



A APPENDIX

MIBs, RFCs, and SNMP Trap Messages for the Cisco TelePresence System

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Note

Use the information in this Appendix with the [SNMP Configuration Parameters Area](#) section of “Configuring a Cisco TelePresence Device” section on page 1-6.

Contents

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CTS SNMP Trap Message Matrix

Turning on a specific MIB enables an SNMP trap. [Table A-1](#) lists MIBs, RFCs, and SNMP trap messages that are supported by the Cisco TelePresence System (CTS). SNMP MIB files can be found in the following directories:

- SNMP version 1 MIB files are in the v1 directory.
- SNMP version 2 MIB files are in the v2 directory.



Note

For every MIB.my in the v2 directory, there is an SNMP version 1 MIB-V1SMI.my in the v1 directory.

■ CTS SNMP Trap Message Matrix

Table A-1 CTS MIBs, RFCs, and SNMP Trap Messages

MIB File	Trap Name	RFCs
CISCO-TELEPRESENCE-MIB.my	ctpPeripheralDeviceCategoryCode	—
	ctpPeripheralDeviceNumber	
	ctpPeripheralPowerCode	
	ctpPeriStatusChangeNotification	
	Note Replaces ctpPeripheralErrorNotification	
	ctpPeripheralCableCode	
	ctpSystemResetMode	
CISCO-TELEPRESENCE-CALL-MIB.my	ctpcAttributes (BITS)	—
	ctpcRemoteDeviceType	
	ctpcCodecType	
	ctpcTxFrameRate / ctpcRxFrameRate	
	ctpcMgmtSysConnStatus	
	ctpcMgmtSysSIPRespCode	
	ctpcMgmtSysConnFailNotification	
	ctpcStatNotificaion	
	ctpPeripheralErrorNotification	
	Note Replaced with ctpPeriStatusChangeNotification in CTS 1.7.0	

Table A-1 CTS MIBs, RFCs, and SNMP Trap Messages

MIB File	Trap Name	RFCs
CISCO-ENVMON-MIB.my	ciscoEnvMonTempStatusChangeNotif	—
CISCO-SYSLOG-MIB.my	clogMessageGenerated	—
SNMPv2-MIB.my	<ul style="list-style-type: none"> • coldStart • warmStart • authenticationFailure 	—
CISCO-SYSLOG-MIB.my	—	—
HOST-RESOURCES-MIB.my	—	—
IF-MIB.my	—	—
SNMP-FRAMEWORK-MIB.my	—	RFC 2571
SNMP-MPD-MIB.my	—	RFC 2572
SNMP-NOTIFICATION-MIB.my	—	RFC 2573
SNMP-TARGET-MIB.my	—	RFC 2573
SNMP-USM-MIB.my	—	RFC 2574
SNMP-VACM-MIB.my	—	RFC 2575
SNMPv2-MIB.my	—	—
SYSAPPL-MIB.my	—	—
RFC1213-MIB.my	—	—
TCP-MIB.my	—	—
UDP-MIB.my	—	—

Configuration Management Messages

Table A-2 lists configuration management messages.

Table A-2 Configuration Management

Notification	Action
ctpPeripheralErrorNotifyEnable	Notify <ul style="list-style-type: none"> • True (1) • False (2)
ctpSysUserAuthFailNotifyEnable	Reset <ul style="list-style-type: none"> • noRestart (1)—Read or written • restartPending (2)—Read or written • resetPending (3)—Read or written • forceReset (4)—Written but not read
ctpSystemReset	Reset <ul style="list-style-type: none"> • noRestart (1)—Read or written • restartPending (2)—Read or written • resetPending (3)—Read or written • forceReset (4)—Written but not read

Peripheral Status Messages

[Table A-3](#) lists peripheral status messages.

