
Show Commands

video-group

- Syntax** `video-group [video-group-id]`
- Context** `show>isa`
- Description** This command displays ISA IPsec group information
- Parameters** *ipsec-aa-group-id* — Specifies the ISA video group ID.

Sample Output

```
A:SR-7/Dut-C# show isa video-group
=====
ISA Video Group
=====
Video Group Id      : 1           Admin State      : Up
Oper State         : Up           RT Server State  : Enabled
FCC Server State   : Disabled    ADI State       : Disabled
RT Resv Bandwidth(Mbps) : 0       ADI State       : Disabled

MDA                : 2/1         Channels        : 2
Admin State        : Up           Oper State      : Up
Used Cache (bytes) : 586622      Available Cache (bytes): 1869186816
Mem alloc failures : 0           Dropped pkts (denting) : 0
Failed Chnl Allocs : 0           Egress Bandwidth excee*: 0
Bandwidth in use(kbps) : 0       Peak Bandwidth(kbps) : 200
Egress stream resets : 0       Ingress stream resets : 53
Ad stream resets   : 0           Ad stream aborts   : 0
SSRC collisions    : 0           Received data packets : 4521
Received data octets : 6284714   Rx data packet errors : 0
Transmitted data packets: 1183     Transmitted data octets: 1646212
Tx data packet errors : 0       Tx lost data packets : 47
Active RTCP sessions : 1       Requested RTP Packets : 968
RTCP Parse Errors   : 0       RTCP Config Errors   : 0
RTCP IPC Errors     : 0       RTCP SG Errors       : 0
RTCP Subscriber Errors : 0     RTCP Interface Errors : 0
Total RET BW (Kbps) : 0           Max. RET BW (Kbps)   : 100
Total FCC BW (Kbps) : 0           Drop Count for FCC   : 0
Mcast RET Req for RTCP : 0       Mcast RET Req for RUDP : 0
Mcast RET Created   : 0           Mcast RET Req Quenched : 0
HighPkt pool limit hit : 0
Pkts Lost (2-10)    : 24         Pkts Lost (11-20)    : 48
Pkts Lost (21-30)  : 0           Pkts Lost (31-40)    : 0
Pkts Lost ( >40)   : 0

-----
Video-groups : 1
=====
* indicates that the corresponding row element may have been truncated.
A:SR-7/Dut-C#
```

adi

Syntax **adi** [**service** *service-id*] [**interface** *ip-int-name*] [**address** *mcast-address*] [**source** *ip-address*] [**detail**]

Context show>video

Description This command displays ad insertion channel information.

Parameters **service** *service-id* — Displays information pertaining to the specified service ID.

Values 1 — 2147483648
svc-name — a string up to 64 characters in length.

interface *ip-int-name* — Displays information pertaining to the specified interface.

address *mcast-address* — Displays information pertaining to the specified multicast channel address.

source *ip-address* — Displays information pertaining to the source IP address.

detail — The output displays detailed information.

channel

Syntax **channel** [**service** *service-id*] [**interface** *ip-int-name*] [**address** *mcast-address*] [**source** *ip-address*] [**summary|detail**] [**pid|config**] [**analyzer**[**interval** *time-interval*]]]

Context show>video
show>video>adi

Description This command displays video channel information.

Parameters **service** *service-id* — Displays video channel information pertaining to the specified service ID.

Values service-id: 1 — 214748364
svc-name: A string up to 64 characters in length.
router-name: Base, management, vpls-management

Default Base

interface *ip-int-name* — Displays video channel information pertaining to the specified interface.

address *mcast-address* — Displays video channel information pertaining to the specified multicast channel address.

source *ip-address* — Displays video channel information pertaining to the source IP address.

summary — The output displays summarized video channel information.

detail — The output displays detailed video channel information.

Sample Output

```
*A:SR-7/Dut-C# show video channel analyzer
=====
Video channel analyzer summary
```

```

=====
Channel number : 1
-----
Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address   : 20.20.13.2
MDI Delay Factor : N/A                MDI Loss Rate    : N/A
Good Secs      : 1
-----

Channel number : 2
-----
Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
MDI Delay Factor : N/A                MDI Loss Rate    : N/A
Good Secs      : 2
-----

Number of channels : 2
=====
*A:SR-7/Dut-C#

*A:SR-7/Dut-C# show video channel analyzer detail
=====
Video channel analyzer detail
=====
Channel number : 1
-----
Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address   : 20.20.13.2
MDI Delay Factor : 1                  MDI Loss Rate    : 0
Good Secs      : 17
=====

GOP Stats
=====

