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show mrcp client session active

To display information about active Media Resource Control Protocol (MRCP) client sessions, use the **show mrcp client session active**command in privileged EXEC mode.

show mrcp client session active [detailed]

Syntax Description	detailed	(Optional) Disp active MRCP se	lays detailed information about each ession.
Command Modes	Privileged EXEC (#)		
Command History	Release	Modification	
	12.2(11)T	This command was introduced on the Cisco Cisco AS5350, and Cisco AS5400.	3640, Cisco 3660, Cisco AS5300,
	12.4(15)T	The MRCP version, ASR callid, and TTS cal output and the URL and Stream URL fields Resource Control Protocol version 2 (MRC	were modified to display Media
Usage Guidelines Examples	keyword to display add	play information about all active MRCP session ional information about the sessions. output from this command:	ons for the gateway. Use the detailed
	Router # show mrcp cl No Of Active MRCP Se Call-ID:0x Resource Type:S Method In Progress:S Resource Type:F Method In Progress:F	ient session active ssions:1 LA ynthesizer URL:rtsp://server-asr PEAK State:SPEAKING ecognizer URL:rtsp://server-asr	
	No Of Active MRCP Se Call-ID:	ient session active detailed ssions: 1 0x14 same: 0	
	Resource Type: Method In Progress: Associated CallID: C MRCP version: 2 Control Protocol: T Data Protocol: F	Synthesizer URL: sip:mrcpv2T SPEAK State: S_SYNTH_IDI <17 .0 CP Server IP Address: 10.5.18.224 Pc	TSServer@10.5.18.224 E ort: 51000 ort: 10000

```
Packets Transmitted: 0 (0 bytes)
Packets Received: 177 (28320 bytes)
ReceiveDelay: 100 LostPackets: 0
  -----
-----
   Resource Type: Recognizer URL: sip:mrcpv2ASRServer@10.5.18.224
Method In Progress: RECOGNITION-START-TIMERS
                                                  State: S RECOG RECOGNIZING
Associated CallID: 0x18
   MRCP version: 2.0
                                                   Port: 51001
Port: 10002
Control Protocol: TCP Server IP Address: 10.5.18.224
   Data Protocol: RTP Server IP Address: 10.5.18.224
Packets Transmitted: 191 (30560 bytes)
Packets Received: 0 (0 bytes)
ReceiveDelay: 100
                  LostPackets: 0
The table below describes the fields shown in this output.
```

Table 1: show mrcp (lient session active	e detailed Field Descript	tions

Field	Description		
No. Of Active MRCP Sessions	Number of MRCP sessions that are currently active between the gateway and the media server.		
Call-ID	Unique identification number for the call, in hexadecimal.		
Resource Type	Whether the media server being used is a speech synthesizer (TTS) or a speech recognizer (ASR).		
URL	URL of the media server.		
Method In Progress	Type of event that was initiated between the gateway and the media server. Values are defined by the MRCP informational RFC. For speech synthesis, values are IDLE, SPEAK, SET-PARAMS, GET-PARAMS, STOP, or BARGE-IN-OCCURRED. For speech recognition, values are DEFINE-GRAMMAR, RECOGNIZE, SET-PARAMS, GET-PARAMS, STOP, GET-RESULT, or RECOGNITION-START-TIMERS.		
State	Current state of the method in progress. Values are defined by the MRCP informational RFC. For speech synthesis, values are SYNTH_IDLE, SPEAKING, SYNTH_ASSOCIATING, PAUSED, or SYNTH_ERROR_STATE. For speech recognition, values are RECOG_IDLE, RECOG_ASSOCIATING, RECOGNIZING, RECOGNIZED, or RECOG_ERROR_STATE.		
Associated CallID	Unique identification number for the associated MRCP session, in hexadecimal.		
MRCP version	MRCP version used by the client.		

Field	Description		
Control Protocol	Call control protocol being used, which is always TCP.		
Data Protocol	Data protocol being used, which is always RTP.		
Local IP Address	IP address of the Cisco gateway that is the MRCP client. This field is not displayed for MRCP v2 sessions because the local IP address is not specified in SIP call legs.		
Local Port	Identification number of the Cisco gateway port through which the TCP connection is made. This field is not displayed for MRCP v2 sessions because the local port is not specified in SIP call legs.		
Server IP Address	IP address of the media server that is the MRCP server.		
Server Port	Identification number of the MRCP server port through which the TCP connection is made.		
Signalling URL	URL of the MRCP v2 media server.		
Stream URL	URL of the MRCP v1 media server.		
Packets Transmitted	Total number of packets that have been transmitted from the client to the ASR server.		
Packets Received	Total number of packets that have been received by the client from the TTS server.		
ReceiveDelay	Average playout FIFO delay plus the decoder delay during this voice call.		

Related Commands

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Command	Description
debug mrcp	Displays debug messages for MRCP operations.
show mrcp client session history	Displays information about past MRCP client sessions that are stored on the gateway.
show mrcp client statistics hostname	Displays statistics about MRCP sessions.

show mrcp client session history

To display information about past Media Resource Control Protocol (MRCP) client sessions that are stored on the gateway, use the **show mrcp client session history**command in privileged EXEC mode.

show mrcp client session history [detailed]

Syntax Description		(Optional) Displays detailed information about each MRCP session.
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Command Modes Privileged EXEC (#)

Command History	Release	Modification		
12.2(11)T		This command was introduced on the Cisco 3640, Cisco 3660, Cisco AS5300, Cisco AS5350, and Cisco AS5400.		
	12.4(15)T	The MRCP version field was added to the command output and the URL field was modified to display Media Resource Control Protocol version 2 (MRCP v2) format URLs.		

Usage Guidelines The maximum number of inactive MRCP sessions that are stored in history is configured by using the **mrcp client session history records** command. If the **mrcp client session history records** command is not used, the maximum number of history records that are saved is 50.

MRCP history records are stored for the length of time that is specified by the **mrcp client session history duration** command. If the **mrcp client session history duration** command is not configured, MRCP history records are stored for a maximum of 3600 seconds (1 hour).

Examples

The following is sample output from this command:

```
Router# show mrcp client session history
MRCP Session ID:0x9
Associated CallID:0x1A
Control Protocol:TCP
                         Data Protocol:RTP
Local IP Address:10.1.2.230
                                Local Port 17120
                               Server Port 4858
Server IP Address:10.1.2.58
Stream URL:rtsp://server-asr:554
Packets Transmitted:423 (101520 bytes)
Packets Received:819 (131040 bytes)
MRCP Session ID:0x8
Associated CallID:0x16
Control Protocol:TCP
                        Data Protocol:RTP
Local IP Address:10.1.2.230
                               Local Port 16948
Server IP Address:10.1.2.58
                               Server Port 4850
Stream URL:rtsp://server-asr:554
```

```
Packets Transmitted: 284 (68160 bytes)
Packets Received: 598 (95680 bytes)
MRCP Session ID:0x7
Associated CallID:0x12
Control Protocol:TCP
                         Data Protocol:RTP
Local IP Address:10.1.2.230
                                 Local Port 16686
Server IP Address:10.1.2.58
                                Server Port 4842
Stream URL:rtsp://server-asr:554
Packets Transmitted: 353 (84720 bytes)
Packets Received:716 (114560 bytes)
MRCP Session ID:0x6
Associated CallID:0xE
Control Protocol:TCP
                         Data Protocol:RTP
Local IP Address:10.1.2.230 Local Port 19398
                                Server Port 4834
Server IP Address:10.1.2.58
Stream URL:rtsp://server-asr:554
Packets Transmitted: 358 (85920 bytes)
Packets Received: 720 (115200 bytes)
The following is sample output from the show mrcp client session history detailed command:
```

```
Router# show mrcp client session history detailed
MRCP Session ID: 0x7
Associated CallID: 0x14
    MRCP version: 2.0
     _____
     Control Protocol: TCP
                             Data Protocol: RTP
    ASR (Callid = 0x18)
Server IP Address: 10.5.18.224
                                  Server Port 10002
Signalling URL: sip:mrcpv2ASRServer@10.5.18.224:5060
Packets Transmitted: 373 (59680 bytes)
Packets Received: 0 (0 bytes)
OntimeRcvPlayout: 3000
GapFillWithSilence: 0
GapFillWithPrediction: 0
GapFillWithInterpolation: 6025
GapFillWithRedundancv: 0
HighWaterPlayoutDelay: 100
LoWaterPlayoutDelay: 95
ReceiveDelay: 100
                     LostPackets: 0
EarlyPackets: 0
                   LatePackets: 0
_____
    TTS (Callid = 0x17)
Server IP Address: 10.5.18.224
                                  Server Port 10000
Signalling URL: sip:mrcpv2TTSServer@10.5.18.224:5060
Packets Transmitted: 0 (0 bytes)
Packets Received: 679 (108640 bytes)
OntimeRcvPlayout: 3000
GapFillWithSilence: 0
GapFillWithPrediction: 0
GapFillWithInterpolation: 6025
GapFillWithRedundancy: 0
HighWaterPlayoutDelay: 100
LoWaterPlayoutDelay: 95
ReceiveDelay: 100
                     LostPackets: 0
EarlyPackets: 0
                   LatePackets: 0
The table below describes the fields shown in this output.
```

Table 2: show mrcp client session history detailed Field Descriptions

Field	Description
MRCP Session ID	Unique identification number for the MRCP session, in hexadecimal.
Associated CallID	Unique identification number for the associated call, in hexadecimal.

Field	Description
MRCP version	MRCP version used by the client.
Control Protocol	Call control protocol being used, which is always TCP.
Data Protocol	Data protocol being used, which is always RTP.
ASR (Callid =)	For MRCP v2 sessions, the unique identification number for the ASR SIP call leg, in hexadecimal.
TTS (Callid =)	For MRCP v2 sessions, the unique identification number for the TTS SIP call leg, in hexadecimal.
Local IP Address	IP address of the Cisco gateway that is the MRCP client. This field is not displayed for MRCP v2 sessions because the local IP address is not specified in SIP call legs.
Local Port	Identification number of the Cisco gateway port through which the TCP connection is made. This field is not displayed for MRCP v2 sessions because the local port is not specified in SIP call legs.
Server IP Address	IP address of the media server that is the MRCP server.
Server Port	Identification number of the MRCP server port through which the TCP connection is made.
Signalling URL	URL of the MRCP v2 media server.
Stream URL	URL of the MRCP v1 media server.
Packets Transmitted	Total number of packets that have been transmitted from the client to the ASR server.
Packets Received	Total number of packets that have been received by the client from the TTS server.
OntimeRcvPlayout	Duration of voice playout from data received on time for this call. Derive the Total Voice Playout Duration for Active Voice by adding the OnTimeRcvPlayout value to the GapFill values.
GapFillWithSilence	Duration of a voice signal replaced with silence because voice data was lost or not received in time for this call.

Field	Description
GapFillWithPrediction	Duration of a voice signal played out with a signal synthesized from parameters or samples of data preceding in time because voice data was lost or not received in time from the voice gateway for this call. Examples of such pullout are frame-eraser or frame-concealment strategies in G.729 and G.723.1 compression algorithms.
GapFillWithInterpolation	Duration of a voice signal played out with a signal synthesized from parameters or samples of data preceding and following in time because voice data was lost or not received in time from the voice gateway for this call.
GapFillWithRedundancy	Duration of a voice signal played out with a signal synthesized from available redundancy parameters because voice data was lost or not received in time from the voice gateway for this call.
HighWaterPlayoutDelay	High-water mark voice playout FIFO delay during this call.
LoWaterPlayoutDelay	Low-water mark voice playout FIFO delay during this call.
ReceiveDelay	Average playout FIFO delay plus the decoder delay during this voice call.

Related Commands

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Command	Description	
debug mrcp	Displays debug messages for MRCP operations.	
mrcp client session history duration	Sets the maximum number of seconds for which MRCP history records are stored on the gateway	
mrcp client session history records	Sets the maximum number of MRCP history records that the gateway can store.	
show mrcp client session active	Displays information about active MRCP client sessions.	

show mrcp client statistics hostname

To display statistics about Media Resource Control Protocol (MRCP) sessions for a specific MRCP client host, use the **show mrcp client statistics hostname**command in privileged EXEC mode.

show mrcp client statistics hostname {hostname| ip-address}

hostname		Hostname of the MRCP server. Format uses host name only or hostname:port.		
ip-address				IP address of the MRCP server.
Privileged EXEC (#)				
Release	Modification			
12.2(11)T	This command was introduced on the Cisco 3640, Cisco 3660, Cisco AS5300, Cisco AS5350, and Cisco AS5400.			
12.4(15)T	This command was modified to display statistics about MRCP version 2 (MRCP v2) sessions.			
		-		use the mrcp client statistics enable command.
Router# show mrcp client statistics hostname asr-host				
SPEAK RECOG-TIME SPEAK-TIME	:6 :3 :6			
	ip-address Privileged EXEC (#) Release 12.2(11)T 12.4(15)T To display output from this c The following is sample output Router# show mrcp client hostname:asr-host Method RECOGNIZE DEFINE-GRAMMAR RECOG-TIME SPEAK RECOG-TIME	ip-address Privileged EXEC (#) Release Modific 12.2(11)T This conciseo A 12.4(15)T This conciseo A 12.4(15)T This concommand, f To display output from this command, f The following is sample output from the Router# show mrcp client statistic hostname:asr-host Method : Count RECOGNIZE : 3 DEFINE-GRAMMAR : 3 RECOG-TIME : 3 SPEAK : 6	ip-address Privileged EXEC (#) Release Modification 12.2(11)T This command you cisco AS5350, 12.4(15)T This command you cisco AS5350, 12.4(15)T This command you must you want you must you want you must you want	ip-address Privileged EXEC (#) Release Modification 12.2(11)T This command was intered to the command was intered to the command was intered to the command was may be command was may be command was may be command. 12.4(15)T This command was may be command was may be command was may be command. To display output from this command, you must first to the following is sample output from this command: Router # show mrcp client statistics hostname hostname:asr-host Method :Count Min Avg RECOGNIZE :3 40 DEFINE-GRAMMAR :3 48 568 RECOGNITION-START-TIMERS :2 140 164 SPEAK :6 44 568 RECOG-TIME :3 804 965

Field	Description
hostname	Host name of the media server.

Field	Description
Method	Type of event that was initiated between the gateway and the media server. Values as defined by the MRCP informational RFC are RECOGNIZE, DEFINE-GRAMMAR, RECOGNITION-START-TIMERS, and SPEAK. RECOG-TIME is the milliseconds that it takes the ASR server to recognize the grammar. SPEAK-TIME is the milliseconds that it takes the TTS server to speak.
Count	Total number of MRCP sessions that used this method.
Min	Length of the shortest session, in milliseconds.
Avg	Average length of a session, in milliseconds, based on all sessions.
Max	Length of the longest session, in milliseconds.

Related Commands

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Command	Description
debug mrcp	Displays debug messages for MRCP operations.
mrcp client statistics enable	Enables MRCP client statistics to be displayed.
show mrcp client session active	Displays information about active MRCP client sessions.
show mrcp client session history	Displays information about MRCP client history records that are stored on the gateway.

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show mwi relay clients

To display registration information for the list of message-waiting indicator (MWI) relay clients, use the **show mwi relay clients**command in privileged EXEC mode.

show mwi relay clients

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

Command HistoryReleaseModification12.2(2)XTThis command was introduced on the Cisco 1750, Cisco 1751, Cisco 2600,
Cisco 3600, and Cisco IAD2420.12.2(8)TThis command was integrated into Cisco IOS Release 12.2(8)T and
implemented on the Cisco 3725 and Cisco 3745.12.2(8)T1This command was implemented on the Cisco 2600-XM and Cisco 2691.12.2(11)TThis command was implemented on the Cisco 1760.

Examples

The following is sample output from thiscommand:

Router# show Client	mwi relay clients	EXPIRES(sec)	MW T
============	IFADDK	EAFIRES(Sec)	PIW 1
4085550153	10.8.17.25	89077	ON
6505550143	10.8.17.34	87654	OFF
The table below	describes significan	t fields shown in	this output.

Table 4: show mwi relay clients Field Descriptions

Field	Description
Client	Client number.
IPADDR	IP address.
EXPIRES	Seconds before expiration.
MWI	MWI status.

Related Commands

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Command	Description
mwi relay	Enables the Cisco IOS Telephony Service router to relay MWI information to remote Cisco IP phones.

show nextport

To display statistical information on NextPort digital signal processor (DSP) resources for diagnostic and debugging purposes, use the **show nextport** command in privileged EXEC mode.

show nextport {dfc slot/port| est [slot/dfc/module| enabled]| ifd {queue slot/port [control| data| est| gdb| voice| npaddress [qid]]| statistics}| md modem| mm [slot/dfc/module| interrupt]| np-address slot/port| session {slot/port| tty ttynumber}| siglib test| ssm {info slot/port| test| vdev slot/port}| test| vpd {statistics slot/port| traffic slot/port}| vsmgr protocol violations}

Syntax Description

dfc slot / port	Displays dial feature card (DFC) manager statistics for the specified slot and port. Range for the slot and port numbers is 1 to 7. The slash is required in the command syntax.
est	Displays Error/Status/Trace (EST) statistics for all the NextPort modules.
est slot / dfc / module	Displays EST information for the NextPort module in the specified slot, DFC, and module location. The slash is required in the command syntax.
est enabled	Displays a list of the enabled NextPort modules.
ifd queue slot / port	Displays the contents of one or more NextPort interface driver queues for the specified slot and port. Information includes the contents of the free, ready, and index rings, and the buffer description tables. The slash is required in the command syntax.
control	(Optional) Displays statistics for the interface control driver queue.
data	(Optional) Displays statistics for the interface data driver queue.
est	(Optional) Displays statistics for the interface EST driver queue.
gdb	(Optional) Displays statistics for the interface GDB driver queue.
voice	(Optional) Displays statistics for the interface voice driver queue.
npaddress	(Optional) The module address, expressed as a number (for example, 0x06000100).