Table A-3 Peripheral Status

Notification	Return Values
ctpPeripheralDescription	<p>This object specifies a description of the attached peripheral. Peripheral description may be the peripheral type, model and/or version information or a peripheral signal description.</p> <p>Reports the following system details:</p> <ul style="list-style-type: none"> • Projector Product ID • IP Phone MIDlet information • Phone load and MIDlet version for phone status
ctpPeripheralCableCode	<p>The textual convention identifies cable status of the attached peripheral through HDMI:</p> <ul style="list-style-type: none"> • plugged (1)—Peripheral cable is plugged. • loose (2)—Peripheral cable is loose. • unplugged (3)—Peripheral cable is unplugged. • unknown (4)—Cannot detect peripheral cable status. • internalError (5)—Internal error.
ctpPeripheralPowerCode	<p>The textual convention identifies power status of the attached peripheral through HDMI:</p> <ul style="list-style-type: none"> • on (1)—Peripheral power is on. • standby (2)—Peripheral power is in standby mode. • off (3)—Peripheral power is off. • unknown (4)—Cannot detect peripheral power status. • internalError (5)—Internal error.

Table A-3 Peripheral Status (continued)

Notification	Return Values
ctpPeripheralDeviceCategory — Designates a device category.	<ul style="list-style-type: none"> • unknown (0)—Unknown Device • other (1)—None of the listed device • uplinkDevice (2)—Device attached to CTS uplink port • ipPhone (3)—IP phone • camera (4)—Camera • display (5)—Display • secCodec (6)—CTS secondary codec • docCamera (7)—Document camera • projector (8)—Projector • dviDevice (9)—Device attached to DVI port • presentationCodec (10)—CTS codec process presentation stream • auxiliaryControlUnit (11)—Auxiliary control unit • audioExpansionUnit (12)—Audio expansion unit • microphone (13)—Microphone • headset (14)— Headset • positionMic (15)—Position microphone • digitalMediaSystem (16)—Digital Media System • auxHDMIOutputDevice (17)—Auxiliary HDMI output device
ctpPeripheralDeviceNumber — Specifies a device number for a peripheral.	—
ctpPeripheralStatus — General information about a single peripheral	<ul style="list-style-type: none"> • noError (0)—Expected peripheral device is functioning through the attached port. • other (1)—None of the states listed. • cableError (2)—Expected peripheral device has a cabling issue. • powerError (3)—Expected peripheral device has a power issue. • mgmtSysConfigError (4)—Expected peripheral device has a communications management system configuration issue. • systemError (5)—Cisco Telepresence system error. • deviceError (6)—Expected peripheral device is attached but is not fully functional. • linkError (7)—Expected peripheral device has a port level link issue.

Example

```
CISCO-TELEPRESENCE-MIB::ctpPeripheralDescription.1 = STRING: UP_LINK
CISCO-TELEPRESENCE-MIB::ctpPeripheralDescription.7 = STRING: AUX_CAM --
CISCO-TELEPRESENCE-MIB::ctpPeripheralStatus.1 = INTEGER: noError(0)
CISCO-TELEPRESENCE-MIB::ctpPeripheralStatus.7 = INTEGER: cableError(2)
CISCO-TELEPRESENCE-MIB::ctpPeripheralStatus.13 = INTEGER: other(1)
```

Peripheral Status Messages

Table A-3 Peripheral Status (continued)