```

	Min	Max	Avg
GOP Length	0	0	0
Frames/Sec	0	0	0

```

=====
Frame Stats
=====

```

	I-Frame	P-Frame	B-Frame
Good	1	3	427
Bad	0	0	0

```

=====
Error Stats
=====

```

	Err Secs	Deg Secs	Imp Secs
Overall	0	0	0
PAT Rep	0	0	0
PMT Rep	0	0	0
PCR Rep	0	0	0
PAT Syntax	0		
PMT Syntax	0		
Sync Secs	0		
Sync Loss	0		
Unref PID	0		
Traffic Loss	0		

```

-----

```

Show Commands

```
Channel number : 2
-----
Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
MDI Delay Factor : 3                 MDI Loss Rate    : 0
Good Secs      : 17

=====
GOP Stats
=====
-----
Min              Max              Avg
-----
GOP Length      0                0                0
Frames/Sec      0                0                0

=====
Frame Stats
=====
-----
I-Frame         P-Frame         B-Frame
-----
Good            0                3                439
Bad            0                0                0

=====
Error Stats
=====
-----
Err Secs        Deg Secs        Imp Secs
-----
Overall         0                0                0
PAT Rep         0                0                0
PMT Rep         0                0                0
PCR Rep         0                0                0
PAT Syntax      0
PMT Syntax      0
Sync Secs       0
Sync Loss       0
Unref PID       0
Traffic Loss    0

-----
Number of channels : 2
=====
*A:SR-7/Dut-C#

*A:SR-7/Dut-C# show video channel analyzer address 235.5.5.6 source 20.20.13.2 inter-
face video-300 detail
=====
Video channel analyzer detail
=====
Channel number : 1
-----
Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address   : 20.20.13.2
MDI Delay Factor : 1                 MDI Loss Rate    : 0
Good Secs      : 39

=====
GOP Stats
=====
-----
Min              Max              Avg
-----
```

GOP Length	1	1	1
Frames/Sec	0	0	0

=====
Frame Stats
=====

	I-Frame	P-Frame	B-Frame
Good	1	8	1155
Bad	0	0	0

=====
Error Stats
=====

	Err Secs	Deg Secs	Imp Secs
Overall	0	0	2
PAT Rep	0	0	0
PMT Rep	0	0	0
PCR Rep	0	0	0
PAT Syntax	0		
PMT Syntax	0		
Sync Secs	2		
Sync Loss	0		
Unref PID	0		
Traffic Loss	0		

Number of channels : 1
=====

*A:SR-7/Dut-C#

*A:SR-7/Dut-C# show video channel pid
=====

Video Channel PID
=====

Service Id	: 300	Interface Name	: video-300
Group Address	: 235.5.5.6	Source Address	: 20.20.13.2
PID	: 0	PID Type	: pat
MPEG Stream Type	: 0	Is PCR PID	: No
Cc Err Secs	: 0	TEI Err Secs	: 0
Absent Err Secs	: 0	PID Bitrate	: 0

Service Id	: 300	Interface Name	: video-300
Group Address	: 235.5.5.6	Source Address	: 20.20.13.2
PID	: 110	PID Type	: pmt
MPEG Stream Type	: 0	Is PCR PID	: No
Cc Err Secs	: 0	TEI Err Secs	: 0
Absent Err Secs	: 0	PID Bitrate	: 0

Service Id	: 300	Interface Name	: video-300
Group Address	: 235.5.5.6	Source Address	: 20.20.13.2
PID	: 4096	PID Type	: video
MPEG Stream Type	: 2	Is PCR PID	: Yes
Cc Err Secs	: 2	TEI Err Secs	: 0
Absent Err Secs	: 0	PID Bitrate	: 18530784

