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## Video Command Reference

This section provides a command reference for the CLI commands for IP-TV video applications

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## IP-TV Command Hierarchies

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### Hardware Commands

```

config
  — [no] card slot-number
    — card-type card-type
    — no card-type
    — [no] mda mda-slot
      — mda-type mda-type
      — no mda-type

```

### Video Group Commands

```

config
  — isa
    — lms-group lms-group-id [create]
    — no lms-group lms-group-id
      — description description-string
      — no description
      — mda mda-id [drain]
      — no mda mda-id
      — [no] shutdown
    — video-group video-group-id [create]
    — no video-group video-group-id
      — [no] ad-insert
      — [no] analyzer
      — description description-string
      — no description
      — [no] enable-rt-client
      — [no] fcc-server
      — [no] local-rt-server
      — [no] primary mda-id
      — resv-ret resv-ret
      — [no] shutdown
      — [no] stream-selection

```

### Video Policy Video Commands

```

config
  — mcast-management
    — multicast-info-policy policy-name [create]
    — no multicast-info-policy policy-name
      — video-policy
        — video-interface ip-address [create]
        — no video-interface ip-address
          — fcc-session-timeout seconds
          — no fcc-session-timeout
          — hd

```

- **dent-threshold** *threshold*
- **no dent-threshold**
- **fcc-burst** *burst-percentage*
- **no fcc-burst**
- **fcc-server** [**mode** {burst | dent | hybrid}]
- **no fcc-server**
- **local-rt-server**
- **no local-rt-server**
- **mc-handover** *percentage*
- **no mc-handover**
- **rt-rate** *rt-burst-percentage*
- **no rt-rate**
- **max-sessions** *sessions*
- **no max-sessions**
- **pip**
  - **dent-threshold** *threshold*
  - **no dent-threshold**
  - **fcc-burst** *burst-percentage*
  - **no fcc-burst**
  - **fcc-server** [**mode** {burst | dent | hybrid}]
  - **no fcc-server**
  - **local-rt-server**
  - **no local-rt-server**
  - **mc-handover** *percentage*
  - **no mc-handover**
  - **rt-rate** *rt-burst-percentage*
  - **no rt-rate**
- **rt-mcast-reply** [**count** *count*] [**interval** *milliseconds*] [**hold-time** *milliseconds*]
- **no rt-mcast-reply**
- **rt-payload-type** *payload-type*
- **no rt-payload-type**
- **rt-rate** *rt-burst-percentage*
- **no rt-rate**
- **sd**
  - **dent-threshold** *threshold*
  - **no dent-threshold**
  - **fcc-burst** *burst-percentage*
  - **no fcc-burst**
  - **fcc-server** [**mode** {burst | dent | hybrid}]
  - **no fcc-server**
  - **local-rt-server**
  - **no local-rt-server**
  - **mc-handover** *percentage*
  - **no mc-handover**
  - **rt-rate** *rt-burst-percentage*
  - **no rt-rate**
- **subscriber-bw-limit** *bandwidth*
- **no subscriber-bw-limit**

## Bundle and Channel Commands

```

config
  — mcast-management
    — multicast-info-policy policy-name [create]
    — no multicast-info-policy policy-name
      — bundle bundle-name [create]
      — no bundle bundle-name
        — admin-bw kbps
        — no admin-bw
        — bw-activity {use-admin-bw | dynamic [falling-delay seconds]} [black-hole-rate kbps]
        — no bw-activity
        — channel ip-address [ip-address] [create]
        — no channel ip-address [ip-address]
          — admin-bw kbps
          — no admin-bw
          — video
            — fcc-channel-type {hd | sd | pip}
            — no fcc-channel-type
            — fcc-min-duration time
            — no fcc-min-duration
            — fcc-server [disable]
            — no fcc-server
            — local-fcc-port port
            — no local-fcc-port
            — local-rt-port port
            — no local-rt-port
            — local-rt-server [disable]
            — no local-rt-server
            — reorder-audio time
            — no reorder-audio
            — rt-buffer-size rt-buffer-size
            — no rt-buffer-size
            — rt-server disable
            — rt-server ip-address port port-num
            — no rt-server
            — video-group video-group-id
            — video-group disable
            — no video-group
          — source-override ip-address [create]
          — no source-override ip-address
            — admin-bw kbps
            — no admin-bw
            — video
              — fcc-channel-type {hd | sd | pip}
              — no fcc-channel-type
              — fcc-min-duration time
              — no fcc-min-duration
              — fcc-server [disable]
              — no fcc-server
              — local-fcc-port port
              — no local-fcc-port
              — local-rt-port port

```

- **no local-rt-port**
  - **local-rt-server** [**disable**]
  - **no local-rt-server**
  - **reorder-audio** *time*
  - **no reorder-audio**
  - **rt-buffer-size** *rt-buffer-size*
  - **no rt-buffer-size**
  - **rt-server** **disable**
  - **rt-server** *ip-address* **port** *port-num*
  - **no rt-server**
  - **video-group** *video-group-id*
  - **no video-group**
- **video**
    - **fcc-channel-type** {**hd** | **sd** | **pip**}
    - **no fcc-channel-type**
    - **fcc-min-duration** *time*
    - **no fcc-min-duration**
    - **fcc-server** [**disable**]
    - **no fcc-server**
    - **local-fcc-port** *port*
    - **no local-fcc-port**
    - **local-rt-port** *port*
    - **no local-rt-port**
    - **local-rt-server** [**disable**]
    - **no local-rt-server**
    - **reorder-audio** *time*
    - **no reorder-audio**
    - **rt-buffer-size** *rt-buffer-size*
    - **no rt-buffer-size**
    - **rt-server** **disable**
    - **rt-server** *ip-address* **port** *port-num*
    - **no rt-server**
    - **source-port** *port-num*
    - **no source-port**
    - **video-group** *video-group-id*
    - **video-group** **disable**
    - **no video-group**

