msg Count
-----
5.1.1.2              09/23/2004 06:53:49  No                  0
-----
Statistics
-----
Become Master        : 1                    Master Changes     : 1
Adv Sent             : 103                   Adv Received       : 0
Pri Zero Pkts Sent   : 0                    Pri Zero Pkts Rcvd: 0
Preempt Events       : 0                    Preempted Events   : 0
Mesg Intvl Discards  : 0                    Mesg Intvl Errors  : 0

```

```

Addr List Discards : 0
Auth Type Mismatch : 0
Invalid Auth Type : 0
IP TTL Errors : 0
Total Discards : 0
Addr List Errors : 0
Auth Failures : 0
Invalid Pkt Type : 0
Pkt Length Errors : 0
=====
*A:ALA-A#

*A:ALA-A# show router vrrp instance interface n2 vrid 1 ipv6
=====
VRRP Instance 1 for interface "n2"
=====
No Matching Entries
=====
*A:ALA-A#

*A:ALA-A# show router vrrp instance interface n2 vrid 10 ipv6
=====
VRRP Instance 10 for interface "n2"
=====
Owner : No VRRP State : Master
Primary IP of Master: FE80::1 (Self)
Primary IP : FE80::1
Standby-Forwarding: Disabled

VRRP Backup Addr : 5::10
: FE80::10
Admin State : Up Oper State : Up
Up Time : 09/23/2004 06:55:12 Virt MAC Addr : 00:00:5e:00:02:0a
Config Mesg Intvl : 1.0 In-Use Mesg Intvl : 1.0
Master Inherit Intvl: Yes
Base Priority : 100 In-Use Priority : 100
Policy ID : n/a Preempt Mode : Yes
Ping Reply : No Telnet Reply : No
Traceroute Reply : No
Init Delay : 0 Init Timer Expires: 0.000 sec
Creation State : Active
-----
Master Information
-----
Primary IP of Master: FE80::1 (Self)
Addr List Mismatch : No Master Priority : 100
Master Since : 09/23/2004 06:55:16
-----
Masters Seen (Last 32)
-----
Primary IP of Master Last Seen Addr List Mismatch Msg Count
-----
FE80::1 09/23/2004 06:55:16 No 0
-----
Statistics
-----
Master Transitions : 1 Discontinuity Time: 09/09/2004 01:57*
Adv Sent : 23 Adv Received : 0
Pri Zero Pkts Sent : 0 Pri Zero Pkts Rcvd: 0
Preempt Events : 0 Preempted Events : 0
Mesg Intvl Discards : 0 Mesg Intvl Errors : 0
Total Discards : 0 Addr List Errors : 0

```