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qid	(Optional) Specific queue ID number. Range is from 0 to 31.
ifd statistics	Displays interface driver statistics, including any weak assertions generated.
md modem	Displays information for the specified NextPort modem instance.
mm	Displays modem manager information for the enabled NextPort modules.
mm slot / dfc / module	Displays modem manager information for the specified slot, DFC, and module location. The slash is required in the command syntax.
mm interrupt	Displays a list of system timer interrupt enabled modules.
np-address slot / port	Displays the NextPort address for the specified slot and port. The slash is required in the command syntax.
session slot / port	Displays NextPort session information for the specified slot and port. The slash is required in the command syntax.
session tty ttynumber	Displays NextPort session information for the specified tty session. Range is from 0 to 2003.
siglib test	Displays statistics for the SigLib test configuration.
ssm info slot / port	Displays information about the NextPort session and service manager (SSM) for the specified slot and port. The slash is required in the command syntax.
ssm test	Displays svc_id type, service type, and signaling type for the unit test configuration.
ssm vdev slot / port	Displays NextPort SSM Vdev information for the specified slot and port. The slash is required in the command syntax.
test	Displays information about the NextPort test parameters configuration.
vpd statistics slot / port	Displays the TX/RX packet counters for voice packet drivers (VPDs) (including success and failure statistics). The <i>slot / port</i> argument limits the output to statistics for the specified slot and port. The slash is required in the command syntax.

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vpd traffic slot / port	Displays TX/RX VPD traffic statistics for the specified slot and port. The slash is required in the command syntax.
vsmgr protocol violations	Displays the number of payload violations for the NextPort voice resource manager.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	15.1(2)T	Router output for the show nextport mm command updated.
	12.1(1)XD1	The show nextport ifd queue command was introduced.
	12.3(11)T	This command was modified. Keywords and arguments were added to expand the variations of command output. The command was renamed show nextport with the ifd queue keyword was added.

Usage Guidelines

The **show nextport** command is intended to be used by Cisco Technical Support personnel to look at the NextPort DSP statistics and to perform detailed debugging. Please consult Cisco Technical Support before using this command.

The **show nextport** command is supported on the Cisco AS5300XM series, Cisco AS5400XM series, and Cisco AS5800XM series platforms.

When you enter the **show nextport vpd statistics**command on the Cisco AS5850, the output shows the TX/RX packet counters that could not be forwarded by distributed Cisco Express Forwarding. These packets are routed back to the enhanced route switch controller (ERSC).

The **show nextport vpd statistics***slot/port* command (on individual feature boards) displays the TX/RX packet counts for the packets that have been forwarded by distributed Cisco Express Forwarding.

The display of packet counts for the packets forwarded on the Cisco AS5850 is the result of the distributed architecture of the platform.

Examples



The following examples show some of the variations of the show nextport command.

Field descriptions in the examples provided are self-explanatory.

```
Router# show nextport session 1/1
Session Information Display
slot/port: 1/1 TTY# : 217 Session ID : 0x006D
Module Address : Slot 1 DFC 0 Module 0 SPE 0 Channel 1
Service Type : DATA FAX MODEM
Session State : IDLE
```

```
TDM Information:
  DSP is connected to TDM stream 0, channel 1 on the NextPort module
Router# show nextport vpd statistics
Voice Statistics for slot 1
Status: Active
Rx Statistics
rx successful= 0
 rx failed= 0
 queue destroyed = 0
 buffer pool depleted = 0
 invalid packet = 0
 wrong session packet = 0
 rejection by dsp api layer = 0
Tx Statistics
 tx_successful= 0
tx_acked_by_ifd= 0
tx_failed= 0
 rejection by IFD = 0
Voice Statistics for slot 2
Status: Idle
Rx Statistics
rx successful= 0
 rx_failed= 0
 queue destroyed = 0
  buffer pool depleted = 0
 invalid packet = 0
 wrong session packet = 0
 rejection by dsp api layer = 0
Tx Statistics
tx successful= 0
tx_acked_by_ifd= 0
tx_failed= 0
 rejection by IFD = 0
Voice Statistics for slot 3
Status: Active
Rx Statistics
rx successful= 0
 rx failed= 0
  queue destroyed = 0
  buffer pool depleted = 0
 invalid packet = 0
 wrong session packet = 0
  rejection by dsp api layer = 0
Tx Statistics
tx successful= 0
tx_acked_by_ifd= 0
tx_failed= 0
 rejection by IFD = 0
Voice Statistics for slot 4
Status: Idle
Rx Statistics
 rx successful= 0
 rx failed= 0
 queue destroyed = 0
 buffer pool depleted = 0
 invalid packet = 0
 wrong session packet = 0
 rejection by dsp api layer = 0
Tx Statistics
tx successful= 0
 tx_acked_by_ifd= 0
 tx failed= 0
 rejection by IFD = 0
Voice Statistics for slot 5
Status: Idle
Rx Statistics
 rx successful= 0
 rx failed= 0
  queue destroyed = 0
 buffer pool depleted = 0
 invalid packet = 0
  wrong session packet = 0
  rejection by dsp api layer = 0
```

Tx Statistics tx successful= 0 tx_acked_by_ifd= 0
tx_failed= 0 rejection by IFD = 0 Voice Statistics for slot 6 Status: Idle Rx Statistics rx successful= 0 rx_failed= 0 queue destroyed = 0buffer pool depleted = 0invalid packet = 0 wrong session packet = 0rejection by dsp api layer = 0 Tx Statistics tx successful= 0 tx_acked_by_ifd= 0 tx failed= $\overline{0}$ rejection by IFD = 0Voice Statistics for slot 7 Status: Idle Rx Statistics rx successful= 0 rx failed= 0 queue destroyed = 0buffer pool depleted = 0invalid packet = 0 wrong session packet = 0rejection by dsp api layer = 0 Tx Statistics tx successful= 0 tx_acked_by_ifd= 0 tx failed= 0 rejection by IFD = 0 Router# show nextport ssm vdev 3/1 vdev_common handle @ 0xC0D92E20 slot 3, port 1, tone , device_status(0): VDEV_STATUS_UNLOCKED csm state(0x0100)=CSM IDLE STATE, csm event proc=0x601EA0C0 invalid_event_count=2, wdt_timeout count=0 wdt_timestamp_started is not activated wait_for_dialing:False, wait_for_bchan:False pri_chnl=TDM_ISDN_STREAM(s0, u0, c0), tdm_chnl=TDM_DSP_STREAM(s3, c1) dchan idb start index=0, dchan idb index=0, call id=0x0000, bchan num=-1 csm event=CSM EVENT MODEM ONHOOK, cause=0x0007 ring_no_answer=0, ic_failure=0, ic_complete=0
dial failure=0, oc_failure=0, oc_complete=0 oc_busy=0, oc_no_dial_tone=0, oc_dial_timeout=0 remote link disc=0, stat busyout=0 oobp failure=0, cas address signalling failure=0 call_duration_started=00:00:00, call_duration_ended=00:00:00, total call durati0 The calling party phone number = The called party phone number = total_free_rbs_timeslot = 0, total_busy_rbs_timeslot = 0, total_rtr_busy_rbs_ti, total sw56 rbs timeslot = 0, total sw56 rbs static bo ts = 0, total_free_isdn_channels = 0, total_auto_busy_isdn_channels = 0, total rtr busy isdn channels = 0, $\min_{free}_{device}_{threshold} = 0$ Router# show nextport mm IOS bundled NextPort image version: 0.0.0.0 NP Module(3): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(4): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(5): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(6): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(7): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(8): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(9): state = MODULE NOT INSERTED

IOS bundled NextPort image version: 0.0.0.0 NP Module(10): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(11): state = MODULE NOT INSERTED IOS bundled NextPort image version: 7.37.10.90 NP Module(12): slot=4, dfc=0, module=0 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max_mpt_redundancy_session = 18 spe country code = 0 session handle enable = TRUE IOS bundled NextPort image version: 7.37.10.90 NP Module(13): slot=4, dfc=0, module=1 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max mpt redundancy session = 18 spe_country code = 0 session handle enable = TRUE IOS bundled NextPort image version: 7.37.10.90 NP Module(14): slot=4, dfc=0, module=2 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max_mpt_redundancy_session = 18 spe country code = 0session handle enable = TRUE IOS bundled NextPort image version: 7.37.10.90 NP Module(15): slot=5, dfc=0, module=0 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max_mpt_redundancy_session = 18 spe_country code = 0 session handle enable = TRUE IOS bundled NextPort image version: 7.37.10.90 NP Module(16): slot=5, dfc=0, module=1 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max_mpt_redundancy_session = 18 spe country code = 0session handle enable = TRUE IOS bundled NextPort image version: 7.37.10.90 NP Module(17): slot=5, dfc=0, module=2 state = MODULE RUNNING crash=0, bad=0, restarts=0, num SPEs=6 max mpt redundancy session = 18 spe country code = 0 session handle enable = TRUE IOS bundled NextPort image version: 0.0.0.0 NP Module(18): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(19): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(20): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(21): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0 NP Module(22): state = MODULE NOT INSERTED IOS bundled NextPort image version: 0.0.0.0

NP Module(23): state = MODULE NOT INSERTED

Related Commands

Command	Description
show voice dsp	Displays the current status or selective statistics of DSP voice channels.

show nextport vpd

To display the TX/RX packet counters for voice packet drivers (VPDs) (including success and failure statistics), use the **show nextport vpd**command in privileged EXEC mode.

show nextport vpd {statistics [slot/port-number]| traffic [slot/port-number]}

Syntax Description

statistics	Displays information about the VPD statistics.
slot / port number	(Optional) The slot or port number of the interface.
traffic	Displays TX/RX VPD traffic statistics for the specified slot and port.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	15.0(1)M	This command was introduced in a release earlier than Cisco IOS Release 15.0(1)M.

Usage Guidelines The **show nextport vpd statistics** command displays the TX/RX packet counters that could not be forwarded by distributed Cisco Express Forwarding (dCEF). These packets are routed back to the enhanced route switch controller (ERSC). Executing show nextport vpd statistics slot/port (on individual feature boards) shows the TX/RX packet counts for the packets that have been forwarded by dCEF.

Examples

The following is sample output from the **show nextport vpd traffic** command for slot1 ans port1:

```
Router# show nextport vpd traffic 1/1
Voice Instance for slot 1 port 1
Status: Idle
Session Duration in second: 0
Rx traffic Statistics
   total rx bytes: 0
    total rx packets per second: 0
Tx traffic Statistics
   total tx bytes: 0
   total tx packets: 0
   average tx packets per second: 0
The table below describes the significant fields shown in the display.
```

Table 5: show nextport vpd Field Descriptions

Field	Description
Status	Current status of the voice traffic.
Session	Duration of the voice sessions in seconds.
Rx traffic Statistics	Number of packets received.
Tx traffic Statistics	Number of packets sent.

The following is sample output from the **show nextport vpd statistics**command. The field descriptions are self-explanatory.

```
Router# show nextport vpd statistics
Voice Instance for slot 1 port 1
Status: Idle
Rx Statistics
  rx_successful= 0
    rx_failed= 0
    queue destroyed = 0
    buffer pool depleted = 0
    invalid packet = 0
    wrong session packet = 0
Tx Statistics
    tx_successful= 0
    tx_acked_by_ifd= 0
    tx_failed= 0
    rejection by IFD = 0
```

show num-exp

To display the number expansions configured, use the **show num-exp**command in privileged EXEC mode.

show num-exp [dialed-number]

Syntax Description	dialed -number	(Optional) Dialed number.
--------------------	----------------	---------------------------

Command Modes Privileged EXEC (#)

Command History

Release	Modification
11.3(1)T	This command was introduced on the Cisco 3600 series.
12.0(3)T	This command was implemented on the Cisco AS5300.
12.0(4)XL	This command was implemented on the Cisco AS5800.
12.0(7)XK	This command was implemented on the Cisco MC3810.
12.1(2)T	This command was integrated into Cisco IOS Release 12.1(2)T.
	11.3(1)T 12.0(3)T 12.0(4)XL 12.0(7)XK

Usage Guidelines Use this command to display all the number expansions configured for this router. To display number expansion for only one number, specify that number by using the *dialed-number* argument.

Examples

The following is sample output from this command:

```
Router# show num-exp
Dest Digit Pattern = '0...'
                                 Translation = '+14085270...
                                 Translation = '+14085271...'
Dest Digit Pattern = '1...'
Dest Digit Pattern = '3..'
                                 Translation = '+140852703...'
Dest Digit Pattern = '4..'
                                 Translation = '+140852804...'
                                 Translation = '+140852805...'
Dest Digit Pattern = '5..'
                                 Translation = '+1408526....'
Dest Digit Pattern = '6....'
Dest Digit Pattern = '7....'
                                 Translation = '+1408527....'
Dest Digit Pattern = '8...'
                                 Translation = '+14085288...'
The table below describes significant fields shown in this output.
```

Table 6: show num-exp Field Descriptions

Field	Description
Dest Digit Pattern	Index number identifying the destination telephone number digit pattern.

Field	Description
Translation	Expanded destination telephone number digit pattern.

Related Commands

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Command	Description
show call active voice	Displays the VoIP active call table.
show call history voice	Displays the VoIP call-history table.
show dial -peer voice	Displays configuration information for dial peers.
show voice port	Displays configuration information about a specific voice port.

show piafs status

To display the status of Personal Handyphone System (PHS) Internet Access Forum Standard (PIAFS) calls for each B channel in use on a router, use the **show piafs status** command in privileged EXEC mode.

show piafs status

Syntax Description This command has no arguments or keywords.

Router# show piafs status

Command Modes Privileged EXEC (#)

 Command History
 Release
 Modification

 12.2(8)T
 This command was introduced on the Cisco 803, Cisco 804, and Cisco 813.

Examples

The following is sample output from this command showing the status of PIAFS calls on B channel 1 on a Cisco 813 router:

PIAFS STATUS INFORMATION _____ Number of active calls = 1Details of connection 1 ***** Call Direction is: INCOMING Call speed is: 64K Current speed is: 64K Call Elapsed Time: 59 seconds The B channel assigned for this call is: B1 CHAN Control Parameters Agreed Upon: ARQ Control Information Transfer Protocol: Version 1 ARQ Data Transmission Protocol: Version 1 Measured RTF value: 9 PIAFS Frame Length in Bytes: 80 Maximum Frame Number: 63 Data Transmission Protocol of Peer: FIXED SPEED Data Transmission Protocol of 800 Router: FIXED SPEED V42 Negotiated: YES V42 Parameters: Direction: BOTH No of code words: 4096 Max string length: 250 First PPP Frame Detected: YES Piafs main FSM state: PIAFS DATA PIAFS Data Frames Tx Statistics: Total No: of PIAFS Frames Confirmed: 344 Total Bytes of Application Data Transmitted: Before Compression: 47021 After Compression: 30952 Compression Ratio in Tx direction is 1.51: 1 Total No: of PIAFS Frames Retransmitted: 32 Total Bytes of Application Data Retransmitted: 2336 Total Throughput in Tx Direction: Including PIAFS Dummy Frames: 8000 Bytes/Second

```
Excluding PIAFS Dummy Frames: 859 Bytes/Second
Excluding PIAFS Dummy and Retransmitted Data Frames: 593 Bytes/Second
PIAFS Data Frames Rx Statistics:
Total No: of PIAFS Frames Received: 86
Total No: of Bad PIAFS Frames Received: 0
Total Bytes of Application Data Received:
Before Uncompression: 1459
After Uncompression: 2955
Compression Ratio in Rx direction is 2.02: 1
Total Throughput in Rx Direction:
Including PIAFS Dummy Frames: 8000 Bytes/Second
Excluding PIAFS Dummy Frames: 656 Bytes/Second
Excluding PIAFS Dummy and Retransmitted Data Frames: 126 Bytes/Second
No: of ReSynchronizations so far: 0
The table below describes significant fields shown in this output.
```

Table 7: show piafs status Field Descriptions

Field	Description
First PPP Frame Detected	If the output shows "YES," the first PPP frame from the peer device has been detected by the Cisco 803, Cisco 804, or Cisco 813 router. If the output shows "NO," the router has not received any PPP frames from the peer device.
Piafs main FSM state	Valid states for the finite state machine (FSM) are Initialization, Sync, Control, and Data.

Related Commands

Command		Description	
	debug piafs events	Displays debugging messages for PIAFS calls.	

show pots csm

To display the current state of calls and the most recent event received by the call-switching module (CSM) on a Cisco 800 series router, use the **show pots csm** command in privileged EXEC mode.

show pots csm port

Syntax Description	port	Port number. Range is from 1 to 2.
--------------------	------	------------------------------------

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.1.(2)XF	This command was introduced on the Cisco 800 series.

