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## Filter Command Reference

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### Configuration Commands

#### DHCP Filter Policy Commands

```

config
  — filter
    — dhcp-filter filter-id [create]
    — no dhcp-filter filter-id
      — description description-string
      — no description
      — entry entry-id [create]
      — no entry entry-id
        — action {bypass-host-creation}
        — action drop
        — no action
        — option dhcp-option-number {present | absent}
        — option dhcp-option-number match hex hex-string [exact] [invert-match]
        — option dhcp-option-number match string ascii-string [exact] [invert-match]
        — no option

```

## IP Filter Policy Commands

```
config
  — filter
    — ip-filter filter-id [create]
    — ip-filter {filter-id | filter-name}
    — no ip-filter filter-id
      — default-action {drop | forward}
      — description description-string
      — no description
      — embed-filter filter-id [offset offset] [{active | inactive}]
      — no embed-filter filter-id
      — entry entry-id [time-range time-range-name] [create]
      — no entry entry-id
        — action [drop]
        — action forward [next-hop {ip-address | indirect ip-address | interface
          ip-int-name}]
        — action forward [redirect-policy policy-name]
        — action forward [sap sap-id | sdp sdp-id:vc-id]
        — action http-redirect rdr-url-string
        — action nat [nat-policy-name]
        — action reassemble
        — no action
        — description description-string
        — no description
        — [no] filter-sample
        — [no] interface-disable-sample
        — log log-id
        — no log
        — match [protocol protocol-id]
        — no match
          — dscp dscp-name
          — no dscp
          — dst-ip {ip-address/mask | ip-address netmask | ip-prefix-list
            prefix-list-name}
          — no dst-ip
          — dst-port {lt | gt | eq} dst-port-number
          — dst-port range start end
          — no dst-port
          — fragment {true|false|first-only|non-first-only}
          — no fragment
          — icmp-code icmp-code
          — no icmp-code
          — icmp-type icmp-type
          — no icmp-type
          — ip-option ip-option-value [ip-option-mask]
          — no ip-option
          — multiple-option {true | false}
          — no multiple-option
          — option-present {true | false}
          — no option-present
          — src-ip {ip-address/mask | ip-address netmask | ip-prefix-list
            prefix-list-name}
          — no src-ip
          — src-port {{lt | gt | eq} src-port-number}
          — src-port range src-port-number src-port-number
          — no src-port
```

- **src-route-option** {true|false}
- **no src-route-option**
- **tcp-ack** {true | false}
- **no tcp-ack**
- **tcp-syn** {true | false}
- **no tcp-syn**
- **filter-name** *filter-name*
- **no filter-name**
- **group-inserted-entries** **application** *application* **location** *location*
- **renum** *old-entry-id* *new-entry-id*
- **scope** {exclusive | template | embedded}
- **no scope**
- **shared-radius-filter-wmark** **low** *low-watermark* **high** *high-watermark*
- **no shared-radius-filter-wmark**
- **sub-insert-credit-control** **start-entry** *entry-id* **count** *count*
- **no sub-insert-credit-control**
- **sub-insert-radius** **start-entry** *entry-id* **count** *count*
- **no sub-insert-radius**
- **sub-insert-shared-radius** **start-entry** *entry-id* **count** *count*
- **no sub-insert-shared-radius**
- **sub-insert-wmark** **low** *low-watermark* **high** *high-watermark*
- **no sub-insert-wmark**

## IPv6 Filter Policy Commands

```
config
  — filter
    — ipv6-filter filter-id [create]
    — ipv6-filter {filter-id | filter-name}
    — no ipv6-filter filter-id
      — default-action {drop | forward}
      — description description-string
      — no description
      — embed-filter filter-id [offset offset] [{active | inactive}]
      — no embed-filter filter-id
      — entry entry-id [time-range time-range-name] [create]
      — no entry entry-id
        — action [drop]
        — action forward
        — action forward next-hop {ipv6-address|indirect ipv6-address}
        — action http-redirect rdr-url-string
        — action nat [nat-policy-name]
        — no action
        — description description-string
        — no description
        — [no] filter-sample
        — [no] interface-disable-sample
        — log log-id
        — no log
        — match [next-header next-header]
        — no match
          — ah-ext-hdr {true | false }
          — no ah-ext-hdr
          — dscp dscp-name
          — no dscp
          — dst-ip {ip-address/mask | ip-address netmask | ip-prefix-list
            prefix-list-name}
          — no dst-ip
          — dst-port {lt | gt | eq} dst-port-number
          — dst-port range start end
          — no dst-port
          — esp-ext-hdr {true | false }
          — no esp-ext-hdr
          — fragment {true|false|first-only|non-first-only}
          — no fragment
          — hop-by-hop-opt {true|false}
          — no hop-by-hop-opt
          — icmp-code icmp-code
          — no icmp-code
          — icmp-type icmp-type
          — no icmp-type
          — routing-type0 {true|false}
          — no routing-type0
          — src-ip {ip-address/mask | ip-address netmask | ip-prefix-list
            prefix-list-name}
          — no src-ip
          — src-port {lt | gt | eq} src-port-number
          — src-port range src-port-number src-port-number
          — no src-port
```

