



## Performance Objects and Counters

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This appendix comprises a complete list, including descriptions, of the performance objects and their associated counters that are used in the Cisco CallManager bundled applet, Real-Time Monitoring Tool (RTMT), and in the Microsoft Performance (also known as PerfMon) application. For more detailed about objects and counters, see the [“Performance Objects and Counters” section on page 2-1](#) and [“Microsoft Performance” section on page 12-1](#).

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## Cisco ACB Device

The Cisco Application-Controlled Bridge (ACB) Device object provides information about registered Cisco application-controlled bridge devices.

**Table C-1 Cisco ACB Device**

<b>Counters</b>	<b>Counter Descriptions</b>
ConferencesActive	This counter represents the number of currently active conferences for application-controlled bridge device. This counter increases when the application requests that Cisco CallManager initiate a conference, not when the first call is connected to bridge.
ConferencesCompleted	This counter represents the number of conferences that have been allocated and released on application-controlled bridge device. A conference starts when the application requests that Cisco CallManager initiate a conference. The conference completes when the application requests that Cisco CallManager terminate a conference.
IVRSessionsActive	This counter represents the number of currently active (in use) interactive voice response (IVR) sessions on application-controlled bridge device. Each IVR session uses one resource.
IVRSessionsCompleted	This counter represents the number of IVR sessions that have been allocated and released (completed) on application-controlled bridge device.
ResourceActive	This counter represents the number of resources that are currently active (in use) for application-controlled bridge device.
ResourceAvailable	This counter represents the number of resources that are not active and are still available to be used at the current time for application-controlled bridge device.

**Table C-1 Cisco ACB Device (continued)**

Counters	Counter Descriptions
ResourceReserved	This counter represents the number of resources that have been reserved for application-controlled bridge device. A reserved resource represents one that the application has dedicated to a particular ongoing conference.
ResourceTotal	This counter represents the total number of resources that are configured for application-controlled bridge device. The total number of resources equals the sum of the ResourceAvailable and ResourceReserved counters.

## Cisco Analog Access

The Cisco Analog Access object provides information about registered Cisco Analog Access gateways.

**Table C-2 Cisco Analog Access**

Counters	Counter Descriptions
OutboundBusyAttempts	This counter represents the total number of times that Cisco CallManager attempts a call through the Analog Access gateway when all ports were busy.
PortsActive	This counter represents the number of ports that are currently in use (active). A port appears active when a call is in progress on that port.
PortsOutOfService	This counter represents the number of ports that are currently out of service. Counter applies only to loop-start and ground-start trunks.

# Cisco Annunciator Device

The Cisco Annunciator Device object provides information about registered Cisco annunciator devices.

**Table C-3** *Cisco Annunciator Device*

Counters	Counter Descriptions
OutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate an annunciator resource from an annunciator device and failed; for example, because all resources were already in use.
ResourceActive	This counter represents the total number of annunciator resources that are currently active (in use) for an annunciator device.
ResourceAvailable	This counter represents the total number of resources that are not active and are still available to be used at the current time for the annunciator device.
ResourceTotal	This counter represents the total number of annunciator resources that are configured for an annunciator device.

# Cisco CallManager

The Cisco CallManager object provides information about calls, applications, and devices that are registered with the Cisco CallManager.

**Table C-4 Cisco CallManager**

<b>Counters</b>	<b>Counter Descriptions</b>
ACBConferencesActive	This counter represents the total number of active conferences on all ACB devices that are registered with a Cisco CallManager. This counter increases when the application requests that Cisco CallManager initiate a conference (not when the first call connects to bridge).
ACBConferenceCompleted	This counter represents the total number of conferences that have been allocated and released on all ACB devices that are registered with a Cisco CallManager. A conference starts when the application requests that Cisco CallManager initiate a conference. The conference completes when the application requests that Cisco CallManager terminate a conference.
ACBIVRSessionsActive	This counter represents the total number of active (in use) IVR sessions on all ACB devices that are registered with a Cisco CallManager.
ACBIVRSessionsCompleted	This counter represents the total number of IVR sessions that have been allocated and released (completed) on all ACB devices. An IVR session designates a temporary, one-party conference before the participant joins a regular conference.
ACBResourceActive	This counter represents the total number of resources that are currently active (in use) on all ACB devices that are registered with a Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
ACBResourceAvailable	This counter represents the total number of resources that are not in use and are available to be allocated on all ACB devices that are registered with a Cisco CallManager.
ACBResourceReserved	This counter represents the total number of reserved resources for all ongoing conferences on all ACB devices that are registered with a Cisco CallManager. A reserved resource designates one that the application has dedicated to a particular ongoing conference. The sum of the counters ACBResourceReserved and ACBResourceAvailable equal the value for the ACBResourceTotal counter.
ACBResourceTotal	This counter represents the total number of resources that are provided by all ACB devices registered with a Cisco CallManager. The total number of resources equals the sum of the ACBResourceAvailable and the ACBResourceReserved counters.
AnnunciatorOutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate an annunciator resource from those that are registered to a Cisco CallManager when none were available.
AnnunciatorResourceActive	This counter represents the total number of annunciator resources that are currently in use on all annunciator devices that are registered with a Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

Counters	Counter Descriptions
AnnunciatorResourceAvailable	This counter represents the total number of annunciator resources that are not active and are currently available.
AnnunciatorResourceTotal	This counter represents the total number of annunciator resources that are provided by all annunciator devices that are currently registered with Cisco CallManager.
AuthenticatedCallsActive	This counter represents the number of authenticated calls that are currently active (in use) on Cisco CallManager. An authenticated call designates one in which all the endpoints that are participating in the call are authenticated. An authenticated phone uses the Transport Layer Security (TLS) authenticated Skinny protocol signaling with Cisco CallManager.
AuthenticatedCallsCompleted	This counter represents the number of authenticated calls that connected and subsequently disconnected through Cisco CallManager. An authenticated call designates one in which all the endpoints that are participating in the call are authenticated. An authenticated phone uses the TLS authenticated Skinny protocol signaling with Cisco CallManager.
AuthenticatedRegisteredPhones	This counter represents the total number of authenticated phones that are registered to Cisco CallManager. An authenticated phone uses the TLS authenticated Skinny protocol signaling with Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
BRChannelsActive	This counter represents the number of BRI voice channels that are in an active call on this Cisco CallManager.
BRISpansInService	This counter represents the number of BRI spans that are currently available for use.
CallManagerHeartBeat	This counter represents the heartbeat of Cisco CallManager. This incremental count indicates that Cisco CallManager is up and running. If the count does not increment, that indicates that Cisco CallManager is down.
CallsActive	This counter represents the number of voice or video streaming connections that are currently in use (active); in other words, the number of calls that actually have a voice path that is connected on Cisco CallManager.
CallsAttempted	This counter represents the total number of attempted calls. An attempted call occurs any time that a phone goes off hook and back on hook, regardless of whether any digits were dialed, or whether it connected to a destination. Some call attempts during feature operations (such as transfer and conference) that are considered attempted calls.
CallsCompleted	This counter represents the number of calls that were actually connected (a voice path or video stream was established) through Cisco CallManager. This number increases when the call terminates.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsInProgress	This counter represents the number of voice or video calls that are currently in progress on Cisco CallManager, including all active calls. When a phone goes off hook, this action creates a call in progress until it goes back on hook. When all voice or video calls that are in progress are connected, the number of CallsInProgress equate the number of CallsActive.
FXOPortsActive	This counter represents the number of FXO ports that are currently in use (active) on a Cisco CallManager.
FXOPortsInService	This counter represents the number of FXO ports that are currently available for use in the system.
FXSPortsActive	This counter represents the number of FXS ports that are currently in use (active) on a Cisco CallManager.
FXSPortsInService	This counter represents the number of FXS ports that are currently available for use in the system.
HuntListsInService	This counter represents the number of hunt lists that are currently in service on Cisco CallManager.
HWConferenceActive	This counter represents the total number of hardware conference resources that are provided by all hardware conference bridge devices that are currently registered with Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
HWConferenceCompleted	This counter represents the total number of conferences that used a hardware conference bridge (hardware-based conference devices such as Cisco Catalyst 6000, Cisco Catalyst 4000, Cisco VG200, Cisco series 26xx and 36xx) that is allocated from Cisco CallManager and that have completed, which means that the conference bridge has been allocated and released. A conference activates when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.
HWConferenceOutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate a hardware conference resource from those that are registered to a Cisco CallManager when none were available.
HWConferenceResourceActive	This counter represents the total number of conference resources that are in use on all hardware conference devices (such as Cisco Catalyst 6000, Catalyst 4000, Cisco VG200, Cisco series 26xx and 36xx) that are registered with Cisco CallManager. System considers conference to be active when one or more calls are connected to a bridge.