Examples The following is sample output from this command:

```
Router# show pots csm 1

POTS PORT: 1

CSM Finite State Machine:

Call 0 - State: idle, Call Id: 0x0

Active: no

Event: CSM_EVENT_NONE Cause: 0

Call 1 - State: idle, Call Id: 0x0

Active: no

Event: CSM_EVENT_NONE Cause: 0

Call 2 - State: idle, Call Id: 0x0

Active: no

Event: CSM_EVENT_NONE Cause: 0

Field descriptions should be self-explanatory.
```

Related Commands

Command	Description
test pots dial	Dials a telephone number for the POTS port on the router by using a dial application on your workstation.
test pots disconnect	Disconnects a telephone call for the POTS port on the router.

show pots status

To display the settings of the telephone port physical characteristics and other information on the telephone interfaces of a Cisco 800 series router, use the **show pots status** command in privileged EXEC mode.

show pots status [1|2]

Syntax Description	1	(Optional) Displays the settings of telephone port 1.
	2	(Optional) Displays the settings of telephone port 2.

Command Default No default behavior or values

Command Modes Privileged EXEC (#)

mand History	Release	Modification
	12.0(3)T	This command was introduced on the Cisco 800 series.

Examples

Comr

The following is sample output from this command.

```
Router# show pots status
POTS Global Configuration:
   Country: United States
   Dialing Method: Overlap, Tone Source: Remote, CallerId Support: YES
   Line Type: 600 ohm, PCM Encoding: u-law, Disc Type: OSI,
   Ringing Frequency: 20Hz, Distinctive Ring Guard timer: 0 msec
   Disconnect timer: 1000 msec, Disconnect Silence timer: 5 sec
   TX Gain: 6dB, RX Loss: -6dB,
   Filter Mask: 6F
   Adaptive Cntrl Mask: 0
POTS PORT: 1
   Hook Switch Finite State Machine:
      State: On Hook, Event: 0
      Hook Switch Register: 10, Suspend Poll: 0
   CODEC Finite State Machine:
      State: Idle, Event: 0
      Connection: None, Call Type: Two Party, Direction: Rx only
      Line Type: 600 ohm, PCM Encoding: u-law, Disc Type: OSI,
      Ringing Frequency: 20Hz, Distinctive Ring Guard timer: 0 msec
Disconnect timer: 1000 msec, Disconnect Silence timer: 5 sec
      TX Gain: 6dB, RX Loss: -6dB,
      Filter Mask: 6F
      Adaptive Cntrl Mask: 0
   CODEC Registers:
      SPI Addr: 2, DSLAC Revision: 4
      SLIC Cmd: OD, TX TS: OO, RX TS: OO
      Op Fn: 6F, Op Fn2: 00, Op Cond: 00
      AISN: 6D, ELT: B5, EPG: 32 52 00 00
```

```
SLIC Pin Direction: 1F
    CODEC Coefficients:
        GX: A0 00
        GR: 3A A1

      Z:
      EA
      23
      2A
      35
      A5
      9F
      C2
      AD
      3A
      AE
      22
      46
      C2
      F0

      B:
      29
      FA
      8F
      2A
      CB
      A9
      23
      92
      2B
      49
      F5
      37
      1D
      01

      X:
      AB
      40
      3B
      9F
      A8
      7E
      22
      97
      36
      A6
      2A
      AE

         R: 01 11 01 90 01 90 01 90 01 90 01 90
        GZ: 60
      ADAPT B: 91 B2 8F 62 31
    CSM Finite State Machine:
        Call 0 - State: idle, Call Id: 0x0
                    Active: no
        Call 1 - State: idle, Call Id: 0x0
                    Active: no
        Call 2 - State: idle, Call Id: 0x0
                    Active: no
POTS PORT: 2
    Hook Switch Finite State Machine:
        State: On Hook, Event: 0
        Hook Switch Register: 20, Suspend Poll: 0
    CODEC Finite State Machine:
        State: Idle, Event: 0
Connection: None, Call Type: Two Party, Direction: Rx only
        Line Type: 600 ohm, PCM Encoding: u-law, Disc Type: OSI,
        Ringing Frequency: 20Hz, Distinctive Ring Guard timer: 0 msec
        Disconnect timer: 1000 msec, Disconnect Silence timer: 5 sec
        TX Gain: 6dB, RX Loss: -6dB,
        Filter Mask: 6F
        Adaptive Cntrl Mask: 0
    CODEC Registers:
        SPI Addr: 3, DSLAC Revision: 4
        SLIC Cmd: OD, TX TS: OO, RX TS: OO
        Op Fn: 6F, Op Fn2: 00, Op Cond: 00
        AISN: 6D, ELT: B5, EPG: 32 52 00 00
        SLIC Pin Direction: 1F
    CODEC Coefficients:
        GX: A0 00
        GR: 3A A1
         Z: EA 23 2A 35 A5 9F C2 AD 3A AE 22 46 C2 F0
         B: 29 FA 8F 2A CB A9 23 92 2B 49 F5 37 1D 01
X: AB 40 3B 9F A8 7E 22 97 36 A6 2A AE
         R: 01 11 01 90 01 90 01 90 01 90 01 90
        GZ: 60
      ADAPT B: 91 B2 8F 62 31
    CSM Finite State Machine:
        Call 0 - State: idle, Call Id: 0x0
                    Active: no
        Call 1 - State: idle, Call Id: 0x0
                    Active: no
        Call 2 - State: idle, Call Id: 0x0
                    Active: no
Time Slot Control: 0
```

The table below describes significant fields shown in this output.

Field	Descriptions
POTS Global Configuration	Settings of the telephone port physical characteristic commands. Also displays the following:
	• TX GAINCurrent transmit gain of telephone ports.
	• RX LOSSCurrent transmit loss of telephone ports.
	• Filter MaskValue determines which filters are currently enabled or disabled in the telephone port hardware.
	• Adaptive Cntrl MaskValue determines if telephone port adaptive line impedance hardware is enabled or disabled.
Hook Switch Finite State Machine	Device driver that tracks state of telephone port hook switch.
CODEC Finite State Machine	Device driver that controls telephone port codec hardware.
CODEC Registers	Register contents of telephone port codec hardware.
CODEC Coefficients	Codec coefficients selected by telephone port driver. Selected line type determines codec coefficients.
CSM Finite State Machine	State of call-switching module (CSM) software.
Time Slot Control	Register that determines if telephone port voice or data packets are sent to an ISDN B channel.

Table 8: show pots status Field Descriptions

Related Commands

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Command	Description
pots country	Configures telephones, fax machines, or modems connected to a Cisco 800 series router to use country-specific default settings for each physical characteristic.
pots dialing-method	Specifies how the Cisco 800 series router collects and sends digits dialed on your connected telephones, fax machines, or modems.

Command	Description
pots disconnect-supervision	Specifies how a Cisco 800 series router notifies the connected telephones, fax machines, or modems when the calling party has disconnected.
pots disconnect-time	Specifies the interval in which the disconnect method is applied if telephones, fax machines, or modems connected to a Cisco 800 series router fail to detect that a calling party has disconnected.
pots distinctive-ring-guard-time	Specifies a delay in which a telephone port can be rung after a previous call is disconnected (Cisco 800 series routers).
pots encoding	Specifies the PCM encoding scheme for telephones, fax machines, or modems connected to a Cisco 800 series router.
pots line-type	Specifies the impedance of telephones, fax machines, or modems connected to a Cisco 800 series router.
pots ringing-freq	Specifies the frequency at which telephones, fax machines, or modems connected to a Cisco 800 series router ring.
pots silence-time	Specifies the interval of silence after a calling party disconnects (Cisco 800 series router).
pots tone-source	Specifies the source of dial, ringback, and busy tones for telephones, fax machines, or modems connected to a Cisco 800 series router.

show pots volume

To display the receiver volume level that is configured for each POTS port on a router, use the **show pots volume** command in privileged EXEC mode.

show pots volume

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

I

Command History	Release	Modification
	12.2(8)T	This command was introduced on the Cisco 803, Cisco 804, and Cisco 813.

Examples The following is sample output from this command showing that the receiver volume level is 5 for both POTS port 1 and POTS port 2.

Router# show pots volume POTS PORT 1: Volume 5 POTS PORT 2: Volume 5 Field descriptions should be self-explanatory.

Related Commands	Command	Description
	volume	Configures the receiver volume level for a POTS port on a router.

show presence global

To display configuration information about the presence service, use the **show presence global** command in user EXEC or privileged EXEC mode.

show presence global

Syntax Description This command has no arguments or keywords.

Command Modes User EXEC (>) Privileged EXEC (#)

Command History	Release	Modification
	12.4(11)XJ	This command was introduced.
	12.4(15)T	This command was integrated into Cisco IOS Release 12.4(15)T.

Usage Guidelines This command displays the configuration settings for presence.

Examples

The following example displays output from the show subscription global command:

Router# show subscription global Presence Global Configuration Info	rmation:
Presence feature enable	: TRUE
Presence allow external watchers	: FALSE
Presence max subscription allowed	: 100
Presence number of subscriptions	: 0
Presence allow external subscribe	: FALSE
Presence call list enable	: TRUE
Presence server IP address	: 0.0.0.0
Presence sccp blfsd retry interval	: 60
Presence sccp blfsd retry limit	: 10
Presence router mode	: CME mode
$T_{1} = (1, 1, 1, 1, 1, \dots, \dots, 1, \dots, \dots, 1, \dots, \dots, 1, \dots, \dots,$	fields also and in the

The table below describes the significant fields shown in the display.

Table 9: show subscription global Field Descriptions

Field	Description
Presence feature enable	Indicates whether presence is enabled on the router with the presence command.
Presence allow external watchers	Indicates whether internal presentities can be watched by external watchers, as set by the watcher all command

Field	Description
Presence max subscription allowed	Maximum number of presence subscriptions allowed by the max-subscription command.
Presence number of subscriptions	Current number of active presence subscriptions.
Presence allow external subscribe	Indicates whether internal watchers are allowed to subscribe to status notifications from external presentities, as set by the allow subscribe command.
Presence call list enable	Indicates whether the Busy Lamp Field (BLF) call-list feature is enabled with the presence call-list command.
Presence server IP address	Displays the IP address of an external presence server defined with the server command.
Presence sccp blfsd retry interval	Retry timeout, in seconds, for BLF speed-dial numbers on SCCP phones set by the sccp blf-speed-dial retry interval command.
Presence sccp blfsd retry limit	Maximum number of retries allowed for BLF speed-dial numbers on SCCP phones set by the sccp blf-speed-dial retry interval command.
Presence router mode	Indicates whether the configuration mode is set to Cisco Unified CME or Cisco Unified SRST by the mode command.

Related Commands

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Command	Description
allow watch	Allows a directory number on a phone registered to Cisco Unified CME to be watched in a presence service.
allow subscribe	Allows internal watchers to monitor external presence entities (directory numbers).
debug presence	Displays debugging information about the presence service.
presence enable	Allows the router to accept incoming presence requests.
server	Specifies the IP address of a presence server for sending presence requests from internal watchers to external presence entities.

Command	Description
show presence subscription	Displays information about active presence subscriptions.
watcher all	Allows external watchers to monitor internal presence entities (directory numbers).

show presence subscription

To display information about active presence subscriptions, use the **show presence subscription** command in user EXEC or privileged EXEC mode.

show presence subscription [details] presentity telephone-number| subid subscription-id] summary]

Syntax Description

details	(Optional) Displays detailed information about presentities, watchers, and presence subscriptions.
presentity telephone-number	(Optional) Displays information on the presentity specified by the destination telephone number.
subid subscription-id	(Optional) Displays information for the specific subscription ID.
summary	(Optional) Displays summary information about active subscription requests.

Command Default Information for all active presence subscriptions is displayed.

Command Modes User EXEC (>) Privileged EXEC (#)

Command History	Release	Modification
	12.4(11)XJ	This command was introduced.
	12.4(15)T	This command was integrated into Cisco IOS Release 12.4(15)T.
	12.4(24)T	This command was integrated into Cisco IOS Release 12.4(24)T.

Usage Guidelines This command displays details about the currently active presence subscriptions

Examples The following is sample output from the **show presence subscription details** command:

Presence Active Subscription Records Details:

Subscription ID	: 1
Watcher	: 6002@10.4.171.60
Presentity	: 6005@10.4.171.34
Expires	: 3600 seconds

1

Subscription Duration line status watcher type presentity type Watcher phone type subscription type retry limit sibling subID sdb dp watcher dial peer tag number of presentity	: idle : local : local : SIP Phone : Incoming Indication : 0 : 0 : 0 : 6555346C : 40001
Subscription ID Watcher Presence Active Subscrip	: 2 : 6002@10.4.171.60
Subscription ID Watcher Presentity Expires line status watcher type presentity type Watcher phone type subscription type retry limit sibling subID sdb dp watcher dial peer tag	: 30 : 4085550103@10.4.171.34 : 5001@10.4.171.20 : 3600 seconds : idle : local : remote : SCCP [BLF Call List] : Outgoing Request : 0 : 23 : 0 : 0 : 0 : 0

The following is sample output from the show presence subscription summary command:

	Presentity	SubID	Expires	SibID	Status
···· • ··· · · · · · · · · · · · · · ·	5005@10.4.171.34	1	3600	0	idle
6005010.4.171.81 6	5002@10.4.171.34	6	3600	0	idle
6005@10.4.171.81 6	5003@10.4.171.34	8	3600	0	idle
6005@10.4.171.81 6	6002@10.4.171.34	9	3600	0	idle
6005@10.4.171.81 6	6003@10.4.171.34	10	3600	0	idle
6005010.4.171.81 6	6001@10.4.171.34	12	3600	0	idle
6001010.4.171.61 6	6003@10.4.171.34	15	3600	0	idle
6001010.4.171.61 6	6002@10.4.171.34	17	3600	0	idle
6003@10.4.171.59 6	5003@10.4.171.34	19	3600	0	idle
6003010.4.171.59 6	6002@10.4.171.34	21	3600	0	idle
6003@10.4.171.59 5	5001@10.4.171.34	23	3600	24	idle
6002@10.4.171.60 6	6003@10.4.171.34	121	3600	0	idle
6002@10.4.171.60 5	5002@10.4.171.34	128	3600	129	idle
6005@10.4.171.81 1	1001010.4.171.34	130	3600	131	busy
6005010.4.171.81 7	7005@10.4.171.34	132	3600	133	idle

Router# show presence subscription summary

The following is sample output from the **show presence subscription summary** command showing that device-based BLF monitoring is enabled on two phones.

Watcher	Presentity	SubID	Expires	SibID	Status
D 2036@10.6.2.6	2038@10.6.2.254	33	3600	0	idle
2036010.6.2.6	2038@10.6.2.254	35	3600	0	idle
D 2036@10.6.2.6	8883@10.6.2.254	37	3600	0	unknown
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The following is sample output from the show presence subscription subidcommand:

Router# show presence subscription subid 133

Presence Active Subscription Records:			
Subscription ID Watcher Presentity Expires line status watcher type presentity type Watcher phone type subscription type retry limit sibling subID sdb dp	: 133 : 6005@10.4.171.34 : 7005@10.4.171.20 : 3600 seconds : idle : local : remote : SIP Phone : Outgoing Request : 0 : 132 : 0 : 0		
watcher dial peer tag	: 0		

The table below describes the significant fields shown in the display.

Table 10: show presence subscription Field Descriptions

Field	Description
Watcher	IP address of the watcher.
Presentity	IP address of the presentity.
Expires	Number of seconds until the subscription expires. Default is 3600.
line status	Status of the line:
	• IdleLine is not being used.
	• In-useUser is on the line, whether or not this line can accept a new call.
	• UnknownPhone is unregistered or this line is not allowed to be watched.
watcher type	Whether the watcher is local or remote.
presentity type	Whether the presentity is local or remote.
Watcher phone type	Type of phone, either SCCP or SIP.
subscription type	The type of presence subscription, either incoming or outgoing.

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Field	Description
retry limit	Maximum number of times the router attempts to subscribe for the line status of an external SCCP phone when either the presentity does not exist or the router receives a terminated NOTIFY from the external presence server. Set with the sccp blf-speed-dial retry-interval command.
sibling subID	Sibling subscription ID if presentity is remote. If value is 0, presentity is local.
sdb	Voice port of the presentity.
dp	Dial peer of the presentity.
watcher dial peer tag	Dial peer tag of the watcher device.

Related Commands

Command	Description
allow watch	Allows a directory number on a phone registered to Cisco Unified CME to be watched in a presence service.
blf-speed-dial	Enables BLF monitoring for a speed-dial number on a phone registered to Cisco Unified CME.
debug ephone blf	Displays debugging information for BLF presence features.
debug presence	Displays debugging information about the presence service.
presence	Enables presence service and enters presence configuration mode.
presence enable	Allows the router to accept incoming presence requests.
show presence global	Displays configuration information about the presence service.

show proxy h323 calls

To display a list of active calls on the proxy, use the **show proxy h323 calls** command in privilegedEXEC mode.

show proxy h323 calls

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	11.3(2)NA	This command was introduced.
	12.0(3)T	The command was integrated into Cisco IOS Release 12.0(3)T and implemented on the Cisco MC3810.

Examples The following is sample output from thiscommand:

```
Router# show proxy h323 calls
Call unique key = 1
Conference ID = [277B87C0A283D111B63E00609704D8EA]
Calling endpoint call signalling address = 55.0.0.41
Calling endpoint aliases:
H323_ID: ptel11@zone1.com
Call state = Media Streaming
Time call was initiated = 731146290 ms
Field descriptions should be self-explanatory.
```

Related Commands

Command	Description
show proxy h323 detail-call	Displays the details of a particular call on a proxy.
show proxy h323 status	Displays the overall status of a proxy.

show proxy h323 detail-call

To display the details of a particular call on a proxy, use the **show proxy h323 detail-call** command in privileged EXEC mode.

show proxy h323 detail-call call-key

Syntax Description	call -key	Call to be displayed, derived from the show proxy h323 calls command output.
Command Modes	Privileged EXEC (#)	

Command History	Release	Modification
	11.3(2)NA	This command was introduced.
	12.0(3)T	The command was integrated into Cisco IOS Release 12.0(3)T and implemented on the Cisco MC3810.