Service Id : 300 Interface Name : video-300

Show Commands

```
Group Address : 235.5.5.6          Source Address : 20.20.13.2
PID           : 4097                PID Type      : audio
MPEG Stream Type : 129              Is PCR PID   : No
Cc Err Secs   : 0                   TEI Err Secs : 0
Absent Err Secs : 0                  PID Bitrate  : 231616
```

```
-----
Service Id    : 300                  Interface Name : video-300
Group Address : 235.5.5.6            Source Address : 192.168.2.1
PID           : 0                    PID Type      : pat
MPEG Stream Type : 0                 Is PCR PID   : No
Cc Err Secs   : 0                   TEI Err Secs : 0
Absent Err Secs : 0                  PID Bitrate  : 0
```

```
-----
Service Id    : 300                  Interface Name : video-300
Group Address : 235.5.5.6            Source Address : 192.168.2.1
PID           : 110                  PID Type      : pmt
MPEG Stream Type : 0                 Is PCR PID   : No
Cc Err Secs   : 0                   TEI Err Secs : 0
Absent Err Secs : 0                  PID Bitrate  : 0
```

```
-----
Service Id    : 300                  Interface Name : video-300
Group Address : 235.5.5.6            Source Address : 192.168.2.1
PID           : 4096                 PID Type      : video
MPEG Stream Type : 2                 Is PCR PID   : Yes
Cc Err Secs   : 2                   TEI Err Secs : 0
Absent Err Secs : 0                  PID Bitrate  : 18535296
```

```
-----
Service Id    : 300                  Interface Name : video-300
Group Address : 235.5.5.6            Source Address : 192.168.2.1
PID           : 4097                 PID Type      : audio
MPEG Stream Type : 129              Is PCR PID   : No
Cc Err Secs   : 0                   TEI Err Secs : 0
Absent Err Secs : 0                  PID Bitrate  : 231616
```

```
=====
*A:SR-7/Dut-C#
```

```
*A:SR-7/Dut-C# show video channel config
```

```
=====
Video channel config
```

```
=====
Service Id    : 300                  Interface Name : video-300
Group Address : 235.5.5.6            Source Address : 20.20.13.2
Analyzer State : Enabled              Cc Error      : Enabled
PAT Rep Err   : Enabled              TNC PAT Rep   : 200
QOS PAT Rep   : 400                  POA PAT Rep   : 600
PAT Syntax    : Enabled              PCR Rep Err   : Enabled
TNC PCR Rep   : 200                  QOS PCR Rep   : 400
POA PCR Rep   : 600                  Vid PID Absent : 1000
PID PMT Unref : Enabled              PMT Rep Err Secs : Enabled
TNC PMT Rep   : 400                  QOS PMT Rep   : 800
POA PMT Rep   : 2000                 PMT Syntax    : Enabled
SCTE35 Err Secs : Enabled            TEI Err Secs  : Enabled
TS Sync Loss  : Enabled              Non-Vid Pid Abse*: 1000
```

```

Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address  : 192.168.2.1
Analyzer State  : Enabled            Cc Error        : Enabled
PAT Rep Err    : Enabled            TNC PAT Rep     : 200
QOS PAT Rep    : 400                POA PAT Rep     : 600
PAT Syntax     : Enabled            PCR Rep Err     : Enabled
TNC PCR Rep    : 200                QOS PCR Rep     : 400
POA PCR Rep    : 600                Vid PID Absent  : 1000
PID PMT Unref  : Enabled            PMT Rep Err Secs : Enabled
TNC PMT Rep    : 400                QOS PMT Rep     : 800
POA PMT Rep    : 2000              PMT Syntax      : Enabled
SCTE35 Err Secs : Enabled          TEI Err Secs    : Enabled
TS Sync Loss   : Enabled            Non-Vid Pid Abse*: 1000

```

Number of channels : 2
=====

* indicates that the corresponding row element may have been truncated.
*A:SR-7/Dut-C#

*A:SR-7/Dut-C# show video channel analyzer
=====

Video channel analyzer summary
=====

Channel number : 1

```

Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address  : 20.20.0.1
MDI Delay Factor : 1                 MDI Loss Rate   : 0
Good Secs      : 68

```

Channel number : 2

```

Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address  : 192.168.2.1
MDI Delay Factor : 2                 MDI Loss Rate   : 0
Good Secs      : 68

```

Channel number : 3

```

Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address  : 192.168.2.1
MDI Delay Factor : 3                 MDI Loss Rate   : 0
Good Secs      : 69

```

Number of channels : 3
=====

A:SR-7/Dut-C#

*A:SR-7/Dut-C# show video channel pid
=====

Video Channel PID
=====

```

Service Id      : 300                Interface Name   : video-300
Group Address   : 235.5.5.6          Source Address  : 20.20.0.1
PID             : 0                 PID Type        : pat

```

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```
MPEG Stream Type : 0          Is PCR PID      : No
Cc Err Secs      : 8          TEI Err Secs   : 0
Absent Err Secs  : 0          PID Bitrate    : 0
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 20.20.0.1
PID             : 110        PID Type       : pmt
MPEG Stream Type : 0          Is PCR PID     : No
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 0
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 20.20.0.1
PID             : 4096       PID Type       : video
MPEG Stream Type : 2          Is PCR PID     : Yes
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 18538304
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 20.20.0.1
PID             : 4097       PID Type       : audio
MPEG Stream Type : 129       Is PCR PID     : No
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 231616
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 192.168.2.1
PID             : 0          PID Type       : pat
MPEG Stream Type : 0          Is PCR PID     : No
Cc Err Secs     : 8          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 0
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 192.168.2.1
PID             : 110        PID Type       : pmt
MPEG Stream Type : 0          Is PCR PID     : No
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 0
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 192.168.2.1
PID             : 4096       PID Type       : video
MPEG Stream Type : 2          Is PCR PID     : Yes
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 18539808
```