**Table C-4 Cisco CallManager (continued)**

Counters	Counter Descriptions
HWConferenceResourceAvailable	This counter represents the number of hardware conference resources that are not in use and that are available to be allocated on all hardware conference devices (such as Cisco Catalyst 6000, Cisco Catalyst 4000, Cisco VG200, Cisco series 26xx and 36xx) that are registered with this Cisco CallManager. Each conference resource represents the availability of three available full-duplex streams on this Cisco CallManager. One resource equals one stream.
HWConferenceResourceTotal	This counter represents the number of active conferences on all hardware conference devices that are registered with Cisco CallManager.
InitializationState	This counter represents the current state of the Cisco CallManager initialization. The following values specify initialization states: 1-Database; 2-Regions; 3-Locations; 4-Calling Search Space; 5-Time Of Day; 6-AAR Neighborhoods; 7-Digit Analysis; 8-Route Plan; 9-Call Control; 10-Supplementary Services; 11-Directory; 12-SDL Link; 13-Device; 100-Initialization Complete. Not all states display using this counter. This is not an error; it simply indicates that the state(s) were processed to completion within the refresh period of the performance monitor.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
MOHTotalMulticastResources	This counter represents the total number of multicast MOH resources or connections that are provided by all MOH servers that are currently registered with a Cisco CallManager.
MOHMulticastResourceActive	This counter represents the total number of multicast MOH resources that are currently in use (active) on all MOH servers that are registered with a Cisco CallManager.
MOHMulticastResourceAvailable	This counter represents the total number of active multicast MOH connections that are not being used on all MOH servers that are registered with a Cisco CallManager.
MOHOutOfResources	This counter represents the total number of times that the Media Resource Manager attempted to allocate an MOH resource when all available resources on all MOH servers that are registered with a Cisco CallManager were already active.
MOHTotalUnicastResources	This counter represents the total number of unicast MOH resources or streams that are provided by all MOH servers that are currently registered with Cisco CallManager. Each MOH unicast resource uses one stream.
MOHUnicastResourceActive	This counter represents the total number of unicast MOH resources that are currently in use (active) on all MOH servers that are registered with Cisco CallManager. Each MOH unicast resource uses one stream.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
MOHUnicastResourceAvailable	This counter represents the total number of unicast MOH resources that are currently available on all MOH servers that are registered with Cisco CallManager. Each MOH unicast resource uses one stream.
MTPOutOfResources	This counter represents the total number of times Cisco CallManager attempted but failed to allocate an MTP resource from one MTP device that is registered with Cisco CallManager. This also means that no transcoders were available to act as MTPs.
MTPResourceActive	This counter represents the total number of MTP resources that are currently in use (active) on all MTP devices that are registered with a Cisco CallManager. Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.
MTPResourceAvailable	This counter represents the total number of MTP resources that are not in use and are available to be allocated on all MTP devices that are registered with Cisco CallManager. Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.
MTPResourceTotal	This counter represents the total number of media termination point (MTP) resources that are provided by all MTP devices that are currently registered with Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
PRChannelsActive	This counter represents the number of PRI voice channels that are in an active call on a Cisco CallManager.
PRISpansInService	This counter represents the number of PRI spans that are currently available for use.
RegisteredAnalogAccess	This counter represents the number of registered Cisco analog access gateways that are registered with system. The count does not include the number of Cisco analog access ports.
RegisteredHardwarePhones	This counter represents the number of Cisco hardware IP phones (for example, models Cisco IP Phone 7960, 7940, 7910, and so on.) that are currently registered in the system.
RegisteredMGCPGateway	This counter represents the number of MGCP gateways that are currently registered in the system.
RegisteredOtherStationDevices	This counter represents the number of station devices other than Cisco hardware IP phones that are currently registered in the system (for example, Cisco IP SoftPhone, CTI port, CTI route point, Cisco voice-mail port).
SWConferenceActive	This counter represents the number of active conferences on all software conference devices that are registered with Cisco CallManager.

**Table C-4 Cisco CallManager (continued)**

Counters	Counter Descriptions
SWConferenceCompleted	This counter represents the total number of conferences that used a software conference bridge that was allocated from a Cisco CallManager and that have been completed, which means that the conference bridge has been allocated and released. A conference activates when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.
SWConferenceOutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate a software conference resource from those that are registered to Cisco CallManager when none were available. Counter includes failed attempts to add a new participant to an existing conference.
SWConferenceResourceActive	This counter represents the total number of conference resources that are in use on all software conference devices that are registered with Cisco CallManager. The system considers a conference to be active when one or more calls connect to a bridge.
SWConferenceResourceAvailable	This counter represents the number of new software-based conferences that can be started at the same time, for Cisco CallManager. You must have a minimum of three streams available for each new conference.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
SWConferenceResourceTotal	This counter represents the total number of software conference resources that are provided by all software conference bridge devices that are currently registered with Cisco CallManager.
T1SpansInService	This counter represents the number of T1 CAS spans that are currently available for use.
T1ChannelsActive	This counter represents the number of T1 CAS voice channels that are in an active call on a Cisco CallManager.
TranscoderOutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate a transcoder resource from a transcoder device that is registered to a Cisco CallManager when none were available.
TranscoderResourceActive	This counter represents the total number of transcoders that are in use on all transcoder devices that are registered with Cisco CallManager. A transcoder in use represents one transcoder resource that has been allocated for use in a call. Each transcoder resource uses two streams.
TranscoderResourceAvailable	This counter represents the total number of transcoders that are not in use and that are available to be allocated on all transcoder devices that are registered with Cisco CallManager. Each transcoder resource uses two streams.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
TranscoderResourceTotal	This counter represents the total number of transcoder resources that are provided by all transcoder devices that are currently registered with Cisco CallManager.
VCBConferencesActive	This counter represents the total number of active video conferences on all video conference bridge devices that are registered with Cisco CallManager.
VCBConferencesAvailable	This counter represents the total number of new video conferences on all video conference bridge devices that are registered with Cisco CallManager.
VCBConferencesCompleted	This counter represents the total number of video conferences that used a video conference bridge that are allocated from Cisco CallManager and that have been completed, which means that the conference bridge has been allocated and released. A conference activates when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.
VCBConferencesTotal	This counter represents the total number of video conferences that are supported on all video conference bridge devices that are registered with Cisco CallManager.
VCBOutOfResources	This counter represents the total number of failed new video conference requests. A conference request can fail because, for example, the configured number of conferences is already in use.