Usage Guidelines You can use this command with or without proxy statistics enabled.

Examples

The following is sample output from this command without proxy statistics enabled:

```
Router# show proxy h323 detail-call 1
ConferenceID = [277B87C0A283D111B63E00609704D8EA]
Calling endpoint aliases:
      H323 ID: ptel11@zone1.com
Called endpoint aliases:
      H323 ID: ptel21@zone2.com
Peer proxy call signalling address = 172.17.0.41
Time call was initiated = 731146290 ms
Inbound CRV = 144
Outbound CRV = 70
Call state = Media Streaming
H245 logical channels for call leg pte111@zone1.com<->px1@zone.com
    Channel number = 2
        Type = VIDEO
        State = OPEN
        Bandwidth = 374 kbps
        Time created = 731146317 ms
    Channel number = 1
        Type = AUDIO
        State = OPEN
        Bandwidth = 81 kbps
        Time created = 73\overline{1}146316 ms
    Channel number = 2
        Type = VIDEO
        State = OPEN
        Bandwidth = 374 kbps
```

```
Time created = 731146318 ms
    Channel number = 1
        Type = AUDIO
        State = OPEN
        Bandwidth = 81 kbps
        Time created = 731146317 ms
H245 logical channels for call leg ptel110zone1.com<->172.17.50.21:
    Channel number = 2
        Type = VIDEO
        State = OPEN
        Bandwidth = 374 kbps
        Time created = 731146317 ms
    Channel number = 1
        Type = AUDIO
        State = OPEN
        Bandwidth = 81 kbps
        Time created = 73\overline{1}146316 ms
    Channel number = 2
        Type = VIDEO
        State = OPEN
        Bandwidth = 374 kbps
        Time created = 731146318 ms
    Channel number = 1
        Type = AUDIO
        State = OPEN
        Bandwidth = 81 kbps
        Time created = 731146317 ms
```

The following is sample output from this command with proxy statistics enabled:

```
Router# show proxy h323 detail-call 1
ConferenceID = [677EB106BD0D111976200002424F832]
Calling endpoint call signalling address = 172.21.127.49
    Calling endpoint aliases:
      H323 ID: intel2
      E164 ID: 2134
Called endpoint aliases:
      H323_ID: mcs@sanjose.cisco.com
Peer proxy call signalling address = 172.68.183.199
Peer proxy aliases:
      H323 ID: proxy.sanjose.cisco.com
Time call was initiated = 730949651 ms
Inbound CRV = 2505
Outbound CRV = 67
Call state = H245 open logical channels
H245 logical channels for call leg intel2 <-> cisco7-pxy:
    Channel number = 259
      RTP stream from intel2 to cisco7-pxy
        Type = VIDEO
        State = OPEN
        Bandwidth = 225 kbps
        Time created = 730949676 ms
    Channel number = 257
      RTP stream from intel2 to cisco7-pxy
        Type = AUDIO
        State = OPEN
        Bandwidth = 18 kbps
        Time created = 730949658 ms
    Channel number = 2
      RTP stream from cisco7-pxy to intel2
        Type = VIDEO
        State = OPEN
        Bandwidth = 225 kbps
        Time created = 730949664 ms
        RTP Statistics:
          Packet Received Count = 3390
          Packet Dropped Count = 0
          Packet Out of Sequence Count = 0
          Number of initial packets used for Arrival-Spacing bin setup = 200
          min arrival spacing = 0(ms) max arrival spacing = 856(ms)
          Average Arrival Rate = 86(ms)
Arrival-Spacing(ms) Packet-Count
             0
                                    2116
```

_____ Min Jitter = 34(ms) Max Jitter = 408(ms) Average Jitter Rate = 117 Jitter Rate(ms) Packet-Count Number of initial packets used for Arrival-Spacing bin setup = 200 ini_arrival_spacing = 32(ms) max_arrival_spacing = 96(ms)
Average Arrival Rate = 60(ms)
Arrival_Spacing(ms) Packet-Count 77 0 ------Min Jitter = 0(ms) Max Jitter = 28(ms) Average Jitter Rate = 5 Jitter Rate(ms) Packet-Count H245 logical channels for call leg cisco7-pxy <-> proxy.sanjose.cisco.com: Channel number = 259 RTP stream from cisco7-pxy to proxy.sanjose.cisco.com Type = VIDEO State = OPEN Bandwidth = 225 kbps Time created = 730949676 ms RTP Statistics: Packet Received Count = 3398

Packet Dropped Count = 1Packet Out of Sequence Count = 0 Number of initial packets used for Arrival-Spacing bin setup = 200 min_arrival_spacing = 0(ms) max_arrival_spacing = 872(ms) Average Arrival Rate = 85(ms) Arrival-Spacing(ms) Packet-Count 2.2.4 Ω ------Min Jitter = 55 (ms) Max Jitter = 447 (ms) Average Jitter Rate = 127 Jitter Rate(ms) Packet-Count Channel number = 257RTP stream from cisco7-pxy to proxy.sanjose.cisco.com Type = AUDIO State = OPEN Bandwidth = 18 kbps Time created = 730949658 ms RTP Statistics: Packet Received Count = 2537 Packet Dropped Count = 3 Packet Out of Sequence Count = 0 Number of initial packets used for Arrival-Spacing bin setup = 200 min_arrival_spacing = 0(ms) max_arrival_spacing = 32716(ms) Average Arrival Rate = 112 (ms) Arrival-Spacing(ms) Packet-Count

1368 28 _____ Min Jitter = 32(ms) Max Jitter = 1256(ms) Average Jitter Rate = 121 Jitter Rate(ms) Packet-Count 0 284 126 2201 252 4 378 6 504 4 3 630 2 2 756 882 2 2 2 9 1008 1134 Channel number = 2RTP stream from proxy.sanjose.cisco.com to cisco7-pxy Type = VIDEO State = OPEN Bandwidth = 225 kbps Time created = 730949664 ms Channel number = 1 RTP stream from proxy.sanjose.cisco.com to cisco7-pxy Type = AUDIO State = OPEN Bandwidth = 18 kbps Time created = 730949661 ms Field descriptions should be self-explanatory.

Related Commands

Command	Description
h323 qos	Enables QoS on the proxy.
show proxy h323 calls	Displays a list of active calls on the proxy.
show proxy h323 status	Displays the overall status of a proxy.

show proxy h323 status

To display the overall status of a proxy, use the show proxy h323 statuscommand in privileged EXEC mode.

show proxy h323 status

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	11.3(2)NA	This command was introduced.
	12.0(3)T	The command was integrated into Cisco IOS Release 12.0(3)T and implemented on the Cisco MC3810.

Examples The following is sample output from this command:

```
Router# show proxy h323 status
 H.323 Proxy Status
    H.323 Proxy Mode: Enabled
    Proxy interface = Serial1: UP
    Application Specific Routing: Disabled
    RAS Initialization: Complete
    Proxy aliases configured:
      H323_ID: px2
    Proxy aliases assigned by Gatekeeper:
      H323 ID: px2
    Gatekeeper multicast discovery: Disabled
    Gatekeeper:
        Gatekeeper ID: gk.zone2.com
        IP address: 70.0.0.31
    Gatekeeper registration succeeded
    T.120 Mode: BYPASS
    RTP Statistics: OFF
    Number of calls in progress: 1
Field descriptions should be self-explanatory.
```

Related Commands	Command	Description
	show proxy h323 calls	Displays a list of active calls on the proxy.
	show proxy h323 detail-call	Displays the details of a particular call on a proxy.

show raw

To display leaking raw buffers that have been captured, use the **show raw** command in privileged EXEC mode.

show raw {all| cas| ccapi| h323| ivr| reclaimed| tsp| vtsp}

Syntax Description

all	Displays the record of all sections.
cas	Displays the record of channel-associated signaling (CAS).
ссарі	Displays the application programming interface (API) that is used to coordinate interaction between application and call legs (telephony or IP).
h323	Displays the record of the H.323 subsystem.
ivr	Displays the record of interactive voice response (IVR).
reclaimed	Displays the raw buffers reclaimed by the audit module.
tsp	Displays the telephony service provider (TSP) subsystem.
vtsp	Displays the voice telephony service provider (VTSP) subsystem.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.2(2)XU3	This command was introduced.
	12.2(11)T	This command was integrated into Cisco IOS Release 12.2(11)T.

Usage Guidelines

The number of raw leaks that are displayed by the **show raw reclaimed** command should be zero, indicating that there are no memory leaks.

Examples

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The following is a sample output from this command showing that there are no leaking raw buffers:

Router# show raw reclaimed

RAW LEAK REPORT:

ORPHAN : 0 raw buffers reclaimed

TSP : 0 raw buffers reclaimed

VTSP: 0 raw buffers reclaimed

H323 : 0 raw buffers reclaimed

SIP: 0 raw buffers reclaimed

CCAPI : 0 raw buffers reclaimed

VOATM : 0 raw buffers reclaimed

XGCP : 0 raw buffers reclaimed

CAS: 0 raw buffers reclaimed

IVR : 0 raw buffers reclaimed

SSAPP : 0 raw buffers reclaimed

Last Audit Session is at 20:28:13 UTC Fri Mar 27 2002

The table below describes significant fields shown in this output.

Field	Description
ORPHAN	R aw buffers when a valid owner is not found.
TSP	Raw buffers on the telephony service provider (TSP) subsystem.
VTSP	Raw buffers on the voice telephony service provider (VTSP) subsystem.
H323	Raw buffers on the H.323 subsystem.
SIP	Raw buffers on the Session Initiation Protocol session.
ССАРІ	Raw buffers on the API system used to coordinate interaction between application and call legs (telephony or IP).
VOATM	Raw buffers on the Voice over ATM network.
XGCP	Raw buffers on external media gateway control protocols. Includes Simple Gateway Control Protocol (SGCP) and Media Gateway Control Protocol (MGCP).

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Field	Description
CAS	Raw buffers on the channel-associated signaling (CAS).
IVR	Raw buffers on the interactive voice response (IVR) system.
SSAPP	Raw buffers on the session application.

Related Commands

Command	Description
show rawmsg	Shows raw messages owned by the required component.

show rawmsg

To display the raw messages owned by the required component, use the **show rawmsg** command in privileged EXEC mode.

show rawmsg {all| cas| ccapi| h323| ivr| reclaimed| tsp| vtsp}

Syntax Description

all	Displays the raw messages owned by all the components.
cas	Displays the Channel Associated Signaling (CAS) subsystem.
ссарі	Displays the Application programming interface (API) used to coordinate interaction between application and call legs (telephony or IP).
h323	Displays the H.323 subsystem.
ivr	Displays the Interactive Voice Response (IVR) subsystem.
reclaimed	Displays the raw reclaimed by the audit module.
tsp	Displays the Telephony Service Provider (TSP) subsystem.
vtsp	Displays the Voice Telephony Service Provider (VTSP) subsystem.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.0(7)T	This command was introduced on the Cisco AS5300.
	12.4(24)T	This command was modified in a release earlier than Cisco IOS Release 12.4(24)T. The cas , ivr , and reclaimed keywords were added.

Usage Guidelines

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The number displayed for the **show rawmsg all** command should be zero to indicate that there are no memory leaks.

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Examples The following is a sample output from the **show rawmsg tsp** command that displays memory leaks from the Telephony Service Provider. The field names are self-explanatory.

Router**# show rawmsg tsp** Raw Msg Summary: Raw Msg in used: 0

Related Commands

Command	Description
isdn protocol-emulate	Configures the Layer 2 and Layer 3 port protocol of a BRI voice port or a PRI interface to emulate NT (network) or TE (user) functionality.
isdn switch type	Configures the Cisco AS5300 PRI interface to support Q.SIG signaling.
pri-group nec-fusion	Configures the NEC PBX to support FCCS.
show cdapi	Displays the CDAPI.

show rlm group statistics

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To display the network latency of a Redundant Link Manager (RLM) group, use the **show rlm group statistics**command in privileged EXEC mode.

show rlm group [group-number] statistics

umber	(Optional) RLM group number. The range is from 0 to 255. There is no default value.
EXEC (#)	
N	N odification
T	This command was introduced.
Ъ Т	This command was integrated into Cisco IOS Release 12.4(22)T.
how rlm group statistics	e show rlm group statistics command:
00:00:00.000, max=00:00: m: time occurred at 02:42:	<pre>48.724, total transition=1 00.000, min=00:00:00.000, latest=00:00:00.000 33.724, total transition=1 15.000, min=00:00:00.000, latest=00:03:15.000</pre>
covered: time occurred at 00:00: 0.000s, max=0.000s, min= tched:	00.000, success=0(0%), failure=0
0.000s, max=0.000s, min= changed: time occurred at 00:00: fink Group[r1-server]: the link [10.1.1.1 (Loopbac time occurred at 02:43: 162.000s, max=162.000s, rer link [10.1.1.1 (Loopba time occurred at 02:47:	00.000s, latest=0.000s 00.000 for totally 0 times (k1), 10.1.4.1]: 03.724, success=1(100%), failure=0 min=0.000s, latest=162.000s (ck1), 10.1.4.1]: 15.724, success=91(62%), failure=54
=162 ver : ti =0.0	2.000s, max=162.000s, link [10.1.1.1(Loopba

last time occurred at 02:43:03.724, success=1(100%), failure=0 avg=162.000s, max=162.000s, min=0.000s, latest=162.000s Echo over link [10.1.1.2(Loopback2), 10.1.4.2]: last time occurred at 02:47:19.724, success=95(63%), failure=54 avg=0.000s, max=0.000s, min=0.000s, latest=0.000s Server Link Group[r2-server]: Open the link [10.1.1.1(Loopback1), 10.1.5.1]: last time occurred at 02:46:06.724, success=0(0%), failure=1 avg=0.000s, max=0.000s, min=0.000s, latest=0.000s Echo over link [10.1.1.1(Loopback1), 10.1.5.1]: last time occurred at 02:47:18.724, success=0(0%), failure=85 avg=0.000s, max=0.000s, min=0.000s, latest=0.000s Open the link [10.1.1.2(Loopback2), 10.1.5.2]: last time occurred at 02:46:06.724, success=0(0%), failure=1 avg=0.000s, max=0.000s, min=0.000s, latest=0.000s Echo over link [10.1.1.2(Loopback2), 10.1.5.2]: last time occurred at 02:47:18.724, success=0(0%), failure=85 avg=0.000s, max=0.000s, min=0.000s, latest=0.000s The table below describes the significant fields shown in the display.

Table 12: show rlm group statistics Field Descriptions

Field	Description
Link_up	Statistics collected when the RLM group is in the link up state.
total transition	Total number of transitions into a particular RLM group state.
avg	Total average time (in seconds) that the interval lasts.
max	Total maximum time (in seconds) that the interval lasts.
min	Total minimum time (in seconds) that the interval lasts.
latest	The most recent interval.
Link_down	Statistics collected when the RLM group is in the link down state.
Link_recovered	Statistics collected when the RLM group is in the link recovery state.
Link_switched	Statistics collected when the RLM group is in the link switching state.
Server_changed	Statistics collected for when and how many times an RLM server failover happens.
Server Link Group[r1-server]	Statistics collected for the signaling links defined under a particular server link group, for example, r1-server.

Field	Description
Open the link	Statistics collected when a particular signaling link connection is open (broken).
Echo over link	Statistics collected when a particular signaling link connection is established.

Related Commands

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Command	Description
clear interface	Resets the hardware logic on an interface.
clear rlm group	Clears all RLM group time stamps to zero.
interface	Configures an interface type and enters interface configuration mode.
link (RLM)	Specifies the link preference.
protocol rlm port	Reconfigures the port number for the basic RLM connection for the whole RLM group.
retry keepalive	Allows consecutive keepalive failures a certain amount of time before the link is declared down.
server (RLM)	Defines the IP address of the server.
show rlm group status	Displays the status of an RLM group.
show rlm group timer	Displays the current RLM group timer values.
shutdown (RLM)	Shuts down all of the links under an RLM group.
timer	Overwrites the default setting of timeout values.

show rlm group status

To display the status of a Redundant Link Manager (RLM) group, use the **show rlm group status** command in privileged EXEC mode.

show rlm group [group-number] status

Syntax Description	 (Optional) RLM group number. The range is from 0 to 255. There is no default value.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	11.3(7)	This command was introduced.
	12.4(22)T	This command was integrated into Cisco IOS Release 12.4(22)T.

Usage Guidelines You can specify the *group-number* argument to view the status of a specific RLM group. If you do not specify the *group-number* argument, then the **show rlm group status** command displays the status of all the configured RLM groups.

Examples

The following is sample output from the **show rlm group status** command:

```
Router# show rlm group status
RLM Group 1 Status
User/Port: RLM MGR/3000
Link State: Up Last Link Status Reported: Up
Next tx TID: 1 Last rx TID: 0
Server Link Group[r1-server]:
link [10.1.1.1(Loopback1), 10.1.4.1] = socket[active]
link [10.1.1.2(Loopback2), 10.1.4.2] = socket[standby]
Server Link Group[r2-server]:
link [10.1.1.1(Loopback1), 10.1.5.1] = socket[opening]
link [10.1.1.2(Loopback2), 10.1.5.2] = socket[opening]
```

Table 13: show rlm group status Field Descriptions

Field	Description
User/Port	List of registered RLM users and the port numbers associated with them.