---

## Service Video Interface Commands

### VPLS Commands

```
config>service>vpls service-id
— multicast-info-policy policy-name
— no multicast-info-policy
— video-interface ip-int-name [create]
— no video-interface ip-int-name
   — [no] address ip-address/mask
   — cpu-protection policy-id
   — no cpu-protection
   — description description-string
   — no description
   — gateway-ip ip-address
   — no gateway-ip
   — multicast-service service-id
   — no multicast-service
   — rt-client-src-address ip-address
   — no rt-client-src-address
   — [no] shutdown
   — video-sap video-group-id
   — no video-sap
      — egress
         — filter ip ip-filter-id
         — no filter
         — qos egress-qos-policy-id
         — no qos
      — ingress
         — filter ip ip-filter-id
         — no filter
         — qos ingress-qos-policy-id
         — no qos
```

## IES Commands

```

config>service>ies service-id
  — video-interface ip-int-name [create]
  — no video-interface ip-int-name
    — [no] address ip-address/mask
    — adi
      — channel mcast-address source ip-address [channel-name channel-name]
      — no channel mcast-address source ip-address
        — description description-string
        — no description
        — scte35-action {forward | drop}
        — zone-channel mcast-address source ip-address adi-channel-name chan-
          nel-name
        — no zone-channel mcast-address source ip-address
      — scte30
        — [no] ad-server ip-address
        — local-address control ip-address data ip-address
        — no local-address
      — [no] shutdown
    — description description-string
    — no description
    — multicast-service service-id
    — no multicast-service
    — rt-client-src-address ip-address
    — no rt-client-src-address
    — [no] shutdown
    — video-sap video-group-id
    — no video-sap
      — egress
        — filter ip ip-filter-id
        — no filter
        — qos egress-qos-policy-id
        — no qos
      — ingress
        — filter ip ip-filter-id
        — no filter
        — qos ingress-qos-policy-id
        — no qos

```

## VPRN Commands

Note that VPRN service commands are only applicable to the 7750 SR-Series platforms.

```

config>service>vprn service-id
  — video-interface ip-int-name [create]
  — no video-interface ip-int-name
    — [no] address ip-address/mask
    — adi
      — channel mcast-address source ip-address [channel-name channel-name]
      — no channel mcast-address source ip-address
        — description description-string
        — no description
        — scte35-action {forward | drop}
        — zone-channel mcast-address source ip-address adi-channel-name channel-name
        — no zone-channel mcast-address source ip-address
      — scte30
        — [no] ad-server ip-address
        — local-address control ip-address data ip-address
        — no local-address
      — [no] shutdown
    — description description-string
    — no description
    — multicast-service service-id
    — no multicast-service
    — rt-client-src-address ip-address
    — no rt-client-src-address
    — [no] shutdown
    — video-sap video-group-id
    — no video-sap
      — egress
        — filter ip ip-filter-id
        — no filter
        — qos egress-qos-policy-id
        — no qos
      — ingress
        — filter ip ip-filter-id
        — no filter
        — qos ingress-qos-policy-id
        — no qos

```



## Show Commands

```

show
  — isa
    — video-group [video-group-id]

show
  — video
    — adi [service service-id] [interface ip-int-name] [address mcast-address] [source ip-address]
      [detail]
        — channel [service service-id] [interface ip-int-name] [address mcast-address]
          [source ip-address] [summary|detail] [pid|config] [analyzer [interval time-inter-
            val]]]
        — session [service service-id] [interface ip-int-name] [address mcast-address] [source
          ip-address]
        — splice-status [service service-id] [interface ip-int-name] [address mcast-address]
          [source ip-address] [start-time start-time] [interval time-interval]
    — channel [service service-id] [interface ip-int-name] [address mcast-address] [source ip-
      address] [summary | detail]
    — interface [service service-id] [interface ip-int-name] [stats {rt-server | fcc-server}]
    — interface [service service-id] [interface ip-int-name] summary
    — rtp-session [service service-id] [source ip-address] [detail [stats {rt-server | fcc-server}]
    — rtp-session [service service-id] summary

```

## Clear Commands

```

clear
  — video
    — id service-id
      — session all
      — session client srcAddr
    — statistics
      — id service-id
        — adi-session
        — channel all [rt-client] [rt-server] [fcc-server] [ad-insert]
        — channel grp-address [source srcAddr] [rt-client] [rt-server] [fcc-server]
          [ad-insert]
        — interface ip-int-name [address ip-address] [rt-client] [rt-server] [fcc-
          server] [ad-insert]
        — session all [rt-server] [fcc-server]
        — session client srcAddr [rt-server] [fcc-server]
      — isa video-group-id [mda-id]

```

## Debug Commands

```
debug
  — [no] service
    — id service-id
      — [no] video-interface video-ip-int-name
      — adi [zone-channel-name]
      — no adi
      — adi-packet [zone-channel-name] [type {type-name [type-name]}all]
      — no adi-packet
      — fcc-server [client client-ip [source-port src-port]]
      — no fcc-server
      — packet-rx [client client-ip [source-port src-port]] [fcc-join] [fcc-leave] [ret-nack]
      — no packet-rx
      — packet-tx [group grp-addr [source srcAddr]] [ret-nack]
      — no packet-tx
      — rt-client [group group-addr]
      — no rt-client
      — rt-server [client client-ip [source-port src-port]]
      — no rt-server
      — sg [group grp-addr [source src-addr]]
      — no sg
```