```
Auth Failures      : 0                Invalid Pkt Type  : 0
IP TTL Errors     : 0                Pkt Length Errors : 0
=====
* indicates that the corresponding row element may have been truncated.
```

## policy

**Syntax** `policy [vrrp-policy-id [event event-type specific-qualifier]]`

**Context** `show>vrrp`

**Description** This command displays VRRP priority control policy information. If no command line options are specified, a summary of the VRRP priority control event policies displays.

**Parameters** *vrrp-policy-id* — Displays information on the specified priority control policy ID.

**Default** All VRRP policies IDs

**Values** 1 — 9999

**event event-type** — Displays information on the specified VRRP priority control event within the policy ID.

**Default** All event types and qualifiers

**Values** `port-down port-id`  
`lag-port-down lag-id`  
`host-unreachable host-ip-addr`  
`route-unknown route-prefix/mask`  
`mc-ipsec-non-forwarding`

*specific-qualifier* — Display information about the specified qualifier.

**Values** port-id, lag-id, host-ip-addr, route-prefix/mask, tunnel-group-id

**Output** **VRRP Policy Output** — The following table describes the VRRP policy command output fields.

Label	Description
Policy Id	The VRRP priority control policy associated with the VRRP virtual router instance.  A value of 0 indicates that no control policy is associated with the virtual router instance.
Current Priority & Effects	
Current Explicit	When multiple explicitly defined events associated with the priority control policy happen simultaneously, the lowest value of all the current explicit priorities will be used as the in-use priority for the virtual router.

Label	Description (Continued)
Current Delta Sum	The sum of the priorities of all the delta events when multiple delta events associated with the priority control policy happen simultaneously. This sum is subtracted from the base priority of the virtual router to give the in-use priority.
Delta Limit	<p>The delta-in-use-limit for a VRRP policy. Once the total sum of all delta events has been calculated and subtracted from the base-priority of the virtual router, the result is compared to the delta-in-use-limit value. If the result is less than this value, the delta-in-use-limit value is used as the virtual router in-use priority value. If an explicit priority control event overrides the delta priority control events, the delta-in-use-limit has no effect.</p> <p>If the delta-in-use-limit is 0, the sum of the delta priority control events to reduce the virtual router's in-use-priority to 0 can prevent it from becoming or staying master.</p>
Current Priority	The configured delta-in-use-limit priority for a VRRP priority control policy or the configured delta or explicit priority for a priority control event.
Applied	The number of virtual router instances to which the policy has been applied. The policy cannot be deleted unless this value is 0.
Description	A text string which describes the VRRP policy.
Event Type & ID	<p>A delta priority event is a conditional event defined in a priority control policy that subtracts a given amount from the base priority to give the current in-use priority for the VRRP virtual router instances to which the policy is applied.</p> <p>An explicit priority event is a conditional event defined in a priority control policy that explicitly defines the in-use priority for the VRRP virtual router instances to which the policy is applied.</p> <p>Explicit events override all delta Events. When multiple explicit events occur simultaneously, the event with the lowest priority value defines the in-use priority.</p>
Event Oper State	The operational state of the event.
Hold Set Remaining	The amount of time that must pass before the set state for a VRRP priority control event can transition to the cleared state to dampen flapping events.
Priority & Effect	<p>Delta — The <i>priority-level</i> value is subtracted from the associated virtual router instance's base priority when the event is set and no explicit events are set. The sum of the priority event <i>priority-level</i> values on all set delta priority events are subtracted from the virtual router base priority to derive the virtual router instance in-use priority value.</p> <p>If the <b>delta</b> priority event is cleared, the <i>priority-level</i> is no longer used in the in-use priority calculation.</p>

Label	Description (Continued)
	<p><b>Explicit</b> – The <i>priority-level</i> value is used to override the base priority of the virtual router instance if the priority event is set and no other <b>explicit</b> priority event is set with a lower <i>priority-level</i>.</p> <p>The set <b>explicit</b> priority value with the lowest <i>priority-level</i> determines the actual in-use protocol value for all virtual router instances associated with the policy.</p>
In Use	Specifies whether or not the event is currently affecting the in-use priority of some virtual router.

**Sample Output**

```
A:ALA-A# show vrrp policy
=====
VRRP Policies
=====
Policy      Current      Current      Current      Delta      Applied
Id          Priority & Effect  Explicit    Delta Sum    Limit
-----
1           None          None         None         1          Yes
2           None          None         None         1          No
=====
A:ALA-A#
```

```
A:ALA-A# show vrrp policy 1
=====
VRRP Policy 1
=====
Description      : 10.10.200.253 reachability
Current Priority: None          Applied           : No
Current Explicit: None          Current Delta Sum : None
Delta Limit      : 1
```

```
-----
Applied To      VR   Opr   Base   In-use  Master  Is
Interface Name  Id        Pri   Pri   Pri     Pri     Master
-----
None
```