Field	Description
RLM_MGR	RLM management module.
Link State	Current RLM group's link state for connecting to the remote end.
Last Link Status Reported	Most recent link status change is reported to RLM users.
Next tx TID	Next transaction ID for transmission.
Last rx TID	Most recent transaction ID has been received.
Server Link Group[r1-server]	Status of all signaling links configured under a particular RLM server link group, for example, r1-server.
socket	Status of the individual signaling link.

Related Commands

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Command	Description
clear interface	Resets the hardware logic on an interface.
clear rlm group	Clears all RLM group time stamps to zero.
interface	Configures an interface type and enters interface configuration mode.
link (RLM)	Specifies the link preference.
protocol rlm port	Reconfigures the port number for the basic RLM connection for the whole RLM group.
retry keepalive	Allows consecutive keepalive failures a certain amount of time before the link is declared down.
server (RLM)	Defines the IP address of the server.
show rlm group statistics	Displays the network latency of an RLM group.
show rlm group timer	Displays the current RLM group timer values.
shutdown (RLM)	Shuts down all of the links under an RLM group.
timer	Overwrites the default setting of timeout values.

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show rlm group timer

To display the current timer values of a Redundant Link Manager (RLM) group, use the **show rlm group timer** command in privileged EXEC mode.

show rlm group [group-number] timer

Syntax Description	 (Optional) RLM group number. The range is from 0 to 255. There is no default value.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	11.3(7)	This command was introduced.
	12.4(22)T	This command was integrated into Cisco IOS Release 12.4(22)T.

Usage Guidelines You can specify the *group-number* argument to view the timer values of a specific RLM group. If you do not specify the *group-number* argument, then the **show rlm group timer** command displays the timer values of all the configured RLM groups.

Examples

The following is sample output from the **show rlm group timer** command:

```
Router# show rlm group timer

RLM Group 1 Timer Values

open_wait = 3s force-down = 30s

recovery = 12s switch-link = 5s

minimum-up = 60s retransmit = 1s

keepalive = 1s
```

The table below describes the significant fields shown in the display.

Table 14: show rlm group timer Field Descriptions

Field	Description
open_wait	Wait for the connection request to be acknowledged.
recovery	Time (in seconds) to allow the link to recover to backup link before declaring the link is down.

Field	Description
minimum-up	Minimum time (in seconds) to force RLM to stay in the link down state for the remote end to detect that the link state is down.
keepalive	A keepalive packet is sent out from the network access server to the Card Security Code (CSC) periodically.
force-down	Minimum time (in seconds) to force RLM to stay in the link down state for the remote end to detect that the link state is down.
switch-link	The maximum transition period allows RLM to switch from a lower preference link to a higher preference link. If the switching link does not complete successfully before this timer expires, RLM goes into the recovery state.
retransmit	Because RLM is operating under User Datagram Protocol (UDP), it needs to resend the control packet if the packet is not acknowledged within this retransmit interval (in seconds).

Related Commands

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Command	Description
clear interface	Resets the hardware logic on an interface.
clear rlm group	Clears all RLM group time stamps to zero.
interface	Configures an interface type and enters interface configuration mode.
link (RLM)	Specifies the link preference.
protocol rlm port	Reconfigures the port number for the basic RLM connection for the whole RLM group.
retry keepalive	Allows consecutive keepalive failures a certain amount of time before the link is declared down.
server (RLM)	Defines the IP address of the server.
show rlm group statistics	Displays the network latency of an RLM group.
show rlm group status	Displays the status of an RLM group.

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Command	Description
shutdown (RLM)	Shuts down all of the links under an RLM group.
timer	Overwrites the default setting of timeout values.

show rpms-proc counters

To display statistics for the number of leg 3 authentication, authorization, and accounting (AAA) preauthentication requests, successes, and rejects, use the **show rpms-proc counters** command in privileged EXEC mode.

show rpms-proc counters

Syntax Description This command has no arguments or keywords.

Command Modes Privileged EXEC (#)

 Command History
 Release
 Modification

 12.2(11)T
 This command was introduced.

Usage Guidelines *Leg 3* refers to a call segment from the IP network to a terminating (outgoing) gateway that takes traffic from an IP network to a PSTN network.

Examples

The following sample output displays leg 3 statistics for AAA preauthentication requests, successes, and rejects:

Router# show rpms-proc coun	iters		
H323 Calls			
Preauth Requests Sent	: 43433		
Preauth Requests Accepted	: 43433		
Preauth Requests Rejected	: 0		
Preauth Requests TimedOut	: 0		
Disconnects during Preauth	: 0		
SIP Calls			
Preauth Requests Sent	: 43080		
Preauth Requests Accepted	: 43080		
Preauth Requests Rejected	: 0		
Preauth Requests TimedOut	: 0		
Disconnects during Preauth : 0			
The table below describes significant fields shown in this output.			

 Table 15: show rpms-proc counters Field Descriptions

Field	Description
Preauth Requests Sent	Number of preauthentication requests sent.
Preauth Requests Accepted	Number of preauthentication requests accepted.
Preauth Requests Rejected	Number of preauthentication requests rejected.

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Field	Description
Preauth Requests Timed Out	Number of preauthentication requests rejected because they timed out.
Disconnects during Preauth	Number of calls that were disconnected during the preauthentication process.

Related Commands

Command	Description	
clear rpms -proc counters	Clears statistics counters for AAA preauthentication requests, successes, and rejects.	

show rtpspi

To display Real-time Transport Protocol (RTP) serial peripheral interface (SPI) active call details and call statistics, use the **show rtpspi**command in privileged EXEC mode.

show rtpspi {call| statistics}

Syntax Description

C	call	Displays RTP SPI active call details.
s	statistics	Displays RTP SPI call statistics information.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.4(22)T	This command was introduced in a release earlier than Cisco IOS Release 12.4(22)T.

Examples

The following is sample output from the **show rtpspi statistics**command:

Rout	Router# show rtpspi statistics							
RTP	Statistics	info:						
No.	CallId	Xmit-pkts	Xmit-bytes	Rcvd-pkts	Rcvd-bytes	Lost pkts	Jitter	Latenc
1	48	0x3BA	0x25440	0x17	0xD99	0x0	0x0	0x0
2	50	0x3BA	0x4A88	0x70	0x8AD	0x0	0x0	0x0
The table below describes the significant fields shown in the display.								

Table 16: show rtpspi statistics Field Descriptions

Field	Description
CallId	The call ID number.
Xmit-pkts	Number of packets transmitted.
Xmit-bytes	Number of bytes transmitted.
Rcvd-pkts	Number of packets received.
Rcvd-bytes	Number of bytes received.
Lost pkts	Number of lost packets.

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Field	Description	
Jitter	Reports the jitter encountered.	
Latenc	Reports the level of latency on the call.	

Related Commands

Command	Description
debug rtpspi all	Debugs all RTP SPI errors, sessions, and in/out functions.

show rtsp client session

To display cumulative information about Real Time Streaming Protocol (RTSP) session records, use the **show rtsp client session** command in privileged EXEC mode.

show rtsp client session {history| active} [detailed]

Syntax Description

history	Displays cumulative information about the session, packet statistics, and general call information such as call ID, session ID, individual RTSP stream URLs, packet statistics, and play duration.
active	Displays session and stream information for the stream that is currently active.
detailed	(Optional) Displays session and stream information in detail for all streams that are associated with the session. This keyword is not available on Cisco 7200 series routers.

Command Default Active (current) stream information is displayed.

Command Modes Privileged EXEC (#)

Command History

Release	Modification	
12.1(3)T	This command was introduced on the Cisco AS5300.	
12.1(5)T	This command was implemented on the Cisco AS5800.	
12.1(5)XM2	This command was implemented on the Cisco AS5350 and Cisco AS5400.	
12.2(2)XB1	This command was implemented on the Cisco AS5850.	
12.2(4)XM	This command was implemented on the Cisco 1750 and Cisco 1751. Support for the Cisco AS5300, Cisco AS5350, Cisco AS5400, Cisco AS5800 and Cis AS5850 is not included in this release.	
12.2(8)T	This command was integrated into Cisco IOS Release 12.2(8)T and implemented on the Cisco 7200 series. This command is supported on the Cisco AS5300, Cisco AS5350, Cisco AS5400, Cisco AS5800, and Cisco AS5850 in this release.	

Usage Guidelines

Use this command to display cumulative information about the session, packet statistics, and general call information such as call ID and session ID.

Note

Session refers to a session between the application and the RTSP client. Each call leg that is configured to use RTSP streaming has a session.

A call leg could play several prompts in a session; the "Play Time" refers to the play time associated with a stream or, in other words, a prompt; the cumulative play time is the sum total of all streams (or prompts) played out in a session.

The command output is a stream block that contains information about the stream (URL, packet statistics, current state of the stream, play duration, call ID, session ID, individual RTSP stream URLs, and packet statistics).

Examples

The following is sample output from the show rtsp client session active command :

```
Router# show rtsp client session active
                        Current Status:RTSP STATUS PLAYING
RTSP Session ID:0x8
Associated CallID:0xF
Active Request:RTSP_API_REQ_PLAY
Control Protocol:TCP
                         Data Protocol:RTP
Total Packets Transmitted:0 (0 bytes)
Total Packets Received: 708 (226560 bytes)
                          Time:00:00:28.296
Cumulative Elapsed Play
Cumulative Elapsed Record Time:00:00:00.000
        Session ID:0x8
                           State:ACTIVE
        Local IP Address:10.13.79.45
                                          Local Port 16660
        Server IP Address:10.13.79.6
                                         Server Port 11046
        Stream URL:rtsp://rtsp-cisco.cisco.com:554/chinna.au/streamid=0
        Packets Transmitted:0 (0 bytes)
        Packets Received: 708 (226560 bytes)
        Elapsed Play Time:00:00:28.296
        Elapsed Record Time:00:00:00.000
        ReceiveDelay:85
                            LostPackets:0
```

The following is sample output from the **show rtsp client session history detailed** command:

```
Router# show rtsp client session history detailed
RTSP Session ID:0x8
Associated CallID:0xF
Control Protocol:TCP
                         Data Protocol:RTP
Total Packets Transmitted:0 (0 bytes)
Total Packets Received: 2398 (767360 bytes)
Cumulative Elapsed Play
                         Time:00:01:35.916
Cumulative Elapsed Record Time:00:00:00.000
        Session ID:0x8
                           State: INACTIVE
        Local IP Address:10.13.79.45
                                          Local Port 16660
        Server IP Address:10.13.79.6
                                         Server Port 11046
        Stream URL:rtsp://rtsp-cisco.cisco.com:554/chinna.au/streamid=0
        Packets Transmitted:0 (0 bytes)
        Packets Received:2398 (767360 bytes)
               Time:00:01:35.916
        Plav
        Record Time:00:00:00.000
        OntimeRcvPlayout:93650
        GapFillWithSilence:0
        GapFillWithPrediction:70
        GapFillWithInterpolation:0
        GapFillWithRedundancy:0
        HighWaterPlayoutDelay:85
        LoWaterPlayoutDelay:64
```

ReceiveDelay:85 EarlyPackets:2 LatePackets:12 The table below describes significant fields shown in this output.

Table 17: show rtsp client session Field Descriptions

Field	Description
RTSP Session ID:0x8	Unique ID for the RTSP session.
Current Status:RTSP_STATUS_PLAYING	Current status: • RTSP_STATUS_SESSION_IDLE • RTSP_STATUS_SERVER_CONNECTED • RTSP_STATUS_PLAY_PAUSED • RTSP_STATUS_PLAY_COMPLETE
Associated CallID:0xF	ID of associated call.
Control Protocol:TCP	Transport protocol.
Data Protocol:RTP	Data protocol.
Total Packets Transmitted:0 (0 bytes)	Bytes sent out to the RTSP server.
Total Packets Received:708 (226560 bytes)	Bytes received from the server for playing.

Related Commands

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Command	Description
rtsp client session history duration	Specifies the length of time for which the RTSP is kept during the session.
rtsp client session history records	Specifies the number of RTSP client session history records during the session.

show rudpv0 failures

To display SS7 Reliable User Datagram Protocol (RUDP) failure statistics, use the **show rudpv0 failures** command in privileged EXEC mode.

show rudpv0 failures

- **Syntax Description** This command has no keywords or arguments.
- **Command Modes** Privileged EXEC (#)

Command History	Release	Modification
	12.0(7)XR	This command was introduced.
	12.1(1)T	This command was integrated into Cisco IOS Release 12.1(1)T.

Examples

The following is sample output from this command showing displaying RUDP failures.

Router# show rudpv0 failure	es
**** RUDP Failure Stats ***	**
CreateBufHdrsFailure	0
CreateConnRecsFailure	0
CreateEventsFailure	0
NotReadyFailures	0
OptionNotSupportedFailures	0
OptionRequiredFailures	0
GetConnRecFailures	0
InvalidConnFailures	0
EventUnavailFailures	0
EmptyBufferSendFailures	0
BufferTooLargeFailures	0
ConnNotOpenFailures	0
SendWindowFullFailures	0
GetBufHdrSendFailures	0
GetDataBufFailures	0
GetBufHdrFailures	0
SendEackFailures	0
SendAckFailures	0
SendSynFailures	0
SendRstFailures	0
SendNullFailures	0
TimerNullFailures	0
FailedRetransmits	0
IncomingPktsDropped	0
UnknownRudpEvents	0
Field descriptions should be self	f-explana

Field descriptions should be self-explanatory.

Related Commands

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Command	Description
clear rudpv0 statistics	Resets the counters for the statistics generated by the show rudpv0 failures commandto 0.
show rudpv0 statistics	Displays RUDP information about number of packets sent, received, and so forth.

show rudpv0 statistics

To display SS7 Reliable User Datagram Protocol (RUDP) internal statistics, use the **show rudpv0 statistics** command in privileged EXEC command.

show rudpv0 statistics

- **Syntax Description** This command has no keywords or arguments.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.0(7)XR
 This command was introduced.

 12.1(1)T
 This command was integrated into Cisco IOS Release 12.1(1)T.

Usage Guidelines Because statistics counters are continually updated, the cumulative total may not be exactly equal to individual connection counters. After a connection is reset, previous statistics are lost, so the current connection statistics reflect only instances of the RUDP connection since the last reset.

Cumulative statistics reflect counts since the router was rebooted or since the **clear rudpv0 statistics** command was used.

Examples The following is sample output from this command displaying RUDP statistics and states for two connections. The fields are self-explanatory.

Router# show rudpv0 statis *** RUDP Internal Stats **	
Connection ID: 811641AC,	Current State: OPEN
RcvdInSeq	1
RcvdOutOfSeq	0
SoftResets	0
SoftResetsRcvd	0
TotalPacketsSent	4828
TotalPacketsReceived	4826
TotalDataBytesSent	0
TotalDataBytesReceived	4
TotalDataPacketsSent	0
TotalDataPacketsReceived	1
TotalPacketsRetrans	0
TotalPacketsDiscarded	0
Connection ID: 81163FD4,	Current State: OPEN
RcvdInSeq	2265
RcvdOutOfSeq	0
SoftResets	0
SoftResetsRcvd	0
TotalPacketsSent	7863
TotalPacketsReceived	6755
TotalDataBytesSent	173690
TotalDataBytesReceived	56121

TotalDataPacketsSent TotalDataPacketsReceived TotalPacketsRetrans TotalPacketsDiscarded	2695 2265 0 0
Cumulative RudpV0 Statisti	cs 2266
RcvdInSeq RcvdOutOfSeq	2200
SoftResets	0
SoftResetsRcvd	0
TotalPacketsSent	12691
TotalPacketsReceived	11581
TotalDataBytesSent	173690
TotalDataBytesReceived	56125
TotalDataPacketsSent	2695
TotalDataPacketsReceived	2266
TotalPacketsRetrans	0
TotalPacketsDiscarded	0

Related Commands

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Command	Description
clear rudpv0 statistics	Resets the counters for the statistics generated by the show rudpv0 statistics command to 0.
show rudpv0 failures	Displays RUDP information about failed connections and the reasons for them.

show rudpv1

To display Reliable User Datagram Protocol (RUDP) information, use the **show rudpv1** command in privileged EXEC mode.

show rudpv1 {failures| parameters| statistics}

Syntax Description

failures	RUDP failure statistics.
parameters	RUDP connection parameters.
statistics	RUDP internal statistics.

Command Modes Privileged EXEC (#)

Command HistoryReleaseModification12.1(1)TThis command was introduced on the Cisco AS5300.12.2(2)TThis command was implemented on the Cisco 7200.12.2(4)TThis command was implemented on the Cisco 2600 series, Cisco 3600 series, and Cisco MC3810.12.2(2)XB1This command was implemented on the Cisco AS5850.12.2(8)TThis command was integrated into Cisco IOS Release 12.2(8)T and implemented on the Cisco IAD2420 series.

Usage Guidelines

Because statistics counters are continually updated, the cumulative total may not be exactly equal to individual connection counters. After a connection is reset, previous statistics are lost, so the current connection statistics reflect only instances of the RUDP connection since the last reset.

Cumulative statistics reflect counts since the router was rebooted or since the **clear rudpv1 statistics** command was used.