```
-----
Service Id       : 300        Interface Name  : video-300
Group Address    : 235.5.5.6  Source Address  : 192.168.2.1
PID             : 4097       PID Type       : audio
MPEG Stream Type : 129       Is PCR PID     : No
Cc Err Secs     : 0          TEI Err Secs   : 0
Absent Err Secs : 0          PID Bitrate    : 231616
```



```

-----
Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
PID            : 110                PID Type        : pmt
MPEG Stream Type : 0                Is PCR PID      : No
Cc Err Secs    : 0                 TEI Err Secs    : 0
Absent Err Secs : 0                 PID Bitrate     : 0
-----

```

```

-----
Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
PID            : 4096               PID Type        : video
MPEG Stream Type : 2                Is PCR PID      : Yes
Cc Err Secs    : 0                 TEI Err Secs    : 0
Absent Err Secs : 0                 PID Bitrate     : 18529280
-----

```

```

-----
Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
PID            : 4097               PID Type        : audio
MPEG Stream Type : 129              Is PCR PID      : No
Cc Err Secs    : 0                 TEI Err Secs    : 0
Absent Err Secs : 0                 PID Bitrate     : 231616
-----

```

```

=====
*A:SR-7/Dut-C#

```

```

*A:SR-7/Dut-C>config>isa# show video channel config interface "video-300-S"

```

```

=====
Video channel config
=====

```

```

Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
Analyzer State  : Enabled            Cc Error        : Enabled
PAT Rep Err     : Enabled            TNC PAT Rep     : 400
QOS PAT Rep     : 600               POA PAT Rep     : 700
PAT Syntax      : Enabled            PCR Rep Err     : Enabled
TNC PCR Rep     : 400               QOS PCR Rep     : 600
POA PCR Rep     : 700               Vid PID Absent  : 5000
PID PMT Unref   : Enabled            PMT Rep Err Secs : Enabled
TNC PMT Rep     : 2300              QOS PMT Rep     : 2500
POA PMT Rep     : 2700              PMT Syntax      : Enabled
SCTE35 Err Secs : Enabled            TEI Err Secs    : Enabled
TS Sync Loss    : Enabled            Non-Vid Pid Abse*: 5000
-----

```

```

Number of channels : 1
=====

```

```

* indicates that the corresponding row element may have been truncated.

```

```

*A:SR-7/Dut-C>config>isa#

```

```

*A:SR-7/Dut-C# show video channel pid interface video-300-S address 235.5.5.6 source
192.168.2.1

```

```

=====
Video Channel PID
=====

```

```

Service Id      : 300                Interface Name   : video-300-S
Group Address   : 235.5.5.6          Source Address   : 192.168.2.1
PID            : 0                  PID Type        : pat
-----

```

Show Commands

```

MPEG Stream Type : 0           Is PCR PID       : No
Cc Err Secs      : 0           TEI Err Secs    : 0
Absent Err Secs  : 0           PID Bitrate     : 0
-----
Service Id       : 300         Interface Name   : video-300-S
Group Address    : 235.5.5.6   Source Address   : 192.168.2.1
PID              : 110        PID Type        : pmt
MPEG Stream Type : 0           Is PCR PID     : No
Cc Err Secs     : 0           TEI Err Secs   : 0
Absent Err Secs  : 0           PID Bitrate    : 0
-----
Service Id       : 300         Interface Name   : video-300-S
Group Address    : 235.5.5.6   Source Address   : 192.168.2.1
PID              : 4096       PID Type        : video
MPEG Stream Type : 2           Is PCR PID     : Yes
Cc Err Secs     : 0           TEI Err Secs   : 0
Absent Err Secs  : 84         PID Bitrate    : 0
-----
Service Id       : 300         Interface Name   : video-300-S
Group Address    : 235.5.5.6   Source Address   : 192.168.2.1
PID              : 4097       PID Type        : audio
MPEG Stream Type : 129        Is PCR PID     : No
Cc Err Secs     : 0           TEI Err Secs   : 0
Absent Err Secs  : 84         PID Bitrate    : 0
=====
*A:SR-7/Dut-C#

```