- **tcp-ack** {true | false}
- **no tcp-ack**
- **tcp-syn** {true | false}
- **no tcp-syn**
- **filter-name** *filter-name*
- **no filter-name**
- **group-inserted-entries** **application** *application* **location** *location*
- **renum** *old-entry-id* *new-entry-id*
- **scope** {exclusive | template | embedded}
- **no scope**
- **shared-radius-filter-wmark** **low** *low-watermark* **high** *high-watermark*
- **no shared-radius-filter-wmark**
- **sub-insert-credit-control** **start-entry** *entry-id* **count** *count*
- **no sub-insert-credit-control**
- **sub-insert-radius** **start-entry** *entry-id* **count** *count*
- **no sub-insert-radius**
- **sub-insert-shared-radius** **start-entry** *entry-id* **count** *count*
- **no sub-insert-shared-radius**
- **sub-insert-wmark** **low** *low-watermark* **high** *high-watermark*
- **no sub-insert-wmark**

## Log Filter Commands

- config**
- **filter**
- **log** *log-id* [**create**]
- **no log** *log-id*
  - **description** *description-string*
  - **no description**
  - **destination** **memory** *num-entries* | **syslog** *syslog-id*
  - **destination** **syslog** *syslog-id*
  - **no destination**
  - **[no] shutdown**
  - **summary**
    - **[no] shutdown**
    - **summary-crit** *dst-addr*
    - **summary-crit** *src-addr*
    - **no summary-crit**
  - **[no] wrap-around**

## MAC Filter Commands

```
config
  — filter
    — mac-filter filter-id [create]
    — mac-filter {filter-id | filter-name}
    — no mac-filter filter-id
      — description description-string
      — no description
      — entry entry-id [time-range time-range-name]
      — no entry entry-id [create]
        — action [drop]
        — action forward [sap sap-id | sdp sdp-id]
        — no action
        — description description-string
        — no description
        — log log-id
        — no log
        — match [frame-type {802dot3 | 802dot2-llc | 802dot2-snap |
ethernet_II}]
        — no match
          — dot1p dot1p-value [dot1p-mask]
          — no dot1p
          — dsap dsap-value [dsap-mask]
          — no dsap
          — dst-mac ieee-address [ieee-address-mask]
          — no dst-mac
          — etype 0x0600..0xffff
          — no etype
          — inner-tag value [vid-mask]
          — no inner-tag
          — isid value [ to higher-value]
          — no isid
          — outer-tag value [vid-mask]
          — no outer-tag
          — snap-oui {zero | non-zero}
          — no snap-oui
          — snap-pid snap-pid
          — no snap-pid
          — ssap ssap-value [ssap-mask]
          — no ssap
          — src-mac ieee-address [ieee-address-mask]
          — no src-mac
      — renum old-entry-id new-entry-id
      — scope {exclusive | template}
      — no scope
      — type filter-type
```

## Match Filter List Commands

```

config
  — filter
    — match-list
      — ip-prefix-list ip-prefix-list-name [create]
      — no ip-prefix-list ip-prefix-list-name
        — [no] apply-path
          — bgp-peers index group reg-exp neighbor reg-exp
          — no bgp-peers index
        — description description-string
        — no description
        — [no] prefix ip-prefix/prefix-length
      — ipv6-prefix-list ipv6-prefix-list-name [create]
      — no ipv6-prefix-list ipv6-prefix-list-name
        — [no] apply-path
          — bgp-peers index group reg-exp neighbor reg-exp
          — no bgp-peers index
        — description description-string
        — no description
        — [no] prefix ipv6-prefix/prefix-length
      — port-list port-list-name create
      — no port-list port-list-name
        — description description-string
        — no description
        — port <<R12.0>> port number
        — port <<R12.0>> range start end
        — no port <<R12.0>>