Examples The following is sample output from this command:

Router**# show rudpv1 failures** **** RUDPV1 Failure Stats **** CreateBufHdrsFailure 0 CreateConnRecsFailure 0 CreateEventQueueFailure 0

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OsSpecificInitFailure	0
NotReadyFailures	0
OptionNotSupportedFailures	0 0
InvalidOptionFailures	0
OptionRequiredFailures	0
GetConnRecFailures InvalidConnFailures	0
EventUnavailFailures	0
GetConnRecFailures	0
FindConnRecFailures	0
EmptyBufferSendFailures	0
BufferTooLargeFailures	0
ConnNotOpenFailures	0
SendWindowFullFailures	0
GetBufHdrSendFailures	Ő
SendInProgressFailures	0
GetDataBufFailures	Õ
GetBufHdrFailures	0
SendFailures	0
SendEackFailures	0
SendAckFailures	0
SendSynFailures	0
SendRstFailures	0
SendTcsFailures	0
SendNullFailures	0
TimerFailures	0
ApplQueueFailures	0
FailedRetransmits	0
IncomingPktsDropped	0
CksumErrors	0
UnknownRudpv1Events	0
InvalidVersion	0
InvalidNegotiation	0
The following is sample output	fro

The following is sample output from the **show rudpv1 parameters** command:

Router# show rudpv1 parameters				
*** RUDPV1 Connection F				
Next Connection Id:61F7		Remote conn id 126000		
Conn State	OPEN			
Conn Type	ACTIV	E .		
Accept Negot params?				
Receive Window	32			
Send Window	32			
Receive Seg Size				
Send Seg Size	384			
		l Negotiated		
Max Auto Reset	5	5		
Max Cum Ack	3	3 2		
Max Retrans	2	2		
Max OutOfSeq	3	3		
Cum Ack Timeout		100		
Retrans Timeout		300		
Null Seg Timeout				
Trans State Timeout	2000	2000		
Cksum type	Hdr	Hdr		
Next Connection Id:61F7	2DAC,	Remote conn id 126218		
Conn State	OPEN			
Conn Type	ACTIV	Έ		
Accept Negot params?				
Receive Window	32			
Send Window	32			
Receive Seg Size	384			
Send Seg Size	384			
Re	equested	l Negotiated		
Max Auto Reset	5	5		
Max Cum Ack	3	3		
Max Retrans	2	2		
Max OutOfSeq	3 2 3	3		
Cum Ack Timeout	100	100		
	300	300		
Null Seg Timeout	1000	1000		

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Trans State Timeout 2 Cksum type	000 Hdr	2000 Hdr	
The following is sample output			statistics command.
The following is sumple outpo		show ruupvi	statistics communa.
Router# show rudpv1 stati			
*** RUDPV1 Internal Stats			
Connection ID:61F72B6C,		State:OPEN	
RcvdInSeq	647		
RcvdOutOfSeq	95		
AutoResets	0		
AutoResetsRcvd	0		
TotalPacketsSent	1011		
TotalPacketsReceived	958		
TotalDataBytesSent	17808		
TotalDataBytesReceived	17808		
TotalDataPacketsSent	742		
TotalDataPacketsReceived	742		
TotalPacketsRetrans	117		
TotalPacketsDiscarded	38	Of a t a CODEN	
Connection ID:61F72DAC,		State:OPEN	
RcvdInSeq	0 0		
RcvdOutOfSeq	0		
AutoResets	0		
AutoResetsRcvd	0 75		
TotalPacketsSent TotalPacketsReceived	75		
	0		
TotalDataBytesSent TotalDataBytesReceived	0		
TotalDataPacketsSent	0		
TotalDataPacketsReceived	0		
TotalPacketsRetrans	0		
TotalPacketsDiscarded	0		
Cumulative RudpV1 Statist			
NumCurConnections	2		
RcvdInSeq	652		
RcvdOutOfSeq	95		
AutoResets	0		
AutoResetsRcvd	0		
TotalPacketsSent	1102		
TotalPacketsReceived	1047		
TotalDataBytesSent	18048		
TotalDataBytesReceived	18048		
TotalDataPacketsSent	752		
TotalDataPacketsReceived	752		
TotalPacketsRetrans	122		
TotalPacketsDiscarded	38		

Related Commands

Command	Description
clear rudpv1 statistics	Clears the RUDP statistics counters.
debug rudpv1	Displays debugging information for RUDP.
show sccp

To display Skinny Client Control Protocol (SCCP) information such as administrative and operational status, use the **show sccp** command in user EXEC or privileged EXEC mode.

show sccp [all| ccm group [*number*]| connections [details| internal| rsvp| summary]| server| statistics| call-identifications| call-references]

Syntax Description

all	(Optional) Specifies all Skinny Client Control Protocol (SCCP) global information.
ccm	(Optional) Displays SCCP Cisco Unified Communications Manager (CUCM) group related information.
group	(Optional) Displays CUCM groups.
number	(Optional) CUCM group number that needs to be displayed.
connections	(Optional) Specifies information about the connections controlled by the SCCP transcoding and conferencing applications.
details	(Optional) Displays SCCP connections in detail.
internal	(Optional) Displays information about SCCP internal connections.
rsvp	(Optional) Displays Resource Reservation Protocol (RSVP) information about SCCP connections.
summary	(Optional) Displays information about SCCP connections.
server	(Optional) Displays SCCP server information.
statistics	(Optional) Specifies statistical information for SCCP transcoding and conferencing applications.

call-identifications	(Optional) Displays the following identification numbers that is associated with each leg of a call:
	• Session
	Call Reference
	Connection
	• Call
	• Bridge
	• Profile
call-references	(Optional) Displays codec, port, ID numbers for each leg of a call.

Command Modes User EXEC Privileged EXEC (#)

Command History	Release	Modification
	12.1(5)YH	This command was introduced on the Cisco VG200.
	12.2(6)T	This command was modified. The rsvp keyword was added.
	12.2(13)T	This command was implemented on the Cisco 2600 series, Cisco 3620, Cisco 3640, Cisco 3660, and Cisco 3700 series.
	12.3(8)T	This command was modified. The following keywords and arguments were added: ccm , connections , details , group , internal , <i>number</i> , summary .
	12.4(11)XW1	This command was modified. The stype field was added to the show output to show whether a connections is encrypted.
	12.4(15)XY	This command was modified. The statistics and server keywords were added.
	12.4(22)T	This command was modified. Command output was updated to show IPv6 information and it was integrated into Cisco IOS Release 12.2(13)T.
	15.1(4)M	This command was modified. The call-identifications and call-references keywords were added.

Usage Guidelines

The router on which you use the **show sccp** command must be equipped with one or more digital T1/E1 packet voice trunk network modules (NM-HDVs) or high-density voice (HDV) transcoding/conferencing DSP farms (NM-HDV-FARMs) to provide digital signal processor (DSP) resources.

Use the **show sccp ccm** group command to show detailed information about all groups assigned to the Cisco Unified CallManager. The optional group-number argument can be added to select details about a specific group.

Configure the **show sccp server statistics** command on the Cisco Unified Border Element, IP-to-IP Gateway, or Session Border Controller where no SCCP phone is registered, to show the statistical counts on the SCCP server. The counts display queuing errors and message drops on the transcoder alone when it is on the Cisco Unified Border Element, IP-to-IP Gateway, or Session Border Controller.

When the **show sccp server statistics** command is used on the Cisco Unified Manager Express (CME), it is recommended for use together with the clear sccp server statistics command.

Examples

In the following sample output, the gateway IP address can be an IPv4 or IPv6 address when it operates on an IPv4/IPv6 dual stack.

```
Router# show sccp

SCCP Admin State: UP

Gateway Local Interface: GigabitEthernet0/0

IPv6 Address: 2001:DB8:C18:1::3

IPv4 Address: 10.4.34.100

Port Number: 2000

IP Precedence: 5

User Masked Codec list: None

Call Manager: 172.19.242.27, Port Number: 2000

Priority: N/A, Version: 5.0.1, Identifier: 4

Trustpoint: N/A

Call Manager: 2001:DB8:C18:1::100, Port Number: 2000

Priority: N/A, Version: 7.0, Identifier: 1

Trustpoint: N/A
```

The table below describes the significant fields shown in the display.

Field	Description
SCCP Admin State	Current state of the SCCP session.
Gateway Local Interface	Local interface that SCCP applications use to register with Cisco Unified Communications Manager.
IP precedence	Sets the IP precedence value for SCCP.
User Masked Codec list	Codec to mask.
Call Manager	Cisco Unified CallManager server information.

Table 18: show sccp Field Descriptions

The following is sample output from this command for IPv4 only. The field descriptions are self-explanatory.

```
Router# show sccp
SCCP Admin State: UP
Gateway IP Address: 10.10.10.11, Port Number: 0
Switchover Method: IMMEDIATE, Switchback Method: GUARD_TIMER
Switchback Guard Timer: 1200 sec, IP Precedence: 5
Max Supported MTP sessions: 100
Transcoding Oper State: ACTIVE - Cause Code: NONE
Active CallManager: 10.10.10.35, Port Number: 2000
TCP Link Status: CONNECTED
```

Conferencing Oper State: DOWN - Cause Code: DSPFARM_DOWN Active CallManager: NONE TCP Link Status: NOT_CONNECTED CallManager: 10.10.10.37, Port Number: 2000 Priority: 3, Version: 3.1 CallManager: 10.10.10.35, Port Number: 2000 Priority: 2, Version: 3.0

The following sample shows statistical information for SCCP transcoding and conferencing applications.

Router# show sccp statistics SCCP Transcoding Application Statistics: TCP packets rx 548, tx 559 Unsupported pkts rx 3, Unrecognized pkts rx 0 Register tx 3, successful 3, rejected 0, failed 0 KeepAlive tx 543, successful 540, failed 2 OpenReceiveChannel rx 2, successful 2, failed 0 CloseReceiveChannel rx 0, successful 0, failed 0 StartMediaTransmission rx 2, successful 2, failed 0 StopMediaTransmission rx 0, successful 0, failed 0 MediaStreamingFailure rx 0 Switchover 1, Switchback 1 SCCP Conferencing Application Statistics: TCP packets rx 0, tx 0 Unsupported pkts rx 0, Unrecognized pkts rx 0 Register tx 0, successful 0, rejected 0, failed 0 KeepAlive tx 0, successful 0, failed 0 OpenReceiveChannel rx 0, successful 0, failed 0 CloseReceiveChannel rx 0, successful 0, failed 0 StartMediaTransmission rx 0, successful 0, failed 0 StopMediaTransmission rx 0, successful 0, failed 0 MediaStreamingFailure rx 0 Switchover 0, Switchback 0

In the following example, the secure value of the stype field indicates that the conection is encrypted. The field descriptions are self-explanatory.

Router# show sccp connections sess id conn id mode codec ripaddr rport sport stype 16777222 16777409 secure-xcode sendrecv g729b 10.3.56.120 16772 19534 secure-xcode sendrecv g711u 16777222 16777393 10.3.56.50 17030 18464 Total number of active session(s) 1, and connection(s) 2

The following example shows the remote IP addresses of active RTP sessions, each of which shows either an IPv4 or an IPv6 address.

```
Router# show sccp connections
sess id conn id stype mode
                                 codec sport rport ripaddr
16777219 16777245 conf sendrecv g711u 16516 27814 10.3.43.46
                       sendrecv g711u 17712 18028 10.3.43.2
16777219 16777242 conf
16777219 16777232 conf
                       sendrecv g711u 16890 19440 10.3.43.2
16777219 16777228 conf sendrecv g711u 19452 17464 10.3.43.2
16777220 16777229 xcode sendrecv g711u 17464 19452 10.3.43.2
16777220 16777227 xcode sendrecv g729b 19466 19434 2001:0DB8:C18:1:212:79FF:FED7:B254
16777221 16777233 mtp
                       sendrecv g711u 19440 16890 10.3.43.2
16777221 16777231 mtp
                        sendrecv g711u 17698 17426 2001:0DB8:C18:1:212:79FF:FED7:B254
16777223 16777243 mtp
                        sendrecv g711u 18028 17712 10.3.43.2
16777223 16777241 mtp
                        sendrecv g711u 16588 19446 2001:0DB8:C18:1:212:79FF:FED7:B254
```

The following is sample output for the two Cisco CallManager Groups assigned to the Cisco Unified CallManager: group 5 named "boston office" and group 988 named "atlanta office".

```
Router# show sccp ccm group

CCM Group Identifier: 5

Description: boston office

Binded Interface: NONE, IP Address: NONE

Registration Retries: 3, Registration Timeout: 10 sec

Keepalive Retries: 3, Keepalive Timeout: 30 sec

CCM Connect Retries: 3, CCM Connect Interval: 1200 sec

Switchover Method: GRACEFUL, Switchback Method: GRACEFUL_GUARD

Switchback Interval: 10 sec, Switchback Timeout: 7200 sec
```

```
Signaling DSCP value: default, Audio DSCP value: default
CCM Group Identifier: 988
Description: atlanta office
Binded Interface: NONE, IP Address: NONE
Associated CCM Id: 1, Priority in this CCM Group: 1
Associated Profile: 6, Registration Name: MTP123456789988
Associated Profile: 10, Registration Name: CFB123456789986
Registration Retries: 3, Registration Timeout: 10 sec
Keepalive Retries: 5, Keepalive Timeout: 30 sec
CCM Connect Retries: 3, CCM Connect Interval: 10 sec
Switchover Method: IMMEDIATE, Switchback Method: IMMEDIATE
Switchback Interval: 15 sec, Switchback Timeout: 0 sec
Signaling DSCP value: default, Audio DSCP value: default
The table below describes the significant fields shown in the display.
```

Table 19: show sccp ccm group Field Descriptions

Field	Description
CCM Group Identifier	Current state of the SCCP session.
Description	Local interface that SCCP applications use to register with Cisco Unified Communications Manager.
Binded Interface	Sets the IP precedence value for SCCP.
Registration Retries	Codec to mask.
Registration Timeout	Cisco Unified CallManager server information.
Keepalive Retries	Displays the number of keepalive retries from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager.
Keepalive Timeout	Displays the number of times that a DSP farm attempts to connect to a Cisco Unified CallManager.
CCM Connect Retries	Displays the amount of time, in seconds, that a given DSP farm profile waits before attempting to connect to a Cisco Unified CallManager when the current Cisco Unified CallManager fails to connect.
CCM Connect Interval	Method that the SCCP client uses when the communication link between the active Cisco Unified CallManager and the SCCP client fails.
Switchover Method	Method used when the secondary Cisco Unified CallManager initiates the switchback process with that higher order Cisco Unified CallManager.
Switchback Method	Method used when the secondary Cisco Unified CallManager initiates the switchback process with that higher order Cisco Unified CallManager.

Field	Description
Switchback Interval	Amount of time that the DSP farm waits before polling the primary Cisco Unified CallManager when the current Cisco Unified CallManager switchback connection fails.
Switchback Timeout	Amount of time, in seconds, that the secondary Cisco Unified CallManager waits before switching back to the primary Cisco Unified CallManager.
Associated CCM Id	Number assigned to the Cisco Unified CallManager.
Registration Name	User-specified device name in Cisco Unified CallManager.
Associated Profile	Number of the DSP farm profile associated with the Cisco Unified CallManager group.

The following sample output displays the summary information for all SCCP call references:

```
Router# show sccp call-reference
                                                 session_type: vcf , profile id: 101,
session id: 16805277
        call-reference: 25666614 , Name: , Number: 3004
                 Audio conn_id: 16777929 , str_passthr: 0
rtp-call-id: 21 , bridge-id: 15
                                                                                                                                  , msp-call-id: 12
                              mode: sendrecv, sport: 25146, rport 16648, ripaddr: 10.22.82.205
        codec: g711u , pkt-period: 20
call-reference: 25666611 , Name: , Number: 6628
                 Audio conn_id: 16777926 , str_passthr: 0
                              rtp-call-id: 19 , bridge-id: 13 , msp-call-id: 12
mode: sendrecv, sport: 28168, rport 2398 , ripaddr: 128.107.147.125
                              codec: g711u , pkt-period: 20
                 Video conn_id: 16777927 , conn_id_tx: 16777928 , str_passthr: 0
                              rtp-call-id: 20
                                                                            , bridge-id: 14
                                                                                                                                 , msp-call-id: 12
                              mode: sendrecv, sport: 22604, rport 2400 , ripaddr: 128.107.147.125
                              bit rate: 1100kbps, frame rate: 30fps , rtp pt_rx: 97, rtp pt_tx: 97
                              codec: h264, Profile: 0x40, level: 2.2, max mbps: 81 (x500 MB/s), max fs: 7
 (x256 MBs)
        call-reference: 25666608 , Name: , Number: 62783365
                 Audio conn_id: 16777923 , str_passthr: 0
                                                                           , bridge-id: 11
                                                                                                                             , msp-call-id: 12
                              rtp-call-id: 16
                              mode: sendrecv, sport: 21490, rport 20590, ripaddr: 10.22.83.142
                 codec: g711u , pkt-period: 20
Video conn_id: 16777924 , conn_id_tx: 16777925 , str passthr: 0
                              rtp-call-id: 17
                                                                              , bridge-id: 12
                                                                                                                                , msp-call-id: 12
                              mode: sendrecv, sport: 23868, rport 29010, ripaddr: 10.22.83.142
                              bit rate: 960kbps, frame rate: 30fps , rtp pt_rx: 97, rtp pt_tx: 97
                              codec: h264, Profile: 0x40, level: 3.0, max mbps: 0 (x500 MB/s), max fs: 0
 (x256 MBs)
         call-reference: 25666602 , Name: , Number: 62783363
                 Audio conn_id: 16777916 , str_passthr: 0
                                                                            , bridge-id: 7
                              rtp-call-id: 11
                                                                                                                                , msp-call-id: 12
                              mode: sendrecv, sport: 26940, rport 20672, ripaddr: 10.22.82.48
                 video: codec: g711u , pkt-period: 20
Video conn_id: 16777917 , conn_id_tx: 16777919 , str_passthr: 0
rtp-call-id: 13 , bridge-id: 8 , msp-call-id
prode: condrol and the 
                                                                                                                                , msp-call-id: 12
                              mode: sendrecv, sport: 16462, rport 20680, ripaddr: 10.22.82.48
                              bit rate: 960kbps, frame rate: 30fps, rtp pt rx: 97, rtp pt tx: 97
codec: h264, Profile: 0x40, level: 2.0, max mbps: 72 (x500 MB/s), max fs: 5
(x256 MBs)
Total number of active session(s) 1
```

```
Total of number of active session(s) 1
       with total of number of call-reference(s) 4
          with total of number of audio connection(s) 4
          with total of number of video connection(s) 3
The following sample output displays summary information for all SCCP call identifications:
Router# show sccp call-identifications
sess id
                     conn id
                               conn id tx spid rtp callid msp callid bridge id codec
          callref
                                                                                            stvpe
 prof id
16805277
           25666614 16777929
                                 0
                                             0
                                                   21
                                                               12
                                                                            15
                                                                                        q711u vcf
   101
16805277
           25666611
                     16777926
                                 0
                                             0
                                                   19
                                                               12
                                                                           13
                                                                                        α711u
                                                                                               vcf
   101
16805277
           25666611
                     16777927
                                16777928
                                             \cap
                                                   20
                                                               12
                                                                           14
                                                                                       h264
                                                                                               vcf
   101
16805277
           25666608
                     16777923
                                 0
                                             0
                                                   16
                                                               12
                                                                           11
                                                                                       g711u
                                                                                               vcf
   101
                                16777925
16805277
           25666608
                     16777924
                                             Ω
                                                   17
                                                               12
                                                                           12
                                                                                       h264
                                                                                               vcf
   101
16805277
           25666602
                     16777916
                                             0
                                                               12
                                                                            7
                                                                                        q711u
                                 0
                                                   11
                                                                                               vcf
   101
          25666602 16777917 16777919
                                             0
                                                               12
                                                                            8
                                                                                       h264
16805277
                                                   13
                                                                                               vcf
   101
Total number of active session(s) 1
The following sample displays the output from show sccp:
Router# show sccp
SCCP Admin State: UP
Gateway Local Interface: GigabitEthernet0/1
IPv4 Address: 172.19.156.7
        Port Number: 2000
IP Precedence: 5
User Masked Codec list: None
Call Manager: 1.4.211.39, Port Number: 2000
                 Priority: N/A, Version: 7.0, Identifier: 1
```