**Table C-4 Cisco CallManager (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
VCBOutOfConferences	This counter represents the total number of times that Cisco CallManager attempted to allocate a video conference resource from those that are registered to Cisco CallManager when none were available.
VCBResourceActive	This counter represents the total number of video conference resources that are currently in use on all video conference devices that are registered with Cisco CallManager.
VCBResourceAvailable	This counter represents the total number of video conference resources that are not active and are currently available.
VCBResourceTotal	This counter represents the total number of video conference resources that are provided by all video conference bridge devices that are currently registered with Cisco CallManager.
VideoCallsActive	This counter represents the number of active video calls with active video streaming connections on all video conference bridge devices that are registered with Cisco CallManager.
VideoCallsCompleted	This represents the number of video calls that were actually connected with video streams and then released.
VideoOutOfResources	This counter represents the total number of times that Cisco CallManager attempted to allocate a video-streaming resource from one of the video conference bridge devices that is registered to Cisco CallManager when none were available.

# Cisco CallManager System Performance

The Cisco CallManager System Performance object provides system performance information about Cisco CallManager.

**Table C-5 Cisco CallManager System Performance**

Counters	Counter Descriptions
AverageExpectedDelay	This counter represents the current average expected delay before any incoming message gets handled.
CallsRejectedDueToCallThrottling	This counter represents the total number of calls that were rejected since the start of service due to call throttling.
CallThrottlingGenericCounter1	This counter represents a generic counter that is used for call-throttling purpose.
CallThrottlingGenericCounter2	This counter represents a generic counter that is used for call-throttling purpose.
CallThrottlingGenericCounter3	This counter represents a generic counter that is used for call-throttling purpose.
CodeRedEntryExit	This counter indicates whether Cisco CallManager has entered or exited a Code Red state (call-throttling mode). Valid values include 0 (Exit) and 1 (Entry).
CodeYellowEntryExit	This counter indicates whether Cisco CallManager has entered or exited a Code Yellow state (call-throttling mode). Valid values include 0 (Exit) and 1 (Entry).
EngineeringCounter1	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.

**Table C-5 Cisco CallManager System Performance (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
EngineeringCounter2	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter3	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter4	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter5	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter6	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter7	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
EngineeringCounter8	Do not use this counter unless directed by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.

**Table C-5 Cisco CallManager System Performance (continued)**

Counters	Counter Descriptions
QueueSignalsPresent 1-High	<p>This counter indicates the number of high-priority signals in the Cisco CallManager queue. High priority signals include timeout events, internal Cisco CallManager KeepAlives, certain gatekeeper events, and internal process creation, among other events. A large number of high priority events will cause degraded performance on Cisco CallManager, result in slow call connection or loss of dial tone. Use this counter in conjunction with the QueueSignalsProcessed 1-High counter to determine the processing delay on Cisco CallManager.</p>
QueueSignalsPresent 2-Normal	<p>This counter indicates the number of normal-priority signals in the Cisco CallManager queue. Normal-priority signals include call-processing functions, key presses, on-hook and off-hook notifications, among other events. A large number of normal priority events will cause degraded performance on Cisco CallManager, sometimes resulting in delayed dial tone, slow call connection, or loss of dial tone. Use this counter in conjunction with the QueueSignalsProcessed 2-Normal counter to determine the call-processing delay on Cisco CallManager. Remember that high-priority signals must complete before normal-priority signals begin to process, so check the high-priority counters as well to get an accurate picture of the potential delay.</p>

**Table C-5 Cisco CallManager System Performance (continued)**

Counters	Counter Descriptions
QueueSignalsPresent 3-Low	This counter indicates the number of low-priority signals in the Cisco CallManager queue. Low-priority signals include station device registration (except the initial station registration request message), among other events. A large number of signals in this queue could result in delayed device registration, among other events.
QueueSignalsPresent 4-Lowest	This counter indicates the number of lowest priority signals in the Cisco CallManager queue. Lowest priority signals include the initial station registration request message during device registration, among other events. A large number of signals in this queue could result in delayed device registration, among other events.
QueueSignalsProcessed 1-High	This counter indicates the number of high-priority signals that are processed by Cisco CallManager for each 1-second interval. Use this counter in conjunction with the QueueSignalsPresent 1-High counter to determine the processing delay on this queue.
QueueSignalsProcessed 2-Normal	This counter indicates the number of normal-priority signals that are processed by Cisco CallManager for each 1-second interval. Use this counter in conjunction with the QueueSignalsPresent 2-Normal counter to determine the processing delay on this queue. Remember that high-priority signals get processed before normal-priority signals.

**Table C-5 Cisco CallManager System Performance (continued)**

Counters	Counter Descriptions
QueueSignalsProcessed 3-Low	This counter indicates the number of low-priority signals that are processed by Cisco CallManager for each 1-second interval. Use this counter in conjunction with the QueueSignalsPresent 3-Low counter to determine the processing delay on this queue. The number of signals processed gives an indication of how much device registration activity is being processed in this time interval.
QueueSignalsProcessed 4-Lowest	This counter indicates the number of lowest priority signals that are processed by Cisco CallManager for each 1-second interval. Use this counter in conjunction with the QueueSignalsPresent 4-Lowest counter to determine the processing delay on this queue. The number of signals processed gives an indication of how many devices began the Cisco CallManager registration process in this time interval.
QueueSignalsProcessed Total	This counter provides a sum total of all queue signals that are processed by Cisco CallManager for each 1-second period for all queue levels: high, normal, low, and lowest.
SkinnyDevicesThrottled	This counter represents the total number of Skinny devices that are being throttled. A Skinny device gets throttled (asked to shut down and reregister) when the total number of events that the Skinny device generated exceeds the configured maximum threshold value (default value specifies 2000 events) within a 5-second time.

# Cisco CTI Manager

The Cisco CTI Manager object provides information about Cisco CTI Manager.



**Table C-6 Cisco CTI Manager**

<b>Counters</b>	<b>Counter Descriptions</b>
CcmLinkActive	This counter represents the total number of active Cisco CallManager links. CTI Manager maintains links to all active Cisco CallManagers in the cluster.
CTIConnectionActive	This counter represents the total number of CTI clients that are currently connected to the CTI Manager. This counter increases by one when new connection is established and decreases by one when a connection is released. The CTI Manager service parameter MaxCTIConnections determines the maximum number of active connections.
DevicesOpen	This counter represents the total number of devices that are configured in Cisco CallManager that CTI applications control and/or monitor. Devices include hardware IP phones, CTI ports, CTI route points, and so on.
LinesOpen	This counter represents the total number of lines that are configured in Cisco CallManager that control and/or monitor CTI applications.
QbeVersion	This counter represents the version number of the Quick Buffer Encoding (QBE) interface that the CTI Manager uses.