Notification	Return Values
CtpPeripheralStatusCode	<ul style="list-style-type: none"> commError
ctpEtherPeripheralStatus — Information about a single peripheral attached through an ethernet port.	<ul style="list-style-type: none"> noError (0)—Expected peripheral device is functioning through the attached port. other (1)—None of the states listed. cableError (2)—Expected peripheral device has a cabling issue. powerError (3)—Expected peripheral device has a power issue. mgmtSysConfigError (4)—Expected peripheral device has a communications management system configuration issue. systemError (5)—Cisco Telepresence system error. deviceError (6)—Expected peripheral device is attached but is not fully functional. linkError (7)—Expected peripheral device has a port level link issue. <p>Example</p> <pre>CISCO-TELEPRESENCE-MIB::ctpEtherPeripheralIfIndex.1.1 = INTEGER: 7 CISCO-TELEPRESENCE-MIB::ctpEtherPeripheralAddrType.1.1 = INTEGER: ipv4(1) CISCO-TELEPRESENCE-MIB::ctpEtherPeripheralAddr.1.1 = STRING: "10.16.123.4" CISCO-TELEPRESENCE-MIB::ctpEtherPeripheralStatus.1.1 = INTEGER: noError (0)</pre>
ctpHDMIPeripheralStatus — Information about a single peripheral attached through the HDMI port.	<p>Cable</p> <ul style="list-style-type: none"> plugged (1)—Peripheral cable is plugged. loose (2)—Peripheral cable is loose. unplugged (3)—Peripheral cable is unplugged. unknown (4)—Cannot detect peripheral cable status. internalError(5)—Internal error. <p>Power</p> <ul style="list-style-type: none"> on (1)—Peripheral power is on. standby (2)—Peripheral power is in standby mode. off (3)—Peripheral power is off. unknown (4)—Cannot detect peripheral power status. internalError (5)—Internal error. <p>Example</p> <pre>CISCO-TELEPRESENCE-MIB::ctpHDMIPeripheralCableStatus.3.1 = INTEGER: plugged(1) CISCO-TELEPRESENCE-MIB::ctpHDMIPeripheralPowerStatus.4.1 = INTEGER: standby(2) CISCO-TELEPRESENCE-MIB::ctpHDMIPeripheralPowerStatus.7.1 = INTEGER: off(3)</pre>

Table A-3 Peripheral Status (continued)

Notification	Return Values
ctpDVIPeripheralStatus— Information about a single peripheral attached through a DVI port.	<p>Cable</p> <ul style="list-style-type: none"> • plugged (1)—Peripheral cable is plugged. • loose (2)—Peripheral cable is loose. • unplugged (3)—Peripheral cable is unplugged. • unknown (4)—Cannot detect peripheral cable status. • internalError(5)—Internal error. <p>Power</p> <ul style="list-style-type: none"> • on (1)—Peripheral power is on. • standby (2)—Peripheral power is in standby mode. • off (3)—Peripheral power is off. • unknown (4)—Cannot detect peripheral power status. • internalError (5)—Internal error. <p>Example</p> <pre>CISCO-TELEPRESENCE-MIB::ctpDVIPeripheralCableStatus.9.1 = INTEGER: plugged(1)</pre>

■ Event History Messages

Table A-3 Peripheral Status (continued)

Notification	Return Values
ctpRS232PeripheralStatus — Information about a single peripheral attached through an RS232 port.	<ul style="list-style-type: none"> • connected (1)—Peripheral connection via RS232 is working properly. • unknown (2)—Peripheral connection via RS232 is not working properly. It may due to device problem or connection problem. <p>Example</p> <pre>CISCO-TELEPRESENCE-MIB::ctpRS232PortIndex.8.1 = INTEGER: 1 CISCO-TELEPRESENCE-MIB::ctpRS232PeripheralConnStatus.8.1 = INTEGER: connected(1)</pre>
ctpPeripheralAttribute — Peripheral attribute of the lamp and switch.	<p>Description</p> <ul style="list-style-type: none"> • lampOperTime(1)—The lamp operating time of a peripheral, in hours. • lampState(2)—The lamp state. • powerSwitchState(3)—Power on/off state of a peripheral. <p>Value</p> <ul style="list-style-type: none"> • lampOperTime—(0..4294967295) • lampState—on(1), off(2), failure(3), unknown(4) • powerSwitchState—on(1), off(2), unknown(3) <p>Example</p> <pre>CISCO-TELEPRESENCE-MIB::ctpPeripheralAttributeDescr.8.1 = INTEGER: lampOperTime(1) CISCO-TELEPRESENCE-MIB::ctpPeripheralAttributeDescr.8.2 = INTEGER: lampState(2) CISCO-TELEPRESENCE-MIB::ctpPeripheralAttributeDescr.11.1 = INTEGER: powerSwitchState(3)</pre>

Event History Messages

Table A-4 lists event history notification messages.

