

## Show Commands

### video-group

<b>Syntax</b>	<b>video-group</b> [ <i>video-group-id</i> ]
<b>Context</b>	show>isa
<b>Description</b>	This command displays ISA IPsec group information
<b>Parameters</b>	<i>ipsec-aa-group-id</i> — 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.

## Show Commands

**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
Rx FCC Requests   : 371068
Tx FCC Replies    : 368259
Tx RT Packets     : 0
Tx RT Octets      : 0
Tx FCC Packets    : 243011904
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

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

### session

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

### statistics

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

### id

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

## adi-session

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

## channel

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

## interface

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

## session

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

## isa

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

---

## Debug Commands

### video-interface

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

### adi

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

### adi-packet

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