```
-----
Priority Control Events
-----
Event Type & ID          Event Oper State          Hold Set  Priority In
                          Remaining &Effect  Use
-----
Host Unreach 10.10.200.252  n/a                      Expired   20 Del No
Host Unreach 10.10.200.253  n/a                      Expired   10 Del No
Route Unknown 10.10.100.0/24        n/a                      Expired   1 Exp No
=====
A:ALA-A#
```



**VRRP Policy Event Output** — The following table describes a specific event VRRP policy command output fields.

Label	Description
Description	A text string which describes the VRRP policy.
Policy Id	The VRRP priority control policy associated with the VRRP virtual router instance.  A value of 0 indicates that no control policy is associated with the virtual router instance.
Current Priority	The base router priority for the virtual router instance used in the master election process.
Current Explicit	When multiple explicitly defined events associated with the priority control policy happen simultaneously, the lowest value of all the current explicit priorities will be used as the in-use priority for the virtual router.
Applied	The number of virtual router instances to which the policy has been applied. The policy cannot be deleted unless this value is 0.
Current Delta Sum	The sum of the priorities of all the delta events when multiple delta events associated with the priority control policy happen simultaneously. This sum is subtracted from the base priority of the virtual router to give the in-use priority.
Delta Limit	The delta-in-use-limit for a VRRP policy. Once the total sum of all delta events has been calculated and subtracted from the base-priority of the virtual router, the result is compared to the delta-in-use-limit value. If the result is less than this value, the delta-in-use-limit value is used as the virtual router in-use priority value. If an explicit priority control event overrides the delta priority control events, the delta-in-use-limit has no effect.  If the delta-in-use-limit is 0, the sum of the delta priority control events to reduce the virtual router's in-use-priority to 0 can prevent it from becoming or staying master.
Applied to Interface Name	The interface name where the VRRP policy is applied.
VR ID	The virtual router ID for the IP interface.
Opr	Up — Indicates that the operational state of the VRRP instance is up.  Down — Indicates that the operational state of the VRRP instance is down.
Base Pri	The base priority used by the virtual router instance.
InUse Priority	The current in-use priority associated with the VRRP virtual router instance.

Label	Description (Continued)
Master Priority	The priority of the virtual router instance which is the current master.
Priority	The base priority used by the virtual router instance.
Priority Effect	<p><b>Delta</b> – A delta priority event is a conditional event defined in a priority control policy that subtracts a given amount from the base priority to give the current in-use priority for the VRRP virtual router instances to which the policy is applied.</p> <p><b>Explicit</b> – A conditional event defined in a priority control policy that explicitly defines the in-use priority for the VRRP virtual router instances to which the policy is applied.</p> <p>Explicit events override all delta events. When multiple explicit events occur simultaneously, the event with the lowest priority value defines the in-use priority.</p>
Current Priority	The configured delta-in-use-limit priority for a VRRP priority control policy or the configured delta or explicit priority for a priority control event.
Event Oper State	The operational state of the event.
Hold Set Remaining	The amount of time that must pass before the set state for a VRRP priority control event can transition to the cleared state to dampen flapping events.
Priority	The base priority used by the virtual router instance.
Priority Effect	<p><b>Delta</b> – The <i>priority-level</i> value is subtracted from the associated virtual router instance's base priority when the event is set and no explicit events are set. The sum of the priority event <i>priority-level</i> values on all set delta priority events are subtracted from the virtual router base priority to derive the virtual router instance in-use priority value.</p> <p>If the <b>delta</b> priority event is cleared, the <i>priority-level</i> is no longer used in the in-use priority calculation.</p> <p><b>Explicit</b> – The <i>priority-level</i> value is used to override the base priority of the virtual router instance if the priority event is set and no other <b>explicit</b> priority event is set with a lower <i>priority-level</i>.</p> <p>The set <b>explicit</b> priority value with the lowest <i>priority-level</i> determines the actual in-use protocol value for all virtual router instances associated with the policy.</p>
Hold Set Config	The configured number of seconds that the hold set timer waits after an event enters a set state or enters a higher threshold set state, depending on the event type.
Value In Use	<b>Yes</b> – The event is currently affecting the in-use priority of some virtual router.

Label	Description (Continued)
	No – The event is not affecting the in-use priority of some virtual router.
# trans to Set	The number of times the event has transitioned to one of the 'set' states.
Last Transition	The time and date when the operational state of the event last changed.

### Sample Output

```
A:ALA-A#show vrrp policy 1 event port-down
=====
VRRP Policy 1, Event Port Down 1/1/1
=====
Description      :
Current Priority: None           Applied           : Yes
Current Explicit: None         Current Delta Sum : None
Delta Limit      : 1

-----
Applied To      VR      Opr      Base      In-use      Master      Is
Interface Name  Id      Pri      Pri      Pri      Pri      Master
-----
ies301backup    1      Down    100      100      0      No

-----
Priority Control Event Port Down 1/1/1
-----
Priority          : 30           Priority Effect   : Delta
Hold Set Config  : 0 sec        Hold Set Remaining: Expired
Value In Use     : No           Current State    : Cleared
# trans to Set   : 6           Previous State   : Set-down
Last Transition  : 04/13/2007 04:54:35
=====
A:ALA-A#

A:ALA-A# show vrrp policy 1 event host-unreachable
=====
VRRP Policy 1, Event Host Unreachable 10.10.200.252
=====
Description      : 10.10.200.253 reachability
Current Priority: None           Applied           : No
Current Explicit: None         Current Delta Sum : None
Delta Limit      : 1