```

## Redirect Policy Configuration Commands

```
config
  — filter
    — redirect-policy redirect-policy-name [create]
    — no redirect-policy redirect-policy-name
      — description description-string
      — no description
      — destination ip-address [create]
      — no destination ip-address
        — description description-string
        — no description
        — [no] ping-test
          — drop-count consecutive-failures [hold-down seconds]
          — no drop-count
          — interval seconds
          — no interval
          — timeout seconds
          — no timeout
        — priority [priority]
        — no priority
        — [no] shutdown
      — snmp-test test-name [create]
      — no snmp-test test-name
        — drop-count consecutive-failures [hold-down seconds]
        — no drop-count
        — interval seconds
        — no interval
        — oid oid-string community community-string
        — no oid
        — return-value return-value type return-type [disable | lower-
priority priority | raise-priority priority]
        — no return-value return-value type return-type
        — timeout seconds
        — no timeout
      — url-test test-name [create]
      — no url-test test-name
        — drop-count consecutive-failures [hold-down seconds]
        — no drop-count
        — interval seconds
        — no interval
        — return-code return-code-1 [return-code-2] [disable | lower-
priority priority | raise-priority priority]
        — no return-code return-code-1 [return-code-2]
        — timeout seconds
        — no timeout
        — url url-string [http-version version-string]
        — no url
    — [no] shutdown
```



## Copy Filter Commands

```

config
  — filter
    — copy ip-filter src-filter-id [src-entry src-entry-id] to dst-filter-id [dst-entry dst-entry-id]
      [overwrite]
    — copy ipv6-filter src-filter-id [src-entry src-entry-id] to dst-filter-id [dst-entry dst-entry-id]
      [overwrite]
    — copy mac-filter src-filter-id [src-entry src-entry-id] to dst-filter-id [dst-entry dst-entry-id]
      [overwrite]

```

## Show Commands

```

show
  — filter
    — dhcp [filter-id]
    — download-failed
    — ip
    — ip embedded [inactive]
    — ip ip-filter-id embedded [inactive]
    — ip ip-filter-id [detail]
    — ip ip-filter-id associations
    — ip ip-filter-id type entry-type
    — ip ip-filter-id counters [type entry-type]
    — ip ip-filter-id entry entry-id counters
    — ip ip-filter-id entry entry-id [detail]
    — ipv6
    — ipv6 embedded [inactive]
    — ipv6 ipv6-filter-id embedded [inactive]
    — ipv6 ipv6-filter-id [detail]
    — ipv6 ipv6-filter-id associations
    — ipv6 ipv6-filter-id type entry-type
    — ipv6 ipv6-filter-id counters [type entry-type]
    — ipv6 ipv6-filter-id entry entry-id counters
    — ipv6 ipv6-filter-id entry entry-id [detail]
    — log [bindings]
    — log log-id [match string]
    — mac mac-filter-id [entry entry-id] [association | counters]}
    — match-list
      — ip-prefix-list [prefix-list-name]
      — ip-prefix-list prefix-list-name references
      — ipv6-prefix-list [prefix-list-name]
      — ipv6-prefix-list prefix-list-name references
      — port-list [port-list-name]
      — port-list port-list-name references
    — redirect-policy redirect-policy-name [dest ip-address] [association]}

```

## Clear Commands

```

clear
  — filter
    — ip filter-id [entry entry-id] [ingress | egress]
    — ipv6 filter-id [entry entry-id] [ingress | egress]
    — log log-id
    — mac filter-id [entry entry-id] [ingress | egress]

```

## Monitor Commands

### **monitor**

- **filter ip** *ip-filter-id* **entry** *entry-id* [**interval** *seconds*] [**repeat** *repeat*] [**absolute** | **rate**]
- **filter ipv6** *ipv6-filter-id* **entry** *entry-id* [**interval** *seconds*] [**repeat** *repeat*] [**absolute** | **rate**]
- **filter mac** *mac-filter-id* **entry** *entry-id* [**interval** *seconds*] [**repeat** *repeat*] [**absolute** | **rate**]