Table A-4 Event History

Notification	Return Value
ctpPeripheralErrorHistTableSize —Fixed at 0	Example
ctpPeripheralErrorHistLastIndex —Value of the last ctpPeripheralErrorHistoryIndex	CISCO-TELEPRESENCE-MIB::ctpPeripheralErrorHistTableSize.0 = Gauge32: 0 CISCO-TELEPRESENCE-MIB::ctpPeripheralErrorHistLastIndex.0 = Gauge32: 15
ctpSysUserAuthFailHistTableSize —Fixed at 0	CISCO-TELEPRESENCE-MIB::ctpSysUserAuthFailHistTableSize.0 = Gauge32: 0
ctpSysUserAuthFailHistLastIndex —Value of the last ctpSysUserAuthFailHistoryIndex	CISCO-TELEPRESENCE-MIB::ctpSysUserAuthFailHistLastIndex.0 = Gauge32: 2

Trap Notification Messages

[Table A-5](#) lists trap notification messages.

Table A-5 Trap Notification

Trap	Type
ctpSysUserAuthFailAccessProtocol —User authentication failure access protocol.	<ul style="list-style-type: none"> ctpSysUserAuthFailSourceType—Type of address contained in the corresponding instance. ctpSysUserAuthFailSourceAddr—Source address when the user authentication failure occurred. ctpSysUserAuthFailSourcePort—Source TCP/UDP port number. ctpSysUserAuthFailUserName—User name that was used to gain system access. ctpSysUserAuthFailAccessProtocol—Access protocol: http(1), snmp(2), ssh(3).
ctpPeripheralStatus —General info about single peripheral	<ul style="list-style-type: none"> ctpPeripheralErrorIndex—Value of ctpPeripheralIndex. ctpPeripheralErrorStatus—Peripheral status when error occurred. <p>Return Values</p> <ul style="list-style-type: none"> noError—cableError, powerError, mgmtSysConfigError, systemError, deviceError, linkError other—cableError, powerError, mgmtSysConfigError, systemError, deviceError, linkError

Cisco TelePresence Call (CTPC) MIBs

CTPC call MIBs allow you to make a call through the SNMP MIB. Cisco TelePresence Call MIBs include the following:

- [Call Attributes MIBs, page A-10](#)
- [Call Configuration Group MIBs, page A-11](#)
- [Call Information Group MIBs, page A-12](#)
- [Call Receive and Transmit MIBs, page A-13](#)
- [Cisco Unified Communications Manager Call MIBs, page A-13](#)
- [Remote Device Type MIBs, page A-14](#)
- [Codec Type MIBs, page A-15](#)
- [Call Statistics Group MIBs, page A-15](#)
- [Call Event History Group MIBs, page A-19](#)
- [Call Notification Group MIBs, page A-19](#)

Call Attributes MIBs

[Table A-7](#) lists Cisco TelePresence Call Attributes MIBs.

Table A-6 *Call Attributes MIBs*

MIB	Type
Attributes	
ctpcAttributes (BITS)	<ul style="list-style-type: none"> • interop (0) • highDefinitionInterop (1) • webEx (2) • schedule (3) • satellite (4) • t1 (5) • liveDesk (6)

Call Configuration Group MIBs

Table A-7 lists Cisco TelePresence Call Configuration Group MIBs.

