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# Basic Command Reference

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## Command Hierarchies

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## Basic CLI Commands

- **back**
- **clear**
- **echo** [*text-to-echo*] [*extra-text-to-echo*] [*more-text*]
- **enable-admin**
- **exec** [-echo] [-syntax] *filename*
- **exit** [all]
- **help**
- **history**
- **info** [detail]
- **logout**
- **mrinfo** [*ip-address* | *dns-name*] [**router** *router-instance*]
- **mstat** **source** [*ip-address* | *dns-name*] [**group** *grp-ip-address*] [**destination** *dst-ip-address*] [**hop** *hop*] [**router** *router-instance*] [**wait-time** *wait-time*]
- **mtrace** **source** [*ip-address* | *dns-name*] [**group** *grp-ip-address*] [**destination** *dst-ip-address*] [**hop** *hop*] [**router** *router-instance*] [**wait-time** *wait-time*]
- **password**
- **ping** {*ip-address* | *dns-name*} [**rapid** | **detail**] [**ttl** *time-to-live*] [**tos** *type-of-service*] [**size** *bytes*] [**pattern** *pattern*] [**source** *ip-address*] [**interval** *seconds*] [{**next-hop** *ip-address*} | {**interface** *interface-name*} | **bypass-routing**] [**count** *requests*] [**do-not-fragment**] [**router** [*router-instance*]][**timeout** *time-out*]
- **pwc** [previous]
- **sleep** [seconds]
- **ssh** [*ip-addr* | *dns-name*] [*username@ip-addr*] [-l *username*] [-v *SSH-version*] [**router** *router-instance*] [**service-name** *service-name*]
- **telnet** [*ip-address* | *dns-name*] [*port*] [**router** *router-instance*]
- **traceroute** {*ip-address* | *dns-name*}[**tll** *value*] [**wait** *milliseconds*] [**no-dns**] [**source** *ip-address*] [**tos** *type-of-service*]
- **tree** [detail]
- **write** {*user* | **broadcast**} *message-string*

## Monitor Commands

- ```

monitor
— card slot-number fp fp-number ingress {access | network} queue-group queue-group-name
instance instance-id [interval seconds][repeat repeat] policer policer-id [absolute | percent-rate |
reference-rate]
— ccag ccag-id [path {a | b}] [type {sap-sap | sap-net | net-sap}] [interval seconds] [repeat repeat]
[absolute | rate]
— cpm-filter
— ip entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— ipv6 entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— mac entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— filter
— ip ip-filter-id entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— ipv6 ipv6-filter-id entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— mac mac-filter-id entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— lag lag-id [lag-id...(up to 5 max)] [interval seconds] [repeat repeat] [absolute | rate]
— management-access-filter
— ip entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— ipv6 entry entry-id [interval seconds] [repeat repeat] [absolute | rate]
— port port-id [port-id...(up to 5 max)] [interval seconds] [repeat repeat] [absolute | rate]
— port atm [interval seconds] [repeat repeat] [absolute|rate]
— qos
— arbiter-stats
— card slot-number fp fp-number queue-group queue-group-name instance
instance-id [ingress] [access | networks] [interval seconds][repeat repeat] [abso-
lute | percent-rate | reference-rate] [arbiter root | name]
— customer customer-id site customer-site-name [arbiter root|name]
[ingress|egress] [interval seconds] [repeat repeat] [absolute|rate]
— port port-id egress network queue-group queue-group-name instance instance-id
[interval seconds] [repeat repeat] [absolute | rate] [arbiter root | name]
— sap sap-id [arbiter name | root] [ingress | egress] [interval seconds] [repeat
repeat] [absolute | rate]
— subscriber sub-ident-string [arbiter name|root] [ingress|egress] [interval sec-
onds] [repeat repeat] [absolute|rate]
— port port-id exp-secondary-shaper shaper-name [interval seconds] [repeat repeat] [abso-
lute|rate]
— port port-id vport name monitor-threshold [interval seconds] [repeat repeat]
— port port-id monitor-threshold [interval seconds] [repeat repeat]
— scheduler-stats
— customer customer-id site customer-site-name [scheduler scheduler-name]
[ingress | egress] [interval seconds] [repeat repeat] [absolute | rate]
— port port-id queue-group queue-group-name [ingress | egress] [interval sec-
onds] [repeat repeat] [absolute | rate] [access | network] [instance instance-id]
— port port-id vport name [interval seconds] [repeat repeat] [absolute|rate]
— sap sap-id [scheduler scheduler-name] [ingress | egress] [interval seconds]
[repeat repeat] [absolute | rate]
— sap sap-id encap-group group-name [member encap-id] [scheduler scheduler-
name] [interval seconds] [repeat repeat] [absolute|rate]
— subscriber sub-ident-string [scheduler scheduler-name] [ingress | egress] [inter-
val seconds] [repeat repeat] [absolute | rate]
— subscriber sub-ident-string [interval seconds] [repeat repeat] [absolute|rate]
sap sap-id sla-profile sla-profile-name
— router [router-instance]
— bgp