-----
Applied To      VR      Opr      Base      In-use      Master      Is
Interface Name  Id      Pri      Pri      Pri      Pri      Master
-----
None

-----
Priority Control Event Host Unreachable 10.10.200.252
-----
Priority          : 20           Priority Effect   : Delta
Interval         : 1 sec        Timeout          : 1 sec
Drop Count       : 3
Hold Set Config  : 0 sec        Hold Set Remaining: Expired
```

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```
Value In Use      : No                Current State      : n/a
# trans to Set   : 0                  Previous State     : n/a
Last Transition   : 04/13/2007 23:10:24
=====
A:ALA-A#

A:ALA-A# show vrrp policy 1 event route-unknown
=====
VRRP Policy 1, Event Route Unknown 10.10.100.0/24
=====
Description       : 10.10.200.253 reachability
Current Priority   : None              Applied            : No
Current Explicit  : None              Current Delta Sum  : None
Delta Limit       : 1

-----
Applied To        VR    Opr    Base  In-use  Master  Is
Interface Name    Id    Pri    Pri    Pri    Pri    Master
-----
None

-----
Priority Control Event Route Unknown 10.10.100.0/24
-----
Priority          : 1                  Priority Effect    : Explicit
Less Specific    : No                  Default Allowed   : No
Next Hop(s)     : None
Protocol(s)     : None
Hold Set Config : 0 sec              Hold Set Remaining: Expired
Value In Use    : No                  Current State     : n/a
# trans to Set  : 0                  Previous State    : n/a
Last Transition  : 04/13/2007 23:10:24
=====
A:ALA-A#
```

## statistics

- Syntax** **statistics**
- Context** show>router>vrrp
- Description** This command displays statistics for VRRP instance.
- Output** **VRRP Statistics Output** — The following table describes the VRRP statistics output fields.

**Table 8: Show VRRP Statistics Output**

Label	Description
VR Id Errors	Displays the number of virtual router ID errors.
Version Errors	Displays the number of version errors.
Checksum Errors	Displays the number of checksum errors.

**Sample Output**

```
A:ALA-48# show router vrrp statistics
=====
VRRP Global Statistics
=====
VR Id Errors      : 0                Version Errors    : 0
Checksum Errors  : 0
=====
A:ALA-48#
```

---

## Monitor Commands

### instance

- Syntax** `instance interface interface-name vr-id virtual-router-id [ipv6] [interval seconds] [repeat repeat] [absolute | rate]`
- Context** monitor>router>vrrp
- Description** Monitor statistics for a VRRP instance.
- Parameters**
- interface-name* — The name of the existing IP interface on which VRRP is configured.
  - vr-id** *virtual-router-id* — The virtual router ID for the existing IP interface, expressed as a decimal integer.
  - interval** *seconds* — Configures the interval for each display in seconds.
    - Default** 5 seconds
    - Values** 3 — 60
  - repeat** *repeat* — Configures how many times the command is repeated.
    - Default** 10
    - Values** 1 — 999
  - absolute** — When the **absolute** keyword is specified, the raw statistics are displayed, without processing. No calculations are performed on the delta or rate statistics.
  - rate** — When the **rate** keyword is specified, the rate-per-second for each statistic is displayed instead of the delta.
  - ipv6** — Specifies to monitor IPv6 instances.

### Sample Output

```
*A:ALA-A# monitor router vrrp instance interface n2 vr-id 1
=====
Monitor statistics for VRRP Instance 1 on interface "n2"
=====
-----
At time t = 0 sec (Base Statistics)
-----
Become Master           : 1                Master Changes       : 1
Adv Sent                : 1439             Adv Received         : 0
Pri Zero Pkts Sent     : 0                Pri Zero Pkts Rcvd  : 0
Preempt Events         : 0                Preempted Events    : 0
Mesg Intvl Discards    : 0                Mesg Intvl Errors   : 0
Addr List Discards     : 0                Addr List Errors    : 0
Auth Type Mismatch     : 0                Auth Failures       : 0
Invalid Auth Type      : 0                Invalid Pkt Type    : 0
IP TTL Errors          : 0                Pkt Length Errors   : 0
Total Discards         : 0
=====
```

```
*A:ALA-A#
```

```
*A:ALA-A# monitor router vrrp instance interface n2 vr-id 10 ipv6
```

```
=====
```

```
Monitor statistics for VRRP Instance 10 on interface "n2"
```

```
=====
```

```
-----
```

```
At time t = 0 sec (Base Statistics)
```

```
-----
```