Table A-7 Call Configuration Group MIBs

MIB	Type
Trap Notification Enable	
ciscoTpCallConfigurationGroup	<ul style="list-style-type: none"> • ctpcStatNotifyEnable • ctpcMgmtSysConnNotifyEnable
Monitoring Threshold Configuration	
ciscoTpCallConfigurationGroup	<ul style="list-style-type: none"> • ctpcStatRisingThreshold • ctpcStatFallingThreshold • ctpcStatStartupAlarm • ctpcStatMonitoredStatus
Monitoring Types	
ciscoTpCallConfigurationGroup	<ul style="list-style-type: none"> • latency.all (200ms) • jitter.video (20ms) • jitter.audio (20ms) • jitter.all (apply the thresholds for both video and audio streams) • packetLoss.video (0.1%) • packetLoss.audio (0.1%) • packetLoss.all (apply the thresholds for both video and audio streams) • authFailurePacket.all (1)

CTPC Configuration Examples



Note Configure a longer period of time for **snmpwalk** to obtain the peripheral status in real time so that it will not timeout. For example:

```
snmpwalk -t 10 <cts_ip> ctpPeripheralStatus
```

Trap Notification Enabling

```
#>snmpset cts1 ctpcStatNotifyEnable.0 i 1
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatNotifyEnable.0 = INTEGER: true(1)
```

Using default values

```
#>snmpset cts1 ctpcStatMonitoredStatus.latency.all i 5
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.latency.all = INTEGER:
createAndWait(5)

#>snmpwalk cts1 CtpcStatMonitoredEntry
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredUnit.latency.all = INTEGER: milliseconds(1)
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatRisingThreshold.latency.all = Gauge32: 200
```

Cisco TelePresence Call (CTPC) MIBs

```

CISCO-TELEPRESENCE-CALL-MIB::ctpcStatFallingThreshold.latency.all = Gauge32: 180
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatStartupAlarm.latency.all = INTEGER:
risingOrFallingAlarm(3)
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.latency.all = INTEGER:
notInService(2)

#>snmpset cts1 ctpcStatMonitoredStatus.latency.all i 1
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.latency.all = INTEGER: active(1)

```

Disable Monitoring

```

#>snmpset cts1 ctpcStatMonitoredStatus.latency.all i 2
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.latency.all = INTEGER:
notInService(2)

#>snmpset cts1 ctpcStatMonitoredStatus.latency.all i 6
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.latency.all = INTEGER: destroy(6)

```

Call Information Group MIBs

[Table A-8](#) lists Cisco TelePresence Call Information Group MIBs.

Table A-8 *Call Information Group MIBs*

MIB	Type
ciscoTpCallInformation	<ul style="list-style-type: none"> • ctpcLocalDirNumTable—CTS can associate to more than 1 directory number • ctpcMode (CUCM mode) • ctpcActiveMgmtSysIndex • ctpcMgmtSysTable <ul style="list-style-type: none"> – ctpcMgmtSysAddrType – ctpcMgmtSysAddr

Call Receive and Transmit MIBs

[Table A-7](#) lists Call Receive and Transmit MIBs.

Table A-9 Call Receive and Transmit MIBs

MIB	Type
Attributes	
ctpcTxFrameRate	New auxiliary stream to support 1fps, 5fps and 30fps that supports the following new call states:
ctpcRxFrameRate	<ul style="list-style-type: none"> • busy (17) • pause (18) • playback (19) • recording (20)

Cisco Unified Communications Manager Call MIBs

- [Call Management Connection Status MIBs, page A-13](#)
- [Call Management System Response Code MIBs, page A-14](#)

Call Management Connection Status MIBs

[Table A-7](#) lists Call Management Connection Status MIBs.

Table A-10 Call Management Connection Status MIBs

MIB	Type
Attributes	
ctpcMgmtSysConnStatus	<p>Displays the Cisco Unified CM registration status:</p> <ul style="list-style-type: none"> • unknown (1) • other (2) • internalError (3) • notRegister (4) • registered (5) • registrationFailure (6)

Call Management System Response Code MIBs

[Table A-7](#) lists Call Management System Response Code MIBs.

Table A-11 Call Management System Response Code MIBs

MIB	Type
Attributes	
ctpcMgmtSysSIPRespCode	Cisco Unified CM registration SIP response code. Notification is sent if the Cisco Unified CM registration status changes.

Remote Device Type MIBs

[Table A-7](#) lists Remote Device Type MIBs.

Table A-12 Call Attributes MIBs

MIB	Type
Attributes	
CtpcRemoteDeviceType	<ul style="list-style-type: none"> • unknown (1) • other (2) • audioDevice (3) • videoLegacyDevice (4) • highDefinitionLegacyDevice (5) • singleTelepresence (6) • tripleTelepresence (7) • telepresenceMultipointSwitch (8) • telepresenceRecordingServer (9) • telepresenceTranscodingDevice (10)

Codec Type MIBs

[Table A-7](#) lists Codec Type MIBs.

Table A-13 *Codec Type MIBs*

MIB	Type
Attributes	
CtpcCodecType	<ul style="list-style-type: none"> • unknown (1) • other (2) • aaclc (3) • aacld (4) • g711A (5) • g711U (6) • g722 (7) • g7221 (8) • g728 (9) • g729 (10) • h263 (11) • h264 (12)

Call Statistics Group MIBs

This section contains the following Call Status Group information:

- [CTPC Statistics Group MIB, page A-15](#)
- [CTPC Statistics Objects and Tables, page A-16](#)
- [CTPC Statistics Stream Type Table MIB, page A-17](#)
- [CTPC Statistics Stream SourceTable MIB, page A-17](#)

CTPC Statistics Group MIB

[Table A-14](#) lists Cisco TelePresence Call Statistics Group MIBs.

Table A-14 *Call Statistics Group MIBs*

MIB	Type
ciscoTpCallStatisticsGroup	<ul style="list-style-type: none"> • <code>ctpcStatObjects</code> • <code>ctpcTable</code> • <code>ctpcStatStreamTypeTable</code> • <code>ctpcStatStreamSourceTable</code>

CTPC Statistics Objects and Tables

This section contains the following information tables:

- [Call Statistics, page A-16](#)
- [Call Control, page A-16](#)
- [Miscellaneous Call Control, page A-17](#)

Call Statistics

[Table A-15](#) contains CTPC statistics for a CTS.

Table A-15 *CTPC Statistics*

Call Statistics for a CTS	Type
—	<ul style="list-style-type: none"> • ctpcStatOverallCalls • ctpcStatOverallCallTime • ctpcStatTotalCalls • ctpcStatTotalCallTime

Call Control

[Table A-16](#) contains call control information.

Table A-16 *Call Information and Control*

Call Specific Information and Call Control	Type
—	<ul style="list-style-type: none"> • ctpcRemoteDirNum • ctpcLocalSIPCallId • ctpcTxDestAddr • ctpcStartDateAndTime • ctpcDuration • ctpcType • ctpcSecurity • ctpcDirection • ctpcState • ctpcInitialBitRate • ctpcLatestBitRate • ctpcRowStatus <p>Note Call entry cannot be destroyed once it is created. The oldest call entry will be removed once the maximum table size is reached.</p>

Miscellaneous Call Control

[Table A-17](#) contains extra call control information.

Table A-17 *Miscellaneous Call Information and Control*

Call Specific Information and Call Control	Type
—	<ul style="list-style-type: none"> • ctpcSamplePeriod • ctpcTableSize • ctpcTableLastIndex

CTPC Statistics Stream Type Table MIB

For an Audio/Visual call, both video and audio streams will be shown; otherwise, only audio streams are shown.

[Table A-18](#) lists Statistics Stream Type Table MIBs.

Table A-18 *Statistics Stream Type Table MIBs*

MIB	Type
ctpcStatStreamTypeTable	<ul style="list-style-type: none"> • ctpcAvgPeriodLatency • ctpcAvgCallLatency • ctpcMaxPeriodLatency • ctpcMaxCallLatency • ctpcMaxCallLatencyRecTime <p>Note Statistical data is reset if a call is placed on hold.</p>

CTPC Statistics Stream SourceTable MIB

The Number of stream source is based on the CTS model and call type:

- CTS 1000 has only center and aux stream sources.
- CTS 3000 and CTS 3200 have center, left, right, and auxiliary stream sources.
- Legacy CTS stream statistics are shown on all CTS models for A/V calls for the following:
 - Outbound video(3) and audio(1) statistics.
 - Inbound audio(1) statistics.



Note It is up to CCA to turn on/off the legacy streams.

[Table A-18](#) lists Statistics Stream Source Table MIBs.

Table A-19 Statistics Stream Source Table MIB

MIB	Type
ctpcStatStreamSourceTable	<ul style="list-style-type: none"> • ctpcTxActive • ctpcTxTotalBytes • ctpcTxTotalPackets • ctpcTxLostPackets • ctpcTxPeriodLostPackets • ctpcTxCallLostPackets • ctpcTxIDRPPackets • ctpcTxShapingWindow • ctpcRxActive • ctpcRxTotalBytes • ctpcRxTotalPackets • ctpcRxLostPackets • ctpcRxPeriodLostPackets • ctpcRxCallLostPackets • ctpcRxOutOfOrderPackets • ctpcRxDuplicatePackets • ctpcRxLatePackets • ctpcRxIDRPPackets • ctpcRxShapingWindow • ctpcRxCallAuthFailure • ctpcAvgPeriodJitter • ctpcAvgCallJitter • ctpcMaxPeriodJitter • ctpcMaxCallJitter • ctpcMaxCallJitterRecTime

Call Event History Group MIBs

[Table A-20](#) lists Cisco TelePresence Call Event History Group MIBs.

Table A-20 Call Event History Group MIBs

MIB	Type
ciscoTpCallEventHistoryGroup	<ul style="list-style-type: none"> • ctpcStatEventHistTableSize – always set to 0 • ctpcStatEventHistLastIndex • ctpcStatEventHistoryTable • ctpcStatEventMonObjectInst • ctpcStatEventCrossedValue • ctpcStatEventCrossedType • ctpcStatEventTimeStamp

Call Notification Group MIBs

[Table A-21](#) lists Cisco TelePresence Call Notification Group MIBs.

Table A-21 Call Notification Group MIBs

MIB	Type
ciscoTpCallNotificationGroup	<ul style="list-style-type: none"> • ctpcMgmtSysConnFailNotification <ul style="list-style-type: none"> – ctpcMgmtSysAddrType – ctpcMgmtSysAddr • ctpcStatNotificaion <ul style="list-style-type: none"> – ctpcStatEventMonObjectInst – ctpcStatEventCrossedValue – ctpcStatEventCrossedType

Call Statistics Trap Notification Examples



Note Configure a longer period of time for **snmpwalk** to obtain the peripheral status in real time so that it will not timeout. For example:

```
snmpwalk -t 10 <cts_ip> ctpPeripheralStatus
```

Threshold Setting

```
#>snmpwalk -m ALL cochan-cts4 ctpcStatMonitoredTable
```

```
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredUnit.jitter.audio = INTEGER: milliseconds(1)
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatRisingThreshold.jitter.audio = Gauge32: 2
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatFallingThreshold.jitter.audio = Gauge32: 1
```

■ Supported Call States MIBs

```
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatStartupAlarm.jitter.audio = INTEGER:  
risingOrFallingAlarm(3)  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatMonitoredStatus.jitter.audio = INTEGER: active(1)  
  
2008-08-19 21:31:58 <UNKNOWN> [UDP: [172.28.28.24]:32793]:  
SNMPv2-MIB::sysUpTime.0 = Timeticks: (4431) 0:00:44.31  
SNMPv2-MIB::snmpTrapOID.0 = OID: CISCO-TELEPRESENCE-CALL-MIB::ctpcStatNotificaion  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventMonObjectInst.1 = OID:  
CISCO-TELEPRESENCE-CALL-MIB::ctpcAvgCallJitter.1.audio.priCodec  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventCrossedValue.1 = Opaque: UInt64: 3  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventCrossedType.1 = INTEGER: risingThreshold(1)  
2008-08-19 21:32:38 <UNKNOWN> [UDP: [172.28.28.24]:32793]:  
SNMPv2-MIB::sysUpTime.0 = Timeticks: (8433) 0:01:24.33  
SNMPv2-MIB::snmpTrapOID.0 = OID: CISCO-TELEPRESENCE-CALL-MIB::ctpcStatNotificaion  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventMonObjectInst.4 = OID:  
CISCO-TELEPRESENCE-CALL-MIB::ctpcAvgCallJitter.1.audio.priCodec  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventCrossedValue.4 = Opaque: UInt64: 0  
CISCO-TELEPRESENCE-CALL-MIB::ctpcStatEventCrossedType.4 = INTEGER: fallingThreshold(2)
```

Supported Call States MIBs

Table A-22 contains supported call states MIBs.

Table A-22 *Supported Call States MIBs*

MIB	Type
ctpcStateCode	<ul style="list-style-type: none"> • unknown(1) • other(2) • noMgmtSysConn(3) • noDialTone(4) • invalidNumber(5) • ringing(6) • noAnswer(7) • inProgress(8) • remoteHold(9) • shareLineActive(10) • inLocalConference(11) • terminatedbyError(12) • localHold(13) • terminatedNormally(14) • answer(15) • resume(16)

SNMP Objects Value Persistence

SNMP objects are reset to pre-saved values when SNMPPD is restarted. Supported objects are listed in [Table A-23](#). Command-line interface (CLI) is used to preserve the pre-set values for the objects listed in, as described in the “[SNMP Objects Value Persistence CLI](#)” section on page [A-21](#).

Table A-23 *SNMP Objects Value Persistence*

Supported Devices and Applications	Object Type
CTS	<ul style="list-style-type: none"> • CTMS/CTS-MAN objects • ciscoEnvMonEnableStatChangeNotif • ctpPeripheralErrorNotifyEnable • ctpSysUserAuthFailNotifyEnable • ctpPeripheralErrorHistTableSize • ctpSysUserAuthFailHistTableSize • ctpcStatNotifyEnable • ctpcMgmtSysConnNotifyEnable • ctpcStatMonitoredTable (all active rows) • ctpcStatEventHistTableSize
CTMS and CTS-Man	<ul style="list-style-type: none"> • clogNotificationsEnabled • clogMaxSeverity • clogHistTableMaxLength

SNMP Objects Value Persistence CLI

The following commands are supported in admin mode:

Command	Description
help utils snmp save	Saves a set of current SNMP object values. The saved values replace the object default values when SNMPPD is restarted.
snmp save help	
help utils snmp reset	Resets SNMP default values. Current SNMP objects value will not be affected. The default values are used the next time SNMPPD is restarted.
snmp reset help	



Tip

Remember to save your settings for reboot so that you do not have to load the entire code again.

SNMP Special Characters

[Table A-24](#) lists special SNMP characters that are supported on the Cisco Unified CM Administration interface.

Table A-24 Supported SNMP Graphic User Interface Characters

Character	Description
1	Number one
2	Number two
@	“At” symbol
#	Number sign or hash mark
\$	Currency symbol. Note No longer supported in Cisco Unified CM password strings. Cisco recommends that you do not use this symbol in any of your Cisco TelePresence passwords.
%	Percent symbol
^	Carat symbol
*	Asterisk
()	Left and right parenthesis
—	M-dash
-	hyphen
+	Plus sign
/	Forward slash
?	Question mark
{ }	Wavy brackets
[]	Straight brackets
,	Comma
.	Period
h	Letter h of the alphabet, lower case
F	Letter F of the alphabet, upper case
E	Letter E of the alphabet, upper case