Priority: N/A, Version: 7.0, Identifier: 100

Supported Codec: inband-dtmf to rfc2833 conversion, Maximum Packetization Period: 30

Supported Codec: h264: QCIF, Frame Rate: 15fps, Bit Rate: 64-704 Kbps Supported Codec: h264: QCIF, Frame Rate: 30fps, Bit Rate: 64-704 Kbps Supported Codec: h264: CIF, Frame Rate: 15fps, Bit Rate: 64-704 Kbps Supported Codec: h264: CIF, Frame Rate: 30fps, Bit Rate: 64-704 Kbps Supported Codec: h264: 4CIF, Frame Rate: 30fps, Bit Rate: 1000-1000 Kbps

Trustpoint: N/A Call Manager: 128.107.151.39, Port Number: 2000

Trustpoint: N/A V_Conferencing Oper State: ACTIVE - Cause Code: NONE Active Call Manager: 128.107.151.39, Port Number: 2000 TCP Link Status: CONNECTED, Profile Identifier: 101 Reported Max Streams: 4, Reported Max OOS Streams: 0

Supported Codec: g711ulaw, Maximum Packetization Period: 30 Supported Codec: g711alaw, Maximum Packetization Period: 30 Supported Codec: g729ar8, Maximum Packetization Period: 60 Supported Codec: g729br8, Maximum Packetization Period: 60 Supported Codec: g729br8, Maximum Packetization Period: 60 Supported Codec: g729br8, Maximum Packetization Period: 60 Supported Codec: rfc2833 dtmf, Maximum Packetization Period: 30 Supported Codec: rfc2833 pass-thru, Maximum Packetization Period: 30

Lavout: default 1x1

TLS : ENABLED

dsp service dspfarm

dspfarm (DSP farm)

Command

Related Commands

Enables DSP-farm service.

Description

card.

Configures DSP farm services for a specified voice

Command	Description
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
sccp	Enables SCCP and its associated transcoding and conferencing applications.
show dspfarm	Displays summary information about DSP resources.

show sccp ccm group

I

To display the groups that are configured on a specific Cisco Unified CallManager, use the **show sccp ccm group**command in privileged EXEC mode.

show sccp ccm group [group-number]

Syntax Description	group-number		(Optional) Number that identifies the Cisco CallManager group. Range is 1 to 65535. There is no default value.
Command Modes	Privileged EXEC (#)		
Command History	Release	Modificat	ion
	12.3(8)T	This com	mand was introduced.
Usage Guidelines		-	iled information about all groups assigned to the Cisco ument can be added to select details about a specific
Examples		d "boston office" and grou coup fice IP Address: NONE 3, Registration Timeou (eepalive Timeout: 30 CCM Connect Interval CEFUL, Switchback Meth) sec, Switchback Meth) sec, Switchback Time default, Audio DSCP va 88 ffice IP Address: NONE Priority in this CCM G Registration Name: MI CRegistration Name: MI CRegistration Name: C 3, Registration Timeou (eepalive Timeout: 30 CCM Connect Interval EDIATE, Switchback Meth 5 sec, Switchback Time default, Audio DSCP va	sec : 1200 sec id: GRACEFUL_GUARD wout: 7200 sec lue: default P123456789988 FB123456789966 it: 10 sec sec : 10 sec bhod: IMMEDIATE wout: 0 sec lue: default

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Table 20: show sccp ccm group Field Descriptions

Field	Description
CCM Group Identifier	Displays the Cisco CallManager group number.
Description	Displays the optional description of the group assigned to the group number.
Binded Interface	Displays the IP address of the selected interface is used for all calls within a given profile.
Registration Retries	Number of times that SCCP tries to register with a Cisco Unified CallManger
Registration Timeout	Length of time, in seconds, between registration messages sent from SCCP to the Cisco Unified CallManager.
Keepalive Retries	Displays the number of keepalive retries from Skinny Client Control Protocol (SCCP) to Cisco Unified CallManager.
Keepalive Timeout	Displays the length of time, in seconds, between keepalive retries.
CCM Connect Retries	Displays the number of times that a DSP farm attempts to connect to a Cisco Unified CallManager.
CCM Connect Interval	Displays the amount of time, in seconds, that a given DSP farm profile waits before attempting to connect to a Cisco Unified CallManager when the current Cisco Unified CallManager fails to connect.
Switchover Method	Method that the SCCP client uses when the communication link between the active Cisco Unified CallManager and the SCCP client fails.
Switchback Method	Method used when the secondary Cisco Unified CallManager initiates the switchback process with that higher order Cisco Unified CallManager.
Switchback Interval	Amount of time that the DSP farm waits before polling the primary Cisco Unified CallManager when the current Cisco Unified CallManager switchback connection fails.
Switchback Timeout	Amount of time, in seconds, that the secondary Cisco Unified CallManager waits before switching back to the primary Cisco Unified CallManager.

Field	Description
Associated CCM Id	Number assigned to the Cisco Unified CallManager.
Registration Name	User-specified device name in Cisco Unified CallManager.
Associated Profile	Number of the DSP farm profile associated with the Cisco Unified CallManager group.

Related Commands

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Command	Description
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
sccp ccm	Adds a Cisco Unified CallManager server to the list of available servers.

show sccp connections details

To display Skinny Client Control Protocol (SCCP) connection details such as call-leg details, use the **show** sccp connections details command in privileged EXEC mode.

show sccp connections details

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.3(8)T
 This command was introduced.

Examples The following is sample output from this command:

```
Router# show sccp connections details
bridge-info(bid, cid) - Normal bridge information(Bridge id, Calleg id)
mmbridge-info(bid, cid) - Mixed mode bridge information(Bridge id, Calleg id)
sess id
           conn id
                      call-id
                                  codec
                                          pkt-period type
                                                                bridge-info(bid, cid)
mmbridge-info(bid, cid)
16800395
                       .
15
                                  N/A
                                          N/A
                                                      transmsp All RTPSPI Callegs
                                                                                         N/A
16800395
           18425889
                                  g711u
                      14
                                          20
                                                      rtpspi
                                                                (10, 15)
                                                                                         N/A
16800395
           18425905
                       13
                                  g711u
                                          20
                                                      rtpspi
                                                                (9, 15)
                                                                                         N/A
Total number of active session(s) 1, connection(s) 2, and callegs 3
```

Related Commands

Command	Description
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
sccp ccm	Adds a Cisco CallManager server to the list of available servers and sets various parameters.
show sccp connections internal	Displays the internal SCCP details.
show sccp connections summary	Displays a summary of the number of SCCP sessions and connections.

show sccp connections internal

To display the internal Skinny Client Control Protocol (SCCP) details such as time-stamp values, use the **show sccp connections internal**command in privileged EXEC mode.

show sccp connections internal

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.3(8)T
 This command was introduced.

Examples The following is sample output from this command:

Router# show sccp connections internal Total number of active session(s) 0, and connection(s) 0 Field descriptions should be self-explanatory.

Related Commands

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Command	Description
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
sccp ccm	Adds a Cisco CallManager server to the list of available servers and sets various parameters.
show sccp connections details	Displays the SCCP connection details.
show sccp connections summary	Displays a summary of the number of SCCP sessions and connections.

show sccp connections rsvp

To display information about active Skinny Client Control Protocol (SCCP) connections that are using RSVP, use the **show sccp connections rsvp** command in privileged EXEC mode.

show sccp connections rsvp

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.4(6)T
 This command was introduced.

Examples The following is sample output from this command:

Router# show sccp connections rsvp sess id local ip :port remote ip :18486 192.168.20.1 conn id rsvp_id dir :port 16777578 16778093 SEND 192.168.21.1 -210:16454 RECV 192.168.21.1 16777578 16778093 -211 :18486 192.168.20.1 :16454

Total active sessions 1, connections 2, rsvp sessions 2 The table below describes the fields shown in the display.

Table 21: show sccp connections rsvp Field Descriptions

Field	Description
sess_id	Identification number of the SCCP session.
conn_id	Identification number of the SCCP connection.
rsvp_id	Identification number of the RSVP connection.
dir	Direction of the SCCP connection.
local ip	IP address of the local endpoint.
remote ip	IP address of the remote endpoint.
port	Port number of the local or remote endpoint.
Total active sessions	Total number of active SCCP sessions.

Field	Description
connections	Number of active connections that are a part of the SCCP sessions.
rsvp session	Number of active connections that use RSVP.

Related Commands

ſ

Command	Description
debug sccp all	Displays debugging information for SCCP.
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
rsvp	Enables RSVP support on a transcoding or MTP device.
sccp	Enables SCCP on the interface.
sccp local	Selects the local interface that SCCP applications use to register with Cisco Unified CallManager.
show sccp connections summary	Displays a summary of the number of SCCP sessions and connections.

show sccp connections summary

To display a summary of the number of sessions and connections based on the service type under the Skinny Client Control Protocol (SCCP) application, use the **show sccp connections summary** command in privileged EXEC mode.

show sccp connections summary

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.3(8)T
 This command was introduced.

Examples The following is sample output from this command:

```
Router# show sccp connections summary
SCCP Application Service(s) Statistics Summary:
Total Conferencing Sessions: 0, Connections: 0
Total Transcoding Sessions: 0, Connections: 0
Total MTP Sessions: 0, Connections: 0
Total SCCP Sessions: 0, Connections: 0
The table below describes significant fields shown in this output.
```

Table 22: show sccp connections summary Field Descriptions

Field	Description
Connections	Displays the total number of current connections associated with a given application.
Total Conferencing Sessions	Displays the number of current conferencing sessions.
Total MTP Sessions	Displays the number of current Media Termination Point (MTP) sessions.
Total SCCP Sessions	Displays the number of current SCCP sessions.
Total Transcoding Sessions	Displays the number of current transcoding sessions.

Related Commands

ſ

Command	Description
dspfarm profile	Enters DSP farm profile configuration mode and defines a profile for DSP farm services.
sccp ccm	Adds a Cisco CallManager server to the list of available servers and sets various parameters.
show sccp connections details	Displays the SCCP connection details.
show sccp connections internal	Displays the internal SCCP details.

show sccp server statistics

To display the statistical counts on the Skinny Client Control Protocol (SCCP) server, use the **show sccp server statistics** command in privileged EXEC mode.

show sccp server statistics

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.4(15)XY
 This command was introduced.

Usage Guidelines Configure the show sccp server statistics command on the Cisco Unified Border Element, IP-to-IP Gateway, or Session Border Controller where no SCCP phone is registered, to show the statistical counts on the SCCP server. The counts display queuing errors and message drops on the transcoder alone when it is on the Cisco Unified Border Element, IP-to-IP Gateway, or Session Border Controller.

When the **show sccp server statistics** command is used on the Cisco Unified Manager Express (CME), it is recommended for use together with the **clear sccp server statistics** command.

Examples

Ies The following example shows the SCCP statistical counts on the server:

Router# show sccp server statistics Failure type Error count Send queue enqueue 2 Socket send 3 Msg discarded upon error 5 Field descriptions should be self-explanatory.

Related Commands

Command	Description		
clear sccp server statistics	Clears the counts displayed the under show sccp server statistics command.		
	server stausues command.		

show sdspfarm

To display the status of the configured digital signal processor (DSP) farms and transcoding streams, use the **show sdspfarm** command in privileged EXEC mode.

show sdspfarm {units [name unit-name| register| summary| tag number| unregister]| sessions [active| callID number| states| statistics| streamID number| summary]| message statistics} [video]

Syntax Description

units	Displays the configured and registered DSP farms.				
name unit-name	(Optional) Displays the name of the unit.				
register	(Optional) Displays information about the registered units.				
summary	(Optional) Displays summary information about the units.				
tag number	(Optional) Displays the tag number of the unit.				
unregister	(Optional) Displays information about the unregistered units.				
sessions	Displays the transcoding streams.				
active	(Optional) Displays all active sessions.				
callID	(Optional) Displays activities for a specific caller ID.				
number	(Optional) The caller ID number displayed by the show voip rtp connection command.				
states	(Optional) Displays the current state of the transcoding stream.				
statistics	(Optional) Displays session statistics.				
streamID number	(Optional) Displays the transcoding stream sequence number.				
summary	(Optional) Displays summary information.				
message	Displays message information.				
statistics	Displays statistics information about the messages.				
video	(Optional) Displays information on video streams.				

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.3(11)T	This command was introduced.
	12.4(22)T	The following combinations of keywords and arguments were added: name , <i>unit-name</i> , register , summary , tag <i>number</i> , unregister , states , streamID <i>number</i> , message statistics .
	15.1(4)M	The video keyword was added.

Examples

The following example displays the configured and registered DSP farms:

```
Router# show sdspfarm units

mtp-1 Device:MTP123456782012 TCP socket:[-1] UNREGISTERED

actual_stream:0 max_stream 0 IP:0.0.0.0 0 Unknown 0 keepalive 0

mtp-2 Device:MTP000a8aeaca80 TCP socket:[5] REGISTERED

actual_stream:40 max_stream 40 IP:10.5.49.160 11001 MTP YOKO keepalive 12074

Supported codec:G711Ulaw

G711Alaw

G729

G729a

G729b

G729ab

max-mtps:2, max-streams:240, alloc-streams:40, act-streams:0
```

The following is sample output from the show sdspfarm sessions activecommand:

```
Router# show sdspfarm sessions active

Stream-ID:3 mtp:2 192.0.2.0 20174 Local:2000 START

usage:MoH (DN=3 , CH=1) FE=TRUE

codec:G729 duration:20 vad:0 peer Stream-ID:4

Stream-ID:4 mtp:2 192.0.2.0 17072 Local:2000 START

usage:MoH (DN=3 , CH=1) FE=FALSE

codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:3
```

The following is sample output from the show sdspfarm sessions callID command:

```
Router# show sdspfarm sessions callID 51

Stream-ID:6, srcCall-ID:51, codec:G729AnnexA, dur:20ms, vad:0, dstCall-ID:52, confID:5,

mtp:2^

Peer Stream-ID:5, srcCall-ID:52, codec:G711Ulaw64k, dur:20ms, vad:0, dstCall-ID:51, confID:5,

mtp:2^

Router-2015# show sdspfarm sessions callid 52

Stream-ID:5, srcCall-ID:52, codec:G711Ulaw64k, dur:20ms, vad:0, dstCall-ID:51, confID:5,

mtp:2

Peer Stream-ID:6, srcCall-ID:51, codec:G729AnnexA, dur:20ms, vad:0, dstCall-ID:52, confID:5,

mtp:2

The following is sample output from the show sdspfarm sessions statisticscommand:
```

```
Router# show sdspfarm sessions statistics
Stream-ID:1 mtp:2 0.0.0.0 0 Local:0IDLE
codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0
recv-pak:0 xmit-pak:0 out-pak:1014 in-pak:0 discard:0
Stream-ID:2 mtp:2 0.0.0.0 0 Local:0IDLE
codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0
```

recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:3 mtp:2 10.5.49.160 20174 Local:2000START MoH (DN=3 , CH=1) FE=TRUE codec:G729 duration:20 vad:0 peer Stream-ID:4 recv-pak:0 xmit-pak:0 out-pak:4780 in-pak:0 discard:0 Stream-ID:4 mtp:2 10.5.49.160 17072 Local:2000START MoH (DN=3 , CH=1) FE=FALSE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:3 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:5 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:6 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:7 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:8 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:9 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:10 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:11 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:12 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:13 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:14 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:15 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:16 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:17 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:18 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:19 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:20 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:21 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:22 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:23 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:24 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:25 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:26 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0

Stream-ID:27 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:28 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:29 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:30 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:31 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0
Stream-ID:32 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:33 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:34 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:35 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:36 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:37 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:38 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:39 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0 Stream-ID:40 mtp:2 0.0.0.0 0 Local:0IDLE codec:G711Ulaw64k duration:20 vad:0 peer Stream-ID:0 recv-pak:0 xmit-pak:0 out-pak:0 in-pak:0 discard:0

The following is sample output from the **show sdspfarm sessions summary** command:

ID	MTP	State	creams:240, a CallID	confID		ct-	-strear	ns:2	Codec/Duration
ID ==== - 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MTP						CH=1)	FE=TRUE	Codec/Duration G711Ulaw64k /20ms G7129 /20ms G7120 /20ms G711Ulaw64k /20ms
21 22 23	2 2 2 2	IDLE IDLE IDLE IDLE	-1 -1 -1 -1	0 0 0 0					G711Ulaw64k /20ms G711Ulaw64k /20ms G711Ulaw64k /20ms G711Ulaw64k /20ms G711Ulaw64k /20ms

Router# show sdspfarm sessions summary

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25	2	IDLE	-1	0	G711Ulaw64k /20ms
26	2	IDLE	-1	0	G711Ulaw64k /20ms
27	2	IDLE	-1	0	G711Ulaw64k /20ms
28	2	IDLE	-1	0	G711Ulaw64k /20ms
29	2	IDLE	-1	0	G711Ulaw64k /20ms
30	2	IDLE	-1	0	G711Ulaw64k /20ms
31	2	IDLE	-1	0	G711Ulaw64k /20ms
32	2	IDLE	-1	0	G711Ulaw64k /20ms
33	2	IDLE	-1	0	G711Ulaw64k /20ms
34	2	IDLE	-1	0	G711Ulaw64k /20ms
35	2	IDLE	-1	0	G711Ulaw64k /20ms
36	2	IDLE	-1	0	G711Ulaw64k /20ms
37	2	IDLE	-1	0	G711Ulaw64k /20ms
38	2	IDLE	-1	0	G711Ulaw64k /20ms
39	2	IDLE	-1	0	G711Ulaw64k /20ms
40	2	IDLE	-1	0	G711Ulaw64k /20ms

The table below describes the fields shown in the **show sdspfarm** command display.