# Cisco Extension Mobility

The Cisco Extension Mobility object provides information about the extension mobility application.

**Table C-7 Cisco Extension Mobility Application**

Counters	Counter Descriptions
<p>RequestsHandled</p>  <p><b>Note</b> Prior to Cisco CallManager Release 4.0, this counter was called Num. of requests handled.</p>	<p>This counter represents the total number of HTTP requests that the extension mobility handled since the last restart of the Cisco CallManager service. A typical login would constitute two HTTP requests: one to query the initial login state of the device, and another to log in the user on a device. Similarly, a typical logout also results in two HTTP requests.</p>
<p>RequestsInProgress</p>  <p><b>Note</b> Prior to Cisco CallManager Release 4.0, this counter was called Current Sessions.</p>	<p>This counter represents the number of HTTP requests that are currently being handled by the extension mobility. A typical login would constitute two HTTP requests: one to query the initial login state of the device, and another to log in the user on a device. Similarly, a typical logout also results in two HTTP requests.</p>

# Cisco Gatekeeper

The Cisco Gatekeeper object provides information about registered Cisco gatekeeper devices.

**Table C-8 Cisco Gatekeeper**

<b>Counters</b>	<b>Counter Descriptions</b>
ACFsReceived	This counter represents the total number of RAS Admission Confirm messages that are received from the configured gatekeeper and its alternate gatekeepers.
ARQsAttempted	This counter represents the total number of RAS Admission Request messages that are attempted by using the configured gatekeeper and its alternate gatekeepers.
RasRetries	This counter represents the number of retries due to loss or delay of all RAS acknowledgement messages on the configured gatekeeper and its alternate gatekeepers.
VideoOutOfResources	This counter represents the total number of video-stream requests to the configured gatekeeper or its alternate gatekeepers that failed, most likely due to lack of bandwidth.

## Cisco H.323

The Cisco H.323 object provides information about registered Cisco H.323 devices.

**Table C-9 Cisco H.323**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsActive	This counter represents the number of streaming connections that are currently active (in use) on the configured H.323 device; in other words, the number of calls that actually have a voice path connected.
CallsAttempted	This counter represents the total number of calls that have been attempted on a device, including both successful and unsuccessful call attempts.
CallsCompleted	This counter represents the total number of successful calls that were made from a device.
CallsInProgress	This counter represents the number of calls that are currently in progress on a device.
VideoCallsActive	This counter represents the number of video calls with video streaming connections that are currently active (in use) on all H.323 trunks that are registered with a Cisco CallManager; in other words, the number of calls that actually have video-streaming connections on a Cisco CallManager.
VideoCallsCompleted	This counter represents the number of video calls that were actually connected with video streams for all H.323 trunks that were registered with a Cisco CallManager. This number increases when the call terminates.

## Cisco Hunt Lists

The Cisco Hunt Lists object provides information about the hunt lists that are defined in Cisco CallManager administration.

**Table C-10 Cisco Hunt Lists**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsAbandoned	This counter represents the number of abandoned calls that occurred through a hunt list. An abandoned call represents one in which a caller hangs up before the call is answered.
CallsActive	This counter represents the number of calls that are currently active (in use) that occurred through a hunt list. An active call represents one that gets distributed and answered, and to which a voice path connects.
CallsBusyAttempts	This counter represents the number of times that calls through a hunt list were attempted when all members of the line and/or route groups were busy.
CallsInProgress	This counter represents the number of calls that are currently in progress through a hunt list. A call in progress represents one that the Call Distributor is attempting to extend to a member of a line or route group and that has not yet been answered. Examples of a hunt list member include a line, a station device, a trunk device, or a port/channel of a trunk device.
CallsRingNoAnswer	This counter represents the total number of calls through a hunt list that rang but that called parties did not answer.

Table C-10 Cisco Hunt Lists (continued)

Counters	Counter Descriptions
HuntListInService	This counter specifies whether the particular hunt list is currently in service. A value of 0 indicates that the hunt list is out of service; a value of 1 indicates that the hunt list is in service. A hunt list could be out of service because the hunt list is not running on a primary Cisco CallManager based on its Cisco CallManager Group or because the hunt list has been disabled in Cisco CallManager Administration.
MembersAvailable	This counter represents the total number of available or idle members of line and route groups that belong to an in-service hunt list. An available member currently handles a call and will accept a new call. An idle member does not handle any call and will accept a new call. A hunt list member can be a route group, line group, or a combination. A member of a line group represents a directory number of a line on an IP phone or a voice-mail port. A member of a route group represents a station gateway, a trunk gateway, or port/channel of a trunk gateway.

## Cisco HW Conference Bridge Device

The Cisco HW Conference Bridge Device object provides information about registered Cisco hardware conference bridge devices.



### Note

The HWConferenceActiveParticipants counter has been deleted.





**Table C-11 Cisco HW Conference Bridge Device**

<b>Counters</b>	<b>Counter Descriptions</b>
HWConferenceActive	This counter represents the number of conferences that are currently active (in use) on a HW conference bridge device.
HWConferenceCompleted	This counter represents the total number of conferences that have been allocated and released on a HW conference device. A conference starts when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.
OutOfResources	This counter represents the total number of times that an attempt was made to allocate a conference resource from a HW conference device and failed, for example, because all resources were already in use.
ResourceActive	This counter represents the number of resources that are currently in use (active) for this HW conference device.
ResourceAvailable	This counter represents the total number of resources that are not active and are still available to be used now for a HW conference device.
ResourceTotal	This counter represents the total number of resources for a HW conference bridge device. This counter equals the sum of the counters ResourceAvailable and ResourceActive.

## Cisco IP Manager Assistant Service

The Cisco IP Manager Assistant (IPMA) Service object provides information about the Cisco IP Manager Assistant application.

**Table C-12 Cisco IP Manager Assistant Service**

Counters	Counter Descriptions
<p>AssistantsActive</p>  <p><b>Note</b> This counter was formerly called Assistants active.</p>	<p>This counter represents the number of assistant consoles that are currently active. An active assistant console exists when an assistant is logged in from his or her assistant console desktop application.</p>
<p>LinesOpen</p>  <p><b>Note</b> This counter was formerly called Num. of lines open.</p>	<p>This counter represents the number of phone lines that the Cisco IPMA application opened. An open phone line exists when the IPMA application assumes line control from CTI.</p>
<p>ManagersActive</p>  <p><b>Note</b> This counter was formerly called Managers active.</p>	<p>This counter represents the current number of managers that the Cisco IPMA is servicing.</p>
<p>SessionsCurrent</p>  <p><b>Note</b> This counter was formerly called Current session.</p>	<p>This counter represents the total number of managers assistants that are currently using the Cisco IPMA application. Each manager and each assistant constitutes an active session, so for one manager/assistant pair, this counter would reflect two sessions.</p>

## Cisco Lines

The Cisco Lines object represents the number of Cisco lines (directory numbers) that can dial and connect to a device. Lines represent all directory numbers that terminate on an endpoint. The directory number that is assigned to it identifies the line. The Cisco Lines object does not include directory numbers that include wildcards such as a pattern for a Digital or Analog Access gateway.