```
*B:IPTV-SR7# show video adi channel
```

```

=====
Adi Channel Info
=====
SvcId      Interface Name  Group Address  Source Address  Channel Name
-----
100        video-100        234.4.5.228   195.168.9.10   228
100        video-100        234.4.5.240   195.168.9.10   240
100        video-100        234.4.5.241   195.168.9.10   241
...
=====
*B:IPTV-SR7#

```

```
*A:Dut-C# show video channel
```

```

=====
Video channel
=====
Service Id  Group Address  Stream  SSRCId      RxPackets  TxPackets
Interface   Source Address  GrpId   Src/DstPrt  RxBytes    TxBytes
-----
1           234.0.0.1     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0
1           234.0.0.2     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0
1           234.0.0.3     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0
1           234.0.0.4     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0
1           234.0.0.5     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0
1           234.0.0.6     Network 0           0           0
vi          1.0.102.102   1       33333/40005 0           0

```

```

1          234.0.0.7          Network 0          0          0
vi         1.0.102.102       1          33333/40005 0          0
1          234.0.0.8          Network 0          0          0
...
1          234.0.0.249        Network 0          0          0
vi         1.0.102.102       1          33333/40005 0          0
1          234.0.0.250        Network 0          0          0
vi         1.0.102.102       1          33333/40005 0          0
-----
Number of channels : 250
=====
*A:Dut-C#

*A:Dut-C# show video channel detail
=====
Video channel detail
=====
Service Id      : 1
Interface Name  : vi
Group Address   : 234.0.0.1
Source Address  : 1.0.102.102
SSRC Id (hex)  : ea000001          Group Id      : 1
UDP Source Port : 33333          UDP Dest Port : 40005
Stream Type    : Network        Up Time       : 0d 00:01:54
Admin Buffer    : 1000          Oper Buffer    : 0
Admin Bandwidth : 3300          Received Bytes : 44107480
Received Pkts  : 31732         Rx Invalid Pkts : 0
Tx Bytes       : 0             Tx Packets     : 0
Tx Failed Pkts : 0

RTClnt AdmState : Up          RT Server Port : 4098
RT Server Address: 4.4.4.4     Received Pkts  : 0
Received Bytes  : 0           Tx Repeat RTReq : 0
Tx RT Req      : 0           Failed RT Req   : 0
Gaps detected  : 0

Local RT Server Admin State : Up
RTP Pkts Req   : 0           Rcvd RT Req    : 0
Failed RT Req  : 0           Trans RT Replies : 0
Transmittd Bytes : 0         Tx Packets     : 0

FCC Svr AdmState : Up          FCC Svr Chl Type : HD
Rx FCC Requests : 449         Failed FCC Req   : 0
Tx FCC Replies  : 449         Tx Bytes         : 17054546
Tx Packets      : 295583
-----
*A:Dut-C#

```

interface

- Syntax** **interface** [**service** *service-id*] [**interface** *ip-int-name*] [**stats** {**rt-server** | **fcc-server**}]
- Context** show>video
- Description** This command displays video interface information.
- Parameters** **service** *service-id* — Displays video interface information pertaining to the specified service ID.

Show Commands

Values 1 — 2147483648
svc-name — a string up to 64 characters in length.

interface *ip-int-name* — Displays video interface information pertaining to the specified interface.

stats — Displays video interface statistics.

Values **rt-server** — Displays video interface statistics for the RET server.
fcc-server — Displays video interface statistics for the FCC server.

Sample Output

```
*A:Dut-C# show video interface
=====
Video interface
=====
Service Id      : 1
Name           : vi
Admin/Oper State : Up/Up                If Index      : 0
Video Group Id  : 1                  Sap Id       : lag-201:5
Sessions        : 2000                Mcast Protocol : PIM

Address         : 3.3.3.3/32
Tx Failed Pkts : 0
SCTE30 TCP sess : 0                  SCTE30 INIT sess : 0
SD RT Svr State : Enabled
SD RT Requests  : 0                  SD Failed Req   : 0
SD RTP Pkts Req : 0                  SD RT Replies   : 0
Tx SD Bytes     : 0                  Tx SD Packets   : 0
HD RT Svr State : Enabled
HD RT Requests  : 0                  HD Failed Req   : 0
HD RTP Pkts Req : 0                  HD RT Replies   : 0
Tx HD Bytes     : 0                  Tx HD Packets   : 0
PIP RT Svr State : Enabled
PIP RT Requests  : 0                  PIP Failed Req  : 0
PIP RTP Pkts Req : 0                  PIP RT Replies  : 0
Tx PIP Bytes    : 0                  Tx PIP Packets  : 0
SD FCC Svr State : Enabled
SD FCC Requests  : 0                  SD FCC Svr Mode : Burst
Tx SD Bytes     : 0                  SD Failed Req   : 0
SD FCC Replies  : 0                  Tx SD Packets   : 0
HD FCC Svr State : Enabled
HD FCC Requests  : 448820             HD FCC Svr Mode : Burst
Tx HD Bytes     : 17150845788         HD Failed Req   : 0
HD FCC Replies  : 448820             Tx HD Packets   : 293148098
PIP FCCSvr State : Enabled
PIP FCC Requests  : 0                  PIP FCC Svr Mode : Burst
Tx PIP Bytes    : 0                  PIP Failed Req  : 0
PIP FCC Replies  : 0                  Tx PIP Pkts    : 0