Table 23: show sdspfarm Field Descriptions

Description				
Active streams that are involved in calls.				
Number of transcoding streams that are actually allocated to all DSP farms that are registered to Cisco CME.				
Caller ID that the active stream is in.				
Codec in use.				
ConfID that is used to communicate with DSP farms.				
Number of packets that are discarded.				
Caller ID of the destination IP call leg.				
Packet rates, in milliseconds.				
Transcoding stream sequence number in Cisco CME.				
Number of incoming packets from the source call leg.				
Local port for voice packets.				
Maximum number of Message Transfer Parts (MTPs) that are allowed to register in Cisco CME.				
Maximum number of transcoding streams that are allowed in Cisco CME.				
MTP sequence number where the transcoding stream is located.				

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Field	Description
out-pak	Number of outgoing packets sending to source call leg.
peer Stream-ID	Stream sequence number of the other stream paired in the same transcoding session. (Two transcoding streams make up a transcoding session).
recv-pak	Number of voice packets received from the DSP farm.
srcCall-ID	Source caller ID of the source IP call leg.
State	Current state of the transcoding stream; could be IDLE, SEIZE, START, STOP, or END.
Stream-ID	Transcoding stream sequence number in Cisco CME.
TCP socket	Socket number for DSP farm (similar to TCP socket for show ephone output).
usage	Current usage of the stream; for example, Ip-Ip (IP to IP transcoding), Moh (for MOH transcoding) and Conf (conference).
vad	Voice-activity detection (VAD) flag for the transcoding stream. It should always be 0 (False).
xmit-pak	Number of packets that are sent to the DSP farm.

Related Commands

Command	Description
sdspfarm tag	Permits a DSP farm to be to registered to Cisco CME and be associated with an SCCP client interface's MAC address.
sdspfarm transcode sessions	Specifies the maximum number of transcoding sessions allowed per Cisco CME router.
sdspfarm units	Specifies the maximum number of DSP farms that are allowed to be registered to Cisco CME.

show settlement

To display the configuration for all settlement servers and see specific provider and transactions, use the **show** settlement command in privileged EXEC mode.

show settlement [provider-number [transactions]]

Syntax Description	provider -number	(Optional) Displays the attributes of a specific provider.
	transactions	(Optional) Displays the transaction status of a specific provider.

Command Default Information about all servers is displayed.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	12.0(4)XH1	This command was introduced on the Cisco 2600 series, Cisco 3600 series, and Cisco AS5300.
	12.1(1)T	This command was integrated into Cisco IOS Release 12.1(1)T.

Examples

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The following is sample output from this command displaying information about all settlement servers that are configured:

```
Router# show settlement
Settlement Provider 0
Type = osp
Address url = https://1.14.115.100:6556/
Encryption = all
                                  (default)
Max Concurrent Connections = 20 (default)
Connection Timeout = 3600 (s)
                                  (default)
Response Timeout = 1 (s)
                                  (default)
Retry Delay = 2 (s)
Retry Limit = 1
                                  (default)
                                  (default)
Session Timeout = 86400 (s)
                                  (default)
Customer Id = 1000
Device Id = 1000
Roaming = Disabled
                                  (default)
Signed Token = on
Number of Connections = 0
Number of Transactions = 7
```

The following is sample output from this command displaying transaction and state information about a specific settlement server:

```
Router# show settlement 0 transactions
Transaction ID=8796304133625270342
state=OSPC_GET_DEST_SUCCESS, index=0
callingNumber=5710868, calledNumber=15125551212
```

The table below describes significant fields shown in this output. Provider attributes that are not configured are not shown.

Table 24: show settlement Field Descriptions

Field	Description
type	Settlement provider type.
address url	URL address of the provider.
encryption	SSL encryption method.
max-connections	Maximum number of concurrent connections to provider.
connection-timeout	Connection timeout with provider (in seconds).
response-timeout	Response timeout with provider (in seconds).
retry-delay	Delay time between retries (in seconds).
retry-limit	Number of retries.
session-timeout	SSL session timeout (in seconds).
customer-id	Customer ID, assigned by provider.
device-id	Device ID, assigned by provider.
roaming	Roaming enabled.
signed-token	Indicates if the settlement token is signed by the server.

Related Commands

Command	Description
connection -timeout	Configures the time that a connection is maintained after a communication exchange is completed.
customer -id	Identifies a carrier or ISP with a settlement provider.

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Command	Description
device -id	Specifies a gateway associated with a settlement provider.
encryption	Sets the encryption method to be negotiated with the provider.
max -connection	Sets the maximum number of simultaneous connections to be used for communication with a settlement provider.
response -timeout	Configures the maximum time to wait for a response from a server.
retry -delay	Sets the time between attempts to connect with the settlement provider.
session -timeout	Sets the interval for closing the connection when there is no input or output traffic.
settlement	Enters settlement configuration mode and specifies the attributes specific to a settlement provider.
type	Configures an SAA-RTR operation type.

show sgcp connection

To display all active Simple Gateway Control Protocol (SGCP) connections on a router, use the **show sgcp connection**command in EXEC mode.

show sgcp connection [interface number]

Cuntox Description			
Syntax Description	interface		(Optional) Displays output for a particular DS1
			interface.
	number		(Optional) Interface (controller) number.
Command Default	All active SGCP conne	ections on the host are displaye	ed.
Command Modes	EXEC (>)		
Command History	Release	Modification	
	12.0(5)T	This command was intro and was not generally av	oduced in a private release on the Cisco AS5300 only vailable.
	12.0(7)XK		lemented on the Cisco MC3810 and Cisco 3600 series 20) in a private release that was not generally available.
Examples	The following is sampl	e output from thiscommand di	splaying active connections on a router:
		l_ID(C) Conn_ID(I) (P)ort C=1,1,2 I=0x1 P=16	(M) ode (S) tate (E) vent[SIFL] (R) esult[EA] 492,16476 M=3 S=4 E=3,0,0,3 R=0, 0 isplaying the state of SGCP on a router:

Router# show sgcp connection SGCP Admin State DOWN, Oper State DOWN SGCP call-agent: 209.165.200.225 , SGCP graceful-shutdown enabled? FALSE SGCP request timeout 40, SGCP request retries 10 The table below describes significant fields shown in this output.

Table 25: show sgcp connection Field Descriptions

Field	Description
SGCP Admin State	Administrative and operational state of the SGCP daemon.
SGCP call-agent	Address of the call agent specified with the sgcp command.
SGCP graceful-shutdown enabled	The state of the sgcp graceful-shutdown command.
SGCP request timeout	The setting for the sgcp request timeout command.
SGCP request retries	The setting for the sgcp request retries command.

Related Commands

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Command	Description
show sgcp endpoint	Displays SGCP endpoint information.
show sgcp statistics	Displays global statistics for the SGCP packet count, success, and failure counts.

show sgcp endpoint

To display Simple Gateway Control Protocol (SGCP) endpoints that are eligible for SGCP management, use the **show sgcp endpoint** command in EXEC mode.

show sgcp endpoint [interface ds1 [ds0]]

Syntax Description	interface ds1	(Optional) DS1 interface for which to display SGCP endpoint information. Range is from 1 to 1000.
	ds0	(Optional) DS0 interface for which to display SGCP endpoint information. Range is from 0 to 30.

Command Modes EXEC (#)

Command History	Release	Modification
	12.0(5)T	This command was introduced in a private release on the Cisco AS5300 only and was not generally available.
	12.0(7)XK	This command was implemented on the Cisco MC3810 and Cisco 3600 series (except for the Cisco 3620) in a private release that was not generally available.

Usage Guidelines	Use this command to display SGCP endpoint information for the whole router or for a specific DS1 interface
	and, optionally, a specific DS0. If you enter a nonexistent combination of a DS1 and DS0, the following error
	message appears: "No matching connection found."

Examples The following is sample output from this command displaying SGCP endpoint information being set for a matching connection between DS1 interface 1 and DS0 interface 10:

Router# show sgcp endpoint interface 1 10

Related Commands

nds	Command	Description
	show sgcp connection	Displays all the active connections on the host router.
	show sgcp statistics	Displays global statistics for the SGCP packet count, success, and failure counts.

show sgcp statistics

To display global statistics for the Simple Gateway Control Protocol (SGCP) packet count, success and failure counts, and other information, use the **show sgcp statistics** command in EXEC mode.

show sgcp statistics

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** EXEC (#)

Command History	Release	Modification
	12.0(7)XK	This command was introduced on the Cisco MC3810 and Cisco 3600 series (except for the Cisco 3620) in a private release that was not generally available.
	12.0(5)T	This command was implemented on the Cisco AS5300 only in a private release that was not generally available.

Usage Guidelines You can filter the displayed output, as shown in the examples.

Examples

The following is sample output from this command displaying SGCP packet statistics:

```
Router# show sgcp statistics
UDP pkts rx 5, tx 13
Unrecognized rx pkts 0, SGCP message parsing errors 0
Duplicate SGCP ack tx 0
Failed to send SGCP messages 0
CreateConn rx 1, successful 1, failed 0
DeleteConn rx 0, successful 0, failed 0
ModifyConn rx 0, successful 0, failed 0
DeleteConn tx 0, successful 0, failed 0
NotifyRequest rx 3, successful 3, failed 0
Notify tx 3, successful 3, failed 0
ACK tx 4, NACK tx 0
ACK rx 1, NACK rx 0
IP address based Call Agents statistics:
IP address 1.4.63.100, Total msg rx 5,
                   successful 5, failed 2
```

The following is sample output from this command showing how to filter output for specific information:

Router# show sgcp statistics | begin Failed Failed to send SGCP messages 0 CreateConn rx 0, successful 0, failed 0 DeleteConn rx 0, successful 0, failed 0 ModifyConn rx 0, successful 0, failed 0 NotifyRequest rx 0, successful 0, failed 0 NotifyTx 0, successful 0, failed 0 ACK tx 0, NACK tx 0 ACK rx 0, NACK rx 0

```
Router# show sgcp statistics | exclude ACK

UDP pkts rx 0, tx 0

Unrecognized rx pkts 0, SGCP message parsing errors 0

Duplicate SGCP ack tx 0

Failed to send SGCP messages 0

CreateConn rx 0, successful 0, failed 0

DeleteConn rx 0, successful 0, failed 0

ModifyConn rx 0, successful 0, failed 0

DeleteConn tx 0, successful 0, failed 0

NotifyRequest rx 0, successful 0, failed 0

Notify tx 0, successful 0, failed 0

Router# show sgcp statistics | include ACK

ACK tx 0, NACK tx 0

ACK rx 0, NACK rx 0
```

Related Commands

Command	Description
show sgcp connection	Displays all the active connections on the host Cisco AS5300 universal access server.
show sgcp endpoint	Displays SGCP endpoint information.

show shared-line

To display information about the Session Initiation Protocol (SIP) shared lines, use the **show shared-line** command in user EXEC or privileged EXEC mode.

show shared-line {call| details| subscription| summary}

Syntax Description

call	Displays information about all active calls on shared lines.
details	Displays detailed information about each shared line.
subscription	Displays information for specific subscriptions to shared lines.
summary	Displays summary information about active subscriptions to shared lines.

Command Modes User EXEC (>) Privileged EXEC (#)

Command History	Release	Modification
	12.4(24)T	This command was introduced.

Examples

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The following is sample output from the **show shared-line call** command:

Router# show sha Shared-Line acti Shared-Line: '20 Local User	ve call info: 141', active calls: 3 Local Address	Remote User	Remote Address	CallID
======== 20141	20141@10.6.0.2	20143	20143@10.10.0.1	3168
20141	20141010.6.0.1	Barge	20143@10.10.0.1	3209
20141	20141010.6.0.2	20141	20141010.10.0.1	3210

The following is sample output from the **show shared-line details** command:

Router# **show shared-line details** Shared-Line info details:

Shared-Line: Index	'20141', subscribed Users	users: 2, sub id	max calls limit: 10 peer tag	Status
=====				======
1	20141@10.6.0.1	5	40001	ACTIVE
2	20141010.6.0.2	6	40002	ACTIVE
Free call qu	eue size: 7, Active	call queue	size: 3	

Message queue size: 20, Event queue size: 64

The following is sample output from the show shared-line subscription command:

	Router# show shared-line subscription Shared-Line Subscription Info:			
Subscript SubID	ions to: '20141', Subscriber	total subscriptions: 2 Expires	Sub-Status	
54515	5055011501		545 554545	
			NORTEN AGVED	
5	20141@10.6.0.1	3600	NOTIFY_ACKED	
6	20141@10.6.0.2	3600	NOTIFY_ACKED	

The following is sample output from the show shared-line summary command:

```
Router# show shared-line summary
Shared-Line info summary:
Shared-Line: '20141', subscribed users: 2, max calls limit: 10
```

The table below describes the significant fields shown in the displays.

Table 26: show shared-line Field Descriptions

Field	Description
Expires	Number of seconds until the subscription expires.
Local Address	IP address of the local phone involved in the shared line call.
Local User	Extension number of the shared line.
Remote Address	IP address of the remote phone involved in the shared line call.
Remote User	Extension of the remote phone involved in the shared line call.
SubID	Subscription ID.
Subscriber	Extension number of the shared line and the IP address of the phone subscriber.
Sub-Status	Status of the subscription.
Users	IP addresses of the phones using the shared line.

Related Commands

Command	Description
debug shared-line	Displays debugging information about SIP shared lines.

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show sip dhcp

To display the Session Initiation Protocol (SIP) parameters retrieved via the Dynamic Host Configuration Protocol (DHCP), use the **show sip dhcp** command in privileged EXEC mode.

show sip dhcp

- **Syntax Description** This command has no arguments or keywords.
- **Command Modes** Privileged EXEC (#)

 Command History
 Release
 Modification

 12.4(22)YB
 This command was introduced.

 15.0(1)M
 This command was integrated in Cisco IOS Release 15.0(1)M.

Usage Guidelines If SIP parameters are configured to be retrieved via DHCP, use the show sip dhcp command to display the SIP parameters retrieved.

Examples

The following is sample output from the show sip dhcp command:

Router# show sip dhcp SIP UAC DHCP Info SIP-DHCP interface: GigabitEthernet0/0 SIP server address: ipv4:9.13.2.36 Pilot number: 777777 Domain name: dns:cisco.com Secondary number: 222222 Secondary number: 333333 Secondary number: 44444 Secondary number: 555555 Secondary number: 666666

Table 1 describes the significant fields shown in the display.

Field	Description
SIP-DHCP interface	Indicates the type and number of the interface assigned to be used for SIP provisioning via DHCP.
SIP server address	Displays the address of the SIP server configured on the DHCP server and retrieved via DHCP.

Field	Description
Pilot number	Displays the pilot or contract number retrieved via DHCP and registered with the SIP server. Registration is done only for the pilot number.
Domain name	Indicates the domain name of the SIP server. The Cisco Unified Border Element will try to resolve this domain name by Domain Name System (DNS) into a routable layer 3 IP address for sending Register and Invite messages.
Secondary number	Indicates the first five secondary or additional numbers retrieved from the DHCP server. Secondary numbers are not registered with the SIP server.

Related Commands

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Command	Description
debug ccsip dhcp	Displays information on SIP and DHCP interaction for debugging DHCP provisioning of SIP parameters.