Master Transitions	: 1	Discontinuity Time:	09/09/2004 01:57*
Adv Sent	: 1365	Adv Received	: 0
Pri Zero Pkts Sent	: 0	Pri Zero Pkts Rcvd:	0
Preempt Events	: 0	Preempted Events	: 0
Mesg Intvl Discards	: 0	Mesg Intvl Errors	: 0
Total Discards	: 0	Addr List Errors	: 0
Auth Failures	: 0	Invalid Pkt Type	: 0
IP TTL Errors	: 0	Pkt Length Errors	: 0

```
=====
```

```
*A:ALA-A#
```

---

## Clear Commands

### interface

<b>Syntax</b>	<b>interface</b> <i>ip-int-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] <b>interface</b> <i>ip-int-name</i> <b>vrid</b> <i>virtual-router-id</i> <b>ipv6</b>
<b>Context</b>	clear>router>vrrp
<b>Description</b>	This command resets VRRP protocol instances on an IP interface.
<b>Parameters</b>	<i>ip-int-name</i> — The IP interface to reset the VRRP protocol instances. <b>vrid</b> <i>vrid</i> — Resets the VRRP protocol instance for the specified VRID on the IP interface. <b>Default</b> All VRIDs on the IP interface. <b>Values</b> 1 — 255 <b>ipv6</b> — Clears IPv6 information for the specified interface.

### statistics

<b>Syntax</b>	<b>statistics</b> [ <b>policy</b> <i>policy-id</i> ]
<b>Context</b>	clear>router>vrrp
<b>Description</b>	This command enables the context to clear and reset VRRP entities.
<b>Parameters</b>	<b>policy</b> <i>policy-id</i> — Clears statistics for the specified policy. <b>Values</b> 1 — 9999

### statistics

<b>Syntax</b>	<b>statistics interface</b> <i>interface-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] <b>statistics</b> <b>statistics interface</b> <i>interface-name</i> <b>vrid</b> <i>virtual-router-id</i> <b>ipv6</b>
<b>Context</b>	clear>router>vrrp
<b>Description</b>	This command clears statistics for VRRP instances on an IP interface or VRRP priority control policies.
<b>Parameters</b>	<b>interface</b> <i>ip-int-name</i> — Clears the VRRP statistics for all VRRP instances on the specified IP interface.



**vrid** *virtual-router-id* — Clears the VRRP statistics for the specified VRRP instance on the IP interface.

**Default** All VRRP instances on the IP interface.

**Values** 1 — 255

**policy** [*vrrp-policy-id*] — Clears VRRP statistics for all or the specified VRRP priority control policy.

**Default** All VRRP policies.

**Values** 1 — 9999

**ipv6** — Clears IPv6 statistics for the specified interface.

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## Debug Commands

### events

<b>Syntax</b>	<b>events</b> <b>events interface</b> <i>ip-int-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] <b>events interface</b> <i>ip-int-name</i> <b>vrid</b> <i>virtual-router-id</i> <b>ipv6</b> <b>no events</b> <b>no events interface</b> <i>ip-int-name</i> <b>vrid</b> <i>virtual-router-id</i> <b>ipv6</b> <b>no events interface</b> <i>ip-int-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ]
<b>Context</b>	debug>router>vrrp
<b>Description</b>	This command enables debugging for VRRP events. The <b>no</b> form of the command disables debugging.
<b>Parameters</b>	<i>ip-int-name</i> — Displays the specified interface name. <b>vrid</b> <i>virtual-router-id</i> — Displays the specified VRID. <b>ipv6</b> — Debugs the specified IPv6 VRRP interface.

### packets

<b>Syntax</b>	<b>packets interface</b> <i>ip-int-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] <b>packets</b> <b>no packets interface</b> <i>ip-int-name</i> [ <b>vrid</b> <i>virtual-router-id</i> ] [ <b>ipv6</b> ] <b>no packets</b>
<b>Context</b>	debug>router>vrrp
<b>Description</b>	This command enables debugging for VRRP packets. The <b>no</b> form of the command disables debugging.
<b>Parameters</b>	<i>ip-int-name</i> — Displays the specified interface name. <b>vrid</b> <i>virtual-router-id</i> — Displays the specified VRID.