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# VSM Command Reference

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## Command Hierarchies

### VSM Configuration Commands

```

config
  — vsm
    — ccag ccag-id [create]
    — no ccag ccag-id [force]
      — access
        — adapt-qos {link | distribute | port-fair}
        — no adapt-qos
    — cca-rate kilobits-per-second
    — no cca-rate
    — description description-string
    — no description
    — [no] member-cca card-slot/mda-number
    — path {a | b}
      — net-sap
        — accounting-policy accounting-policy
        — no accounting-policy
        — [no] collect-stats
        — egress
          — pool
            — resv-cbs percentage-of-pool
            — no resv-cbs
            — slope-policy slope-policy-name
            — no slope-policy
        — mac mac-address
        — no mac
        — mtu mtu-size
        — no mtu
        — queue-policy queue-policy-name
        — no queue-policy
      — rate kilobits-per-second [aggregate | cca]
      — no rate
      — sap-net
        — egress
          — pool
            — resv-cbs percentage-of-pool
            — no resv-cbs
            — slope-policy slope-policy-name
            — no slope-policy
        — ingress
          — pool

```

- **resv-cbs** *percentage-of-pool*
- **no resv-cbs**
- **slope-policy** *slope-policy-name*
- **no slope-policy**
- **mac** *mac-address*
- **no mac**
- **mtu** *mtu-size*
- **no mtu**
- **sap-sap**
  - **egress**
    - **pool**
      - **resv-cbs** *percentage-of-pool*
      - **no resv-cbs**
      - **slope-policy** *slope-policy-name*
      - **no slope-policy**
    - **ingress**
      - **pool**
        - **resv-cbs** *percentage-of-pool*
        - **no resv-cbs**
        - **slope-policy** *slope-policy-name*
        - **no slope-policy**
- **mac** *mac-address*
- **no mac**
- **mtu** *mtu-size*
- **no mtu**
- **weight** *path-weight*
- **no weight**
- **[no] shutdown**

## Related Commands

```

config card slot-number
  — mda {1 | 2} type {existing-mds-types | vsm}
  — [no] mda {1 | 2}
config router [router-name]
  — [no] interface ip-interface-name
    — port ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id
    — no port
config service
  — epipe service-id [customer customer-id]
    — sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id [create]
    — no sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id
config service
  — vpls service-id [customer customer-id]
    — sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id [create]
    — no sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id
ies service-id [customer customer-id]
  — interface ip-interface-name
    — sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id [create]
    — no sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id
vrpn service-id [customer customer-id]
  — interface ip-interface-name
    — sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id [create]
    — no sap ccag-ccag-id.{a | b}[.sap-net | .sap-sap]:cc-id

```