-----
Interfaces : 1
=====
*A:Dut-C#
```

session

- Syntax** `session [service service-id] [interface ip-int-name] [address mcast-address] [source ip-address]`
- Context** `show>video>adi`
- Description** This command displays ADI video session information.
- Parameters** `service service-id` — Displays video session information pertaining to the specified service ID.
- Values** 1 — 2147483648
svc-name — a string up to 64 characters in length.
- `interface ip-int-name` — Displays session information for the specified interface.
- `address mcast-address` — Displays session information for the specified multicast address.
- `source ip-address` — Displays session information for the specified IP address.

Sample Output

```
*B:IPTV-SR7# show video adi session
=====
Adi Session
=====
Service Id       : 100                Interface Name    : video-100
Group Address    : 234.4.5.241         Source Address   : 100.100.100.1
Ad Server Addr   : 10.200.14.2        Up Time          : 0d 13:30:02
Init Requests    : 1                  Succ/Unsucc Resp : 1/0
Alive Requests   : 0                  Succ/Unsucc Resp : 0/0
Cue Requests     : 0                  Succ/Unsucc Resp : 0/0
Abort Requests   : 0                  Succ/Unsucc Resp : 0/0
Splice Requests  : 910                Succ/Unsucc Resp : 906/4
Successful splice-in complete responses : 902
Successful splice-out complete responses : 894
Unsuccessful splice-out complete responses : 11
Invalid SCTE30 R* : 0
-----
Number of adi sessions : 1
=====
*B:IPTV-SR7#
```

splice-status

- Syntax** `splice-status [service service-id] [interface ip-int-name][address mcast-address] [source ip-address] [start-time start-time [interval time-interval]]`
- Context** `show>video>adi`
- Description** This command displays ADI slice information.
- `service service-id` — Displays splice status information pertaining to the specified service ID.
- Values** 1 — 2147483648
svc-name — a string up to 64 characters in length.

interface *ip-int-name* — Displays splice status information for the specified interface.
address *mcast-address* — Displays splice status information for the specified multicast address.
source *ip-address* — Displays splice status information for the specified IP address.

start-time *start-time* — Enter the start time.

Values 1 — 4294967295 minutes earlier

interval *time-interval* — Enter the interval time.

Values 1 — 4294967295 minutes

Sample Output

```
*B:IPTV-SR7# show video adi splice-status
=====
Adi Splice Status
=====
Service Id       : 100                Interface Name   : video-100
Group Address    : 234.4.5.241          Source Address  : 100.100.100.1
Start Time      : 07/17/2009 10:19:14 Ad Server Addr  : 10.200.14.2
Status          : Complete             Rate            : 8936 kbps
Duration Req    : 30 sec               Duration Played  : 29 sec
Session Id      : 1                   Prior Session Id : 4294967295
SpliceIn SeqNum : 378                 SpliceOut SeqNum : 29727
Abort Reason    : None                Black Frames    : 0
First black frame PTS : 1530
Max Ad Stream PTS : 0
Min Network Stream PTS : 0
-----
Service Id       : 100                Interface Name   : video-100
Group Address    : 234.4.5.241          Source Address  : 100.100.100.1
Start Time      : 07/17/2009 10:19:44 Ad Server Addr  : 10.200.14.2
Status          : Complete             Rate            : 0 kbps
Duration Req    : 30 sec               Duration Played  : 0 sec
Session Id      : 2                   Prior Session Id : 1
SpliceIn SeqNum : 29727               SpliceOut SeqNum : 0
Abort Reason    : Session incomplete   Black Frames    : 0
First black frame PTS : 1530
Max Ad Stream PTS : 0
Min Network Stream PTS : 0
-----
*B:IPTV-SR7#
```

rtp-session

- Syntax** **rtp-session** [**service** *service-id*] [**source** *ip-address*] [**detail** [**stats** {**rt-server** | **fcc-server**}]]
rtp-session [**service** *service-id*] **summary**
- Context** show>video
- Description** This command displays video session information.
- Parameters** **service** *service-id* — Displays video session information pertaining to the specified service ID.

Values 1 — 2147483648
 svc-name — a string up to 64 characters in length.

source ip-address — Displays session information for the specified IP address.

detail — The output displays detailed video session information.

stats — Displays video session statistics.

Values **rt-server** — Displays video session statistics for the RT server.
fcc-server — Displays video session statistics for the FCC server.

summary — The output displays summarized video session information.

Sample Output