```

- **neighbor** *ip-address* [*ip-address...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **isis**
  - **statistics** [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **ldp**
  - **session** *ldp-id* [*ldp-id...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **statistics** [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **mpls**
  - **interface** *interface* [*interface...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **lsp-egress-statistics** *lsp-name* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **lsp-ingress-statistics** *ip-address lsp lsp-name* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **ospf** [*ospf-instance*]
- **ospf3**
  - **interface** *interface* [*interface...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **neighbor** *ip-address* [*ip-address...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **virtual-link** *nbr-rtr-id area area-id* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **virtual-neighbor** *nbr-rtr-id area area-id* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **pim**
  - **group** *grp-ip-address* [*source ip-address*] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **rip**
  - **neighbor** *neighbor* [*neighbor...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **rsvp**
  - **interface** *interface* [*interface...*(up to 5 max)] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **vrrp**
  - **instance** *interface interface-name vr-id virtual-router-id* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
- **service**
  - **id** *service-id*
    - **sap** *sap-id* [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
    - **sdp** *sdp-id* [*far-end ip-address*] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]
  - **subscriber** *sub-ident-string sap sap-id sla-profile sla-profile-name* [*base | ingress-queue-id ingress-queue-id | egress-queue-id egress-queue-id*] [*interval seconds*] [**repeat repeat**] [**absolute | rate**]

## Environment Commands

```
<root>
  — environment
    — alias alias-name alias-command-name
    — no alias alias-name
    — [no] create
    — [no] more
    — reduced-prompt [no. of nodes in prompt]
    — no reduced-prompt
    — [no] saved-idx-prompt
    — suggest-internal-objects
    — terminal
      — length lines
      — width width
    — time-display {local | utc}
```

## Candidate Commands

```
<root>
  — candidate
    — edit [exclusive]
    — commit [confirmed timeout] [comment comment]
    — commit no-checkpoint [confirmed timeout]
    — confirm
    — copy [line]
    — delete [line]
    — discard [now]
    — goto line
    — insert [line]
    — load file-url [overwrite | insert | append]
    — quit
    — redo [count]
    — replace [line]
    — save file-url
    — undo [count]
    — view [line]
  — info operational operational

show
  — system
    — candidate
```

## Rollback Commands

```

root
  — admin
    — rollback
      — compare [to source2]
      — compare source1 to source2
      — delete {latest-rb | checkpoint-id | rescue}
      — revert [latest-rb] | checkpoint-id | rescue [now]
      — revert
      — save (rollback) [rescue] [comment comment-string]
      — view [latest-rb | checkpoint-id | rescue]
    — view {latest-cfg | active-cfg | latest-rb | checkpoint-id}
  config
    — system
      — rollback
        — [no] rollback-location file-url
        — [no] rescue-location file-url
        — [no] local-max-checkpoints <1...50>
        — [no] remote-max-checkpoints <1...50>

```

## Management Infrastructure Control Commands

```

config
  — system
    — management {cli}
      — configuration
        — immediate

```