**Table C-13 Cisco Lines**

Counters	Counter Descriptions
Active	This counter represents the state of the line, either active or not active. A zero indicates the line is not in use. When the number is greater than zero, this indicates that the line is active, and the number represents the number of calls that are currently in progress on that line. If more than one call is active, this indicates the call is on hold either because of being placed on hold specifically (user hold) or because of a network hold operation (for example, a transfer is in progress, and it is on transfer hold). This applies to all directory numbers that are assigned to any device.

## Cisco Locations

The Cisco Location object provides information about locations that are defined in Cisco CallManager.

**Table C-14 Cisco Locations**

Counters	Counter Descriptions
BandwidthAvailable	This counter represents the current bandwidth in a given location. A value of 0 indicates that no bandwidth is available.
BandwidthMaximum	This counter represents the maximum bandwidth that is available in a given location. A value of 0 indicates that infinite bandwidth is available.

**Table C-14 Cisco Locations (continued)**

Counters	Counter Descriptions
CallsInProgress	This counter represents the number of calls currently in progress on a particular Cisco CallManager.
OutOfResources	This counter represents the total number of times that a call on a particular Cisco CallManager through the location failed due to lack of bandwidth.
VideoBandwidthAvailable	This counter represents the bandwidth that is currently available for video in the location where the person who initiated the video conference resides. A value of 0 indicates that no bandwidth is available.
VideoBandwidthMaximum	This counter represents the maximum bandwidth that is available for video in the location where the person who initiated the video conference resides. A value of 0 indicates that no bandwidth is allocated for video.
VideoOutOfResources	This counter represents the total number of failed video-stream requests (most likely due to lack of bandwidth) in the location where the person who initiated the video conference resides.

## Cisco Media Streaming Application

The Cisco Media Streaming Application object provides information about the registered MTPs, MOH servers, conference bridge servers, and annunciators.



### Note

There will be one object for each Cisco CallManager in the Cisco CallManager group associated with the device pool that the annunciator device is configured to use.

**Table C-15 Cisco Media Streaming Application**

<b>Counter</b>	<b>Counter Descriptions</b>
ANNConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Cisco CallManager connection was lost.
ANNConnectionState	For each Cisco CallManager associated with an annunciator, this counter represents the current registration state to Cisco CallManager; 0 indicates no registration to Cisco CallManager; 1 indicates registration to the primary Cisco CallManager; 2 indicates connection to the secondary Cisco CallManager (connected to Cisco CallManager but not registered until the primary Cisco CallManager connection fails).
ANNConnectionsTotal	This counter represents the total number of annunciator instances that have been started since the Cisco IP Voice Media Streaming Application service started.
ANNInstancesActive	This counter represents the number of actively playing (currently in use) announcements .

**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
ANNStreamsActive	This counter represents the total number of currently active simplex (one direction) streams for all connections. Each stream direction counts as one stream. There is one internal stream providing the audio input and another output stream to the endpoint device.
ANNStreamsAvailable	This counter represents the remaining number of streams allocated for the annunciator device that are available for use. This counter starts as 2 multiplied by the number of configured connections (defined in the Cisco IP Voice Media Streaming App service parameter for the Annunciator, Call Count) and is reduced by one for each active stream started.
ANNStreamsTotal	This counter represents the total number of simplex (one direction) streams that have been connected to the annunciator device since the Cisco IP Voice Media Streaming Application service started.
CFBConferencesActive	This counter represents the number of active (currently in use) conferences.
CFBConferencesTotal	This counter represents the total number of conferences that have been started since the Cisco IP Voice Media Streaming Application service started.


**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
CFBConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Cisco CallManager connection was lost.
CFBConnectionState	For each Cisco CallManager associated with a SW Conference Bridge, this counter represents the current registration state to Cisco CallManager; 0 indicates no registration to Cisco CallManager; 1 indicates registration to the primary Cisco CallManager; 2 indicates connection to the secondary Cisco CallManager (connected to Cisco CallManager but not registered until the primary Cisco CallManager connection fails).
CFBStreamsActive	This counter represents the total number of currently active simplex (one direction) streams for all conferences. Each stream direction counts as one stream. In a three-party conference, the number of active streams is 6.

**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
CFBStreamsAvailable	This counter represents the remaining number of streams allocated for the conference bridge that are available for use. This counter starts as 2 multiplied by the number of configured connections (defined in the Cisco IP Voice Media Streaming App service parameter for Conference Bridge, Call Count) and is reduced by one for each active stream started.
CFBStreamsTotal	This counter represents the total number of simplex (one direction) streams that have been connected to the conference bridge since the Cisco IP Voice Media Streaming Application service started.


**Table C-15 Cisco Media Streaming Application (continued)**

Counter	Counter Descriptions
MOHAudioSourcesActive	<p data-bbox="817 289 1233 574">This counter represents the number of active (currently in use) audio sources for this MOH server. Some of these audio sources may not be actively streaming audio data if there are no devices listening. The exception is for multicast audio sources, which will always be streaming audio.</p> <div data-bbox="822 594 865 633">  </div> <p data-bbox="817 639 1233 1393"><b>Note</b> Current behavior for this counter is such that when an audio source is in use, even after the listener has disconnected, this counter will always have one input stream for each configured MOH codec. For unicast streams, the stream may be in a suspended state where no audio data is received until a device connects to listen to the stream. Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if you have configured the default audio source for multicast, G.711 mu-law and wideband codecs, then two streams are used (default audio source + G.711 mu-law and default audio source + wideband).</p>

**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
MOHConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Cisco CallManager connection was lost.
MOHConnectionState	For each Cisco CallManager associated with an MOH, this counter represents the current registration state to Cisco CallManager; 0 indicates no registration to Cisco CallManager; 1 indicates registration to the primary Cisco CallManager; 2 indicates connection to the secondary Cisco CallManager (connected to Cisco CallManager but not registered until the primary Cisco CallManager connection fails).

**Table C-15 Cisco Media Streaming Application (continued)**

Counter	Counter Descriptions
MOHStreamsActive	<p data-bbox="817 293 1227 570">This counter represents the total number of active (currently in use) simplex (one direction) streams for all connections. There is one output stream for each device listening to a unicast audio source and one input stream for each active audio source, multiplied by the number of MOH codecs.</p> <div data-bbox="821 594 865 634">  </div> <p data-bbox="817 639 1231 1365"><b>Note</b> Current behavior for this counter is such that when an audio source has been used once, it will always have one input stream for each configured MOH codec. For unicast streams, the stream may be in a suspended state where no audio data is received until a device connects to listen to the stream. Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if you have configured the default audio source for multicast, G.711 mu-law and wideband codecs, then two streams are used (default audio source + G.711 mu-law and default audio source + wideband).</p>

**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
MOHStreamsAvailable	This counter represents the remaining number of streams allocated for the MOH device that are available for use. This counter starts as 408 plus the number of configured half-duplex unicast connections, and is reduced by 1 for each active stream started. The counter is reduced by 2 for each multicast audio source, multiplied by the number of MOH codecs configured. The counter is reduced by 1 for each unicast audio source, multiplied by the number of MOH codecs configured.
MOHStreamsTotal	This counter represents the total number of simplex (one direction) streams that have connected to the MOH server since the Cisco IP Voice Media Streaming Application service started.
MTPConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Streaming Application that a Cisco CallManager connection was lost.