```
*A:Dut-C# show video rtp-session
=====
Video RTP session
=====
Service Id      Source address  SSRC Id (hex)  RT reqs      FCC reqs
Interface      Source Port    Time to expire RT replies   FCC replies
-----
1              1.0.103.103    1              0            226
vi            1000           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1001           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1002           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1003           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1004           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1005           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1006           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1007           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1008           0d 00:03:24   0            225
1              1.0.103.103    1              0            226
vi            1009           0d 00:03:24   0            225
-----
Number of RTP sessions : 10
=====
*A:Dut-C#

*A:Dut-C# show video rtp-session summary
=====
Video RTP session summary
=====
Num Sessions      : 2000
Rx RT Requests    : 0
Tx RT Replies     : 0
Tx RT Packets     : 0
Tx RT Octets      : 0
Rx FCC Requests   : 371068
Tx FCC Packets    : 243011904
Tx FCC Replies    : 368259
Tx FCC Octets     : 14152149376
-----
Interfaces : 1
```

Show Commands

```
=====
*A:Dut-C#

*A:Dut-C# show video rtp-session detail
=====
Video RTP session detail
=====
Service Id      : 1
Interface       : vi
Source Address  : 1.0.103.103          Source Port     : 1000

Destination Addr : 3.3.3.3             SSRC Id (hex)   : 1
CName           : ixiaPort
Up Time         : 0d 00:07:08         Time to Expire  : 0d 00:04:59

Num RT Requests : 0                  Num RT Replies  : 0
RT Packets Sent : 0                  RT Octets Sent  : 0
RT Failed Pkts  : 0                  Req RTP Packets : 0

Num FCC Requests : 212                Num FCC Replies : 211
FCC Packets Sent : 138582             FCC Octets Sent : 8145140
FCC Failed Pkts  : 1

-----
*A:Dut-C#
```

Clear Commands

id

Syntax	id <i>service-id</i>
Context	clear>video
Description	This command clears video information pertaining to the specified service ID.
Parameters	service <i>service-id</i> — Specifies the service ID to clear.
Values	1 — 2147483648 svc-name — a string up to 64 characters in length.

session

Syntax	session all session client <i>srcAddr</i>
Context	clear>videoid
Description	This command clears session information.
Parameters	all — Clears all sessions. client <i>srcAddr</i> — Clears information for the client source address.

statistics

Syntax	statistics
Context	clear>video
Description	This command clears video related statistics.

id

Syntax	id <i>service-id</i>
Context	clear>video>statistics
Description	This command clears video statistics for a particular service.
Parameters	service <i>service-id</i> — Specifies the service ID to clear statistics.
Values	1 — 2147483648 svc-name — a string up to 64 characters in length.

Clear Commands

adi-session

Syntax	adi-session
Context	clear>video>statistics>id
Description	This command clears video statistics for an ADI session.

channel

Syntax	channel all [rt-client] [rt-server] [fcc-server] [ad-insert] channel grp-address [source srcAddr] [rt-client] [rt-server] [fcc-server] [ad-insert]
Context	clear>video>statistics>id
Description	This command clears video statistics for a particular channel.
Parameters	all — Clears statistics for all channels. rt-client — Clears all RET client related statistics. rt-server — Clears all RET server related statistics. fcc-server — Clears all FCC server related statistics. ad-insert — Clears all ad insert related statistics. <i>grp-address</i> — Clears statistics for the specified channel group address. source srcAddr — Clears statistics for the specified source address.

interface

Syntax	interface ip-int-name [address ip-address] rt-client] [rt-server] [fcc-server] [ad-insert]
Context	clear>video>statistics>id
Description	This command clears video statistics for a particular channel.
Parameters	<i>ip-int-name</i> — Clears statistics for the specified interface. address ip-address — Clears statistics for the specified IP address. rt-client — Clears all RET client related statistics. rt-server — Clears all RET server related statistics. fcc-server — Clears all FCC server related statistics. ad-insert — Clears all ad insert related statistics. <i>grp-address</i> — Clears statistics for the specified channel group address. source srcAddr — Clears statistics for the specified source address.

session

Syntax	session all [rt-server] [fcc-server] session client <i>srcAddr</i> [rt-server] [fcc-server]
Context	clear>video>statistics>id
Description	This command clears video statistics for a particular channel.
Parameters	all — Clears statistics for all sessions. rt-server — Clears all RET server related statistics. fcc-server — Clears all FCC server related statistics. client <i>srcAddr</i> — Clears statistics for the specified source address.

isa

Syntax	isa <i>video-group-id</i> [<i>mda-id</i>]
Context	clear>video>statistics
Description	.This command clears statistics for a particular ISA video group.
Parameters	<i>video-group-id</i> — statistics for a particular ISA video group a video group ID. Values 1 — 4 <i>mda-id</i> — Specifies the card/slot identifying a provisioned ISA. Values mda-id: slot/mda slot: 1 — 10 (depending on the chassis model) mda: 1 — 2

Debug Commands

video-interface

Syntax	[no] video-interface <i>video-ip-int-name</i>
Context	debug>service>id
Description	This command enables debugging for video interfaces. The no form of the command disables the video interface debugging.
Parameters	<i>video-ip-int-name</i> — Specifies the video interface name.

adi

Syntax	adi [<i>zone-channel-name</i>] no adi
Context	debug>service>id>video-interface
Description	This command enables debugging for the ad insert server.
Parameters	<i>zone-channel-name</i> — Specifies the channel name up to 32 characters in length.

adi-packet

Syntax	adi-packet [<i>zone-channel-name</i>] [type { <i>type-name</i> [<i>type-name</i>]} all] no adi-packet
Context	debug>service>id>video-interface
Description	This command enables debugging for ADI packets exchanged between the splicer and the ad-server over scte30 session(s)
Parameters	<i>zone-channel-name</i> — Specifies the channel name up to 32 characters in length. type <i>type-name</i> — Specifies the ADI packet type. Values alive, abort, init, splice, cue, all

Sample Output

```
A:IPTV-SR7# debug service id 100 video-interface video-100 adi-packet 240-1 type init
A:IPTV-SR7# show debug
debug
  service id 100
    video-interface video-100
      adi-packet 240-1 type init
```

```

        exit
    exit
exit
A:IPTV-SR7# debug service id 100 video-interface video-100 adi-packet 240-1 type
alive
A:IPTV-SR7# show debug
debug
    service id 100
        video-interface video-100
            adi-packet 240-1 type alive
        exit
    exit
exit

```

fcc-server

- Syntax** **fcc-server** [*client client-ip* [*source-port src-port*]]
no fcc-server
- Context** debug>service>id>video-interface
- Description** This command enables debugging the FCC server.
- Parameters** **client** *client-ip* — Specifies the client IP address.
source-port *src-port* — Specifies the source port's IP address.

packet-rx

- Syntax** **packet-rx** [*client client-ip* [*source-port src-port*]] [**fcc-join**] [**fcc-leave**] [**ret-nack**]
no packet-rx
- Context** debug>service>id>video-interface
- Description** This command enables debugging of received RTCP messages. The options for this command allow the user to filter only certain types of messages to appear in the debug traces.
- Parameters** **client** *client-ip* — Specifies the client IP address.
source-port *src-port* — Specifies the source port's IP address.
fcc-join — Enables debugging for FCC joins.
fcc-leave — Enables debugging for FCC leaves.
ret-nack — Enables debugging for retransmission nack packets.

packet-tx

- Syntax** **packet-tx** [*group grp-addr* [*source srcAddr*]] [**ret-nack**]
no packet-tx
- Context** debug>service>id>video-interface

Debug Commands

Description This command enables debugging transmitted RTCP packets.

Parameters **client** *client-ip* — Specifies the client IP address.
source *src-srcAddr* — Specifies the source port.

Values 1 — 65535

rt-client

Syntax **rt-client** [**group** *group-addr*]
no rt-client

Context debug>service>id>video-interface

Description This command enables debugging the RET client.

Parameters **group** *group-addr* — Specifies the multicast group address.

rt-server

Syntax **rt-server** [**client** *client-ip* [**source-port** *src-port*]]
no rt-server

Context debug>service>id>video-interface

Description This command enables debugging for the RET server.

Parameters **client** *client-ip* — Specifies the client IP address.
source *src-srcAddr* — Specifies the source port.

Values 1 — 65535

sg

Syntax **sg** [**group** *grp-addr* [**source** *src-addr*]]
no sg

Context debug>service>id>video-interface

Description This command enables channel debugging.

Parameters **group** *grp-addr* — Specifies the multicast channel address.
source *src-addr* — Specifies the source address.