**Table C-15 Cisco Media Streaming Application (continued)**

<b>Counter</b>	<b>Counter Descriptions</b>
MTPConnectionState	For each Cisco CallManager associated with an MTP, this counter represents the current registration state to Cisco CallManager; 0 indicates no registration to Cisco CallManager; 1 indicates registration to the primary Cisco CallManager; 2 indicates connection to the secondary Cisco CallManager (connected to Cisco CallManager but not registered until the primary Cisco CallManager connection fails).
MTPConnectionsTotal	This counter represents the total number of MTP instances that have been started since the Cisco IP Voice Media Streaming Application service started.
MTPInstancesActive	This counter represents the number of active (currently in use) instances of MTP.
MTPStreamsActive	This counter represents the total number of currently active simplex (one direction) streams for all connections. Each stream direction counts as one stream.

**Table C-15 Cisco Media Streaming Application (continued)**

Counter	Counter Descriptions
MTPStreamsAvailable	This counter represents the remaining number of streams allocated for the MTP device that are available for use. This counter starts as 2 multiplied by the number of configured connections (defined in the Cisco IP Voice Media Streaming App service parameter for MTP, Call Count) and is reduced by one for each active stream started.
MTPStreamsTotal	This counter represents the total number of simplex (one direction) streams that have been connected to the MTP device since the Cisco IP Voice Media Streaming Application service started.

## Cisco Messaging Interface

The Cisco Messaging Interface object provides information about the Cisco Messaging Interface (CMI) service.

**Table C-16 Cisco Messaging Interface**

<b>Counters</b>	<b>Counter Descriptions</b>
HeartBeat	This counter represents the heartbeat of the CMI service. This incremental count indicates that the CMI service is up and running. If the count does not increase (increment), it means that the CMI service is down.
SMDIMessageCountInbound	This counter represents the running count of inbound SMDI messages since the last restart of the CMI service.
SMDIMessageCountInbound24Hour	This counter represents the rolling count of inbound SMDI messages in the last 24 hours.
SMDIMessageCountOutbound	This counter represents the running count of outbound SMDI messages since the last restart of the CMI service.
SMDIMessageCountOutbound24Hour	This counter represents the rolling count of outbound SMDI messages in the last 24 hours.
StartTime	This counter represents the time in milliseconds when the CMI service started. The real-time clock in the computer, which simply acts as a reference point that indicates the current time and the length of time that has elapsed, in milliseconds, since the service started provides the basis for this time. The reference point specifies midnight, January 1, 1970.

# Cisco MGCP BRI Device

The Cisco Media Gateway Control Protocol (MGCP) Basic Rate Interface (BRI) Device object provides information about registered Cisco MGCP BRI devices.

**Table C-17 Cisco MGCP BRI Device**

Counters	Counter Descriptions
Channel 1 Status	This counter represents the status of the indicated B-Channel associated with the MGCP BRI Device. Possible values: 0 (Unknown) indicates the status of the channel could not be determined; 1 (Out of service) indicates that this channel is not available for use; 2 (Idle) indicates that this channel has no active call and is ready for use; 3 (Busy) indicates an active call on this channel; 4 (Reserved) indicates that this channel has been reserved for use as a D-channel or for use as a Synch-Channel for BRI.
Channel 2 Status	This counter represents the status of the indicated B-Channel associated with the MGCP BRI Device. Possible values: 0 (Unknown) indicates the status of the channel could not be determined; 1 (Out of service) indicates that this channel is not available for use; 2 (Idle) indicates that this channel has no active call and is ready for use; 3 (Busy) indicates an active call on this channel; 4 (Reserved) indicates that this channel has been reserved for use as a D-channel or for use as a Synch-Channel for BRI.
CallsCompleted	This counter represents the total number of successful calls made from this MGCP BRI device.

**Table C-17 Cisco MGCP BRI Device (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
OutboundBusyAttempts	This counter represents the total number of times a call through this MGCP BRI device was attempted when there were no voice channels available.
DatalinkInService	This counter represents the state of the Data Link (D-Channel) on the corresponding Digital Access. It will be set to 1 (one) if the Data Link is up (in service), or 0 (zero) if the Data Link is down (out of service).

## Cisco MGCP FXO Device

The Cisco Media Gateway Control Protocol (MGCP) Foreign Exchange Office (FXO) Device object provides information about registered Cisco MGCP FXO devices.

**Table C-18 Cisco MGCP FXO Device**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsCompleted	This counter represents the total number of successful calls that were made from the port on an MGCP FXO device.
OutboundBusyAttempts	This counter represents the total number of times that a call through the port on this MGCP FXO device was attempted when no voice channels were available.
PortStatus	This counter represents the status of the FXO port associated with this MGCP FXO device.

## Cisco MGCP FXS Device

The Cisco MGCP Foreign Exchange Station (FXS) Device object provides information about registered Cisco MGCP FXS devices. One instance of this object gets created for each port on a Cisco Catalyst 6000 24 port FXS Analog Interface Module gateway. For example, for a fully configured Catalyst 6000 Analog Interface Module would represent 24 separate instances of this object.

**Table C-19 Cisco MGCP FXS Device**

Counters	Counter Descriptions
CallsCompleted	This counter represents the total number of successful calls that were made from this port on the MGCP FXS device.
OutboundBusyAttempts	This counter represents the total number of times that a call through this port on the MGCP FXS device was attempted when no voice channels were available.
PortStatus	This counter represents the status of the FXS port that is associated with a MGCP FXS device.

## Cisco MGCP Gateways

The Cisco MGCP Gateways object provides information about registered MGCP gateways.

**Table C-20 Cisco MGCP Gateways**

<b>Counters</b>	<b>Counter Descriptions</b>
BRISpansInService	This counter represents the number of BRI spans that are currently available for use in the gateway.
BRChannelsActive	This counter represents the number of BRI voice channels that are currently active in a call in the gateway.
FXOPortsActive	This counter represents the number of FXO ports that are currently active in a call in the gateway.
FXOPortsInService	This counter represents the number of FXO ports that are currently available for use in the gateway.
FXSPortsActive	This counter represents the number of FXS ports that are currently active in a call in the gateway.
FXSPortsInService	This counter represents the number of FXS ports that are currently available for use in the gateway.
PRChannelsActive	This counter represents the number of PRI voice channels that are currently active in a call in the gateway.
PRISpansInService	This counter represents the number of PRI spans that are currently available for use in the gateway.
T1ChannelsActive	This counter represents the number of T1 CAS voice channels that are currently active in a call in the gateway.
T1SpansInService	This counter represents the number of T1 CAS spans that are currently available for use in the gateway.

# Cisco MGCP PRI Device

The Cisco MGCP Primary Rate Interface (PRI) Device object provides information about registered Cisco MGCP PRI devices.

**Table C-21 Cisco MGCP PRI Device**

Counters	Counter Descriptions
CallsCompleted	This counter represents the total number of successful calls that were made from this MGCP PRI device.
Channel 1 Status through Channel 15 Status (consecutively numbered)	This counter represents the status of the indicated B-Channel that is associated with a MGCP PRI device. Possible values: 0 (Unknown) indicates that the status of the channel could not be determined; 1 (Out of service) indicates that this channel is not available for use; 2 (Idle) indicates that this channel has no active call and is ready for use; 3 (Busy) indicates that an active call exists on this channel; 4 (Reserved) indicates that this channel has been reserved for use as a D-Channel or for use as a Synch-Channel for E-1.
Channel 16 Status	This counter represents the status of the indicated B-Channel that is associated with a MGCP PRI Device. Possible values: 0-Unknown, 1-Out of service, 2-Idle, 3-Busy, 4-Reserved, for an E1 PRI Interface, this channel is reserved for use as a D-Channel.
Channel 17 Status through Channel 31 Status (consecutively numbered)	This counter represents the status of the indicated B-Channel that is associated with the MGCP PRI Device. 0-Unknown, 1-Out of service, 2-Idle, 3-Busy, 4-Reserved.

**Table C-21 Cisco MGCP PRI Device (continued)**

<b>Counters</b>	<b>Counter Descriptions</b>
DatalinkInService	This counter represents the state of the Data Link (D-Channel) on the corresponding digital access gateway. This value will be set to 1 (one) if the Data Link is up (in service) or 0 (zero) if the Data Link is down (out of service).
OutboundBusyAttempts	This counter represents the total number of times a call through an MGCP PRI device was attempted when there were no voice channels available.

## Cisco MGCP T1 CAS Device

The Cisco MGCP T1 Channel Associated Signaling (CAS) Device object provides information about registered Cisco MGCP T1 CAS devices.

**Table C-22 Cisco MGCP T1 CAS Device**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsCompleted	This counter represents the total number of successful calls that were made from this MGCP T1 CAS device.
Channel 1 Status through Channel 24 Status (consecutively numbered)	This counter represents the status of the indicated B-Channel that is associated with an MGCP T1 CAS device. Possible values: 0 (Unknown) indicates the status of the channel could not be determined; 1 (Out of service) indicates that this channel is not available for use; 2 (Idle) indicates that this channel has no active call and is ready for use; 3 (Busy) indicates that an active call exists on this channel; 4 (Reserved) indicates that this channel has been reserved for use as a D-Channel or for use as a Synch-Channel for E-1.
OutboundBusyAttempts	This counter represents the total number of times that a call through the MGCP T1 CAS device was attempted when no voice channels were available.

## Cisco MOH Device

The Cisco Music On Hold (MOH) Device object provides information about registered Cisco MOH devices.

Table C-23 Cisco MOH Device



Counters	Counter Descriptions
MOHMulticastResourceActive	<p>This counter represents the number of currently active multicast connections to multicast addresses that are served by an MOH server.</p> <hr/> <p> <b>Note</b> Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if you have configured the default audio source for multicast, G.711 mu-law and wideband codecs, two streams are used (default audio source + G.711 mu-law and default audio source + wideband).</p>
MOHMulticastResourceAvailable	<p>This counter represents the number of multicast MOH connections to multicast addresses that are served by an MOH server that are not active and are still available to be used now for the MOH server.</p> <hr/> <p> <b>Note</b> Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if you have configured the default audio source for multicast, G.711 mu-law and wideband codecs, two streams are used (default audio source + G.711 mu-law and default audio source + wideband).</p>

Table C-23 Cisco MOH Device (continued)





Counters	Counter Descriptions
MOHTotalMulticastResources	<p>This counter represents the total number of multicast MOH connections that are allowed to multicast addresses that are served by an MOH server.</p> <p> <b>Note</b> Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if you have configured the default audio source for multicast, G.711 mu-law and wideband codecs, two streams are used (default audio source + G.711 mu-law and default audio source + wideband).</p>
MOHTotalUnicastResources	<p>This counter represents the total number of unicast MOH connections that are allowed by an MOH server.</p> <p> <b>Note</b> Each MOH unicast resource uses one stream.</p>
MOHUnicastResourceActive	<p>This counter represents the number of active unicast MOH connections to an MOH server.</p> <p> <b>Note</b> Each MOH unicast resource uses one stream.</p>



Table C-23 Cisco MOH Device (continued)

Counters	Counter Descriptions
MOHUnicastResourceAvailable	<p>This counter represents the number of unicast MOH connections that are not active and are still available to be used now for an MOH server.</p> <p> <b>Note</b> Each MOH unicast resource uses one stream.</p>
MOHHighestActiveResources	<p>This counter represents the largest number of simultaneously active MOH connections for an MOH server. This includes both multicast and unicast connections.</p>
MOHOutOfResources	<p>This counter represents the total number of times that the Media Resource Manager attempted to allocate an MOH resource when all available resources on all MOH servers that are registered with a Cisco CallManager were already active.</p>

## Cisco MTP Device

The Cisco Media Termination Point (MTP) Device object provides information about registered Cisco MTP devices.

Table C-24 Cisco MTP Device

Counters	Counter Descriptions
OutOfResources	This counter represents the total number of times that an attempt was made to allocate an MTP resource from an MTP device and failed; for example, because all resources were already in use.
ResourceActive	<p>This counter represents the number of MTP resources that are currently in use (active) for an MTP device.</p> <p> <b>Note</b> Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.</p>
ResourceAvailable	<p>This counter represents the total number of MTP resources that are not active and are still available to be used now for an MTP device.</p> <p> <b>Note</b> Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.</p>
ResourceTotal	This counter represents the total number of MTP resources that an MTP device provides. This counter equals the sum of the counters ResourceAvailable and ResourceActive.

## Cisco Phones

The Cisco Phones object provides information about the number of registered Cisco IP Phones, including both hardware-based and other station devices.

*Table C-25 Cisco Phones*

<b>Counters</b>	<b>Counter Descriptions</b>
CallsAttempted	This counter represents the number of calls that have been attempted from this phone. This number increases each time that the phone goes off hook and on hook.

## Cisco QSIG Features

The Cisco QSIG features object provides information regarding the operation of various Q.SIG features, such as call diversion and path replacement.

**Table C-26 Cisco Phones**

Counters	Counter Descriptions
PathReplacementCompleted	This counter represents the number of successful path replacements that have occurred. Path replacement is used in a QSIG network to optimize the path between two edge PINX (PBXs) involved in a call. This counter resets when the Cisco CallManager service parameter Path Replacement Enabled is enabled or disabled, or when the Cisco CallManager service restarts.
CallDiversionByRereouteCompleted	This counter represents the number of successful call diversion by reroutes that have occurred. Call diversion by reroute enables the path for a forwarded call to be as optimal (minimize the number of B-Channels in use) as possible from the originator's perspective. This counter resets when the Cisco CallManager service parameter Call Diversion by Reroute Enabled is enabled or disabled, or when the Cisco CallManager service restarts.

## Cisco SIP

The Cisco Session Initiation Protocol (SIP) object provides information about configured SIP devices.

**Table C-27 Cisco SIP**

<b>Counters</b>	<b>Counter Descriptions</b>
CallsActive	This counter represents the number of calls that are currently active (in use) on this SIP device.
CallsAttempted	This counter represents the number of calls that have been attempted on this SIP device, including both successful and unsuccessful call attempts.
CallsCompleted	This counter represents the number of calls that were actually connected (a voice path was established) from a SIP device. This number increases when the call terminates.
CallsInProgress	This counter represents the number of calls that are currently in progress on a SIP device, including all active calls. When all calls that are in progress are connected, the number of CallsInProgress equals the number of CallsActive.

## Cisco SW Conf Bridge Device

The Cisco SW Conference Bridge Device object provides information about registered Cisco software conference bridge devices.

**Table C-28 Cisco SW Conf Bridge Device**

<b>Counters</b>	<b>Counter Descriptions</b>
OutOfResources	This counter represents the total number of times that an attempt was made to allocate a conference resource from a SW conference device and failed; for example, because all resources were already in use.
ResourceActive	This counter represents the number of resources that are currently in use (active) for a SW conference device.
ResourceAvailable	This counter represents the total number of resources that are not active and are still available to be used now for a SW conference device.
ResourceTotal	This counter represents the total number of conference resources that a SW conference device provides. This counter equals the sum of the ResourceAvailable and ResourceActive counters.
SWConferenceActive	This counter represents the number of software-based conferences that are currently active (in use) on a SW conference device.
SWConferenceCompleted	This counter represents the total number of conferences that have been allocated and released on a SW conference device. A conference starts when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.

# Cisco TcdSrv

The Cisco TcdSrv (Telephony Call Dispatcher service) object provides information about the Cisco CallManager Attendant Console.

**Table C-29 Cisco TcdSrv**


Counters	Counter Descriptions
CallsActive	 <p><b>Note</b> Do not use this counter. Information in this counter may not accurately reflect the total number of active calls.</p>
CallsRedirected	This counter represents the total number of redirected calls for a TCD service. This number increases every time that a pilot point receives a call and redirects the call to a member of its hunt group.
CallsTotal	This counter represents the total number of all calls that have been made since the TCD service started.
CcmLineLinkState	This counter represents the line state. Values include 0, 1, 10, or 11. A value of 0 indicates that the TCD service has not registered or has not received line link state information from Cisco CallManager; 1 indicates that the TCD service has registered and is receiving line link state information from Cisco CallManager; 10 indicates that the TCD service has logged into CTI but has not registered or has not received line link state information from Cisco CallManager; 11 indicates that the TCD service has logged into CTI and has registered and is receiving line link state information.

Table C-29 Cisco TcdSrv (continued)




Counters	Counter Descriptions
ClientsRegistered	This counter represents the total number of registered clients for a TCD service. This number increases by one for each new registration of a Cisco CallManager attendant console client when the client application logs in.
ClientsOnline	This counter represents the total number of Cisco CallManager attendant console clients that are currently online. Attendant Console clients include all users configured in the attendant console User Configuration screen in Cisco CallManager Administration that are currently online. This number increases by one for each client that goes online and decreases by one for each client that goes offline.
ClientsTotal	This counter represents the total number of Cisco CallManager Attendant Console clients that are currently registered with the TCD service. Attendant console clients represent all users that are configured in the Attendant Console User Configuration screen in Cisco CallManager Administration.
HeartBeat	This counter represents the heartbeat of the TCD service. This incremental count indicates that TCD service is up and running. If the count does not increase, this means that the service is down.
LinesActive	 <p><b>Note</b> Do not use this counter. Information in this counter may not accurately reflect the total number of active lines.</p>

Table C-29 Cisco TcdSrv (continued)

Counters	Counter Descriptions
LinesIdle	 <p><b>Note</b> Do not use this counter. Information in this counter may not accurately reflect the total number of idle lines.</p>
LinesTotal	 <p><b>Note</b> Do not use this counter. Information in this counter may not accurately reflect the total number of lines.</p>
PilotPointsTotal	This counter represents the total number of pilot points that are configured in Cisco CallManager.
StartTime	This counter represents the time in milliseconds since the TCD service started. The real-time clock in the computer, which is simply a reference point that indicates the current time and the time that has elapsed, in milliseconds, since the service started provides the basis for this time. The reference point is midnight, January 1, 1970.
Version	This counter represents the version of the TCD service.

## Cisco TFTP Server

The Cisco Trivial File Transfer Protocol (TFTP) Server object provides information about the Cisco TFTP server.

**Table C-30 Cisco TFTP Server**

<b>Counters</b>	<b>Counter Descriptions</b>
BuildCount	This counter represents the number of times since the TFTP service started that the TFTP server has built all the configuration files in response to a database change notification that affects all devices. This counter increases by one every time the TFTP server performs a new build of all the configuration files.
BuildDeviceCount	This counter represents the number of devices that were processed in the last build of all the configuration files. This counter also updates while processing device change notifications. The counter increases when a new device is added and decreases when an existing device is deleted.
BuildDuration	This counter represents the time in seconds that it took to build the last of all the configuration files.
BuildSignCount	This counter represents the number of security-enabled phone devices for which the configuration file was digitally signed with the Cisco CallManager server key in the last build of all the configuration files. This counter also updates while processing security-enabled phone device change notifications.
BuildUnitCount	This counter represents the number of gateways that were processed in the last build of all the configuration files. This counter also updates while processing unit change notifications. The counter increases when a new gateway is added and decreases when an existing gateway is deleted.

Table C-30 Cisco TFTP Server (continued)






Counters	Counter Descriptions
ChangeNotifications	This counter represents the total number of all the Cisco CallManager database change notifications that the TFTP server received. Each time that a device configuration is updated in Cisco CallManager Administration, the TFTP server gets sent a database change notification to rebuild the XML file for the updated device.
DeviceChangeNotifications	This counter represents the number of times that the TFTP server received database change notification to create, update, or delete configuration files for devices.
HeartBeat	This counter represents the heartbeat of the TFTP server. This incremental count indicates that the TFTP server is up and running. If the count does not increase, this means that the TFTP server is down.
Requests	This counter represents the total number of file requests (such as requests for XML configuration files, phone firmware files, audio files, and so on.) that the TFTP server handles. This counter represents the sum total of the following counters since the TFTP service started: RequestsProcessed, RequestsNotFound, RequestsOverflow, RequestsAborted, and RequestsInProgress.
 <b>Note</b> This counter was formerly called TFTPRequests.	
RequestsAborted	This counter represents the total number of TFTP requests that the TFTP server canceled (aborted) unexpectedly. Requests could be aborted if the requesting device cannot be reached (for instance, the device lost power) or if the file transfer was interrupted due to network connectivity problems.
 <b>Note</b> This counter was formerly called TFTPRequestsAborted.	

Table C-30 Cisco TFTP Server (continued)

Counters	Counter Descriptions
RequestsInProgress	This counter represents the number of file requests that the TFTP server currently is processing. This counter increases for each new file request and decreases for each file request that is completed. This counter indicates the current load of the TFTP server.
 <b>Note</b> This counter was formerly called TFTPRequestsNotFound.	This counter represents the total number of TFTP requests where the requested file was not found. When the TFTP server does not find the requested file, an error message gets sent to the requesting device.
 <b>Note</b> This counter was formerly called TFTPRequestsOverflow.	This counter represents the total number of TFTP requests that were rejected because the maximum number of allowable client connections was exceeded, because requests arrived while the TFTP server was building the configuration files, or because of some other resource limitation. The Cisco TFTP advanced service parameter, Maximum Serving Count, sets the maximum number of allowable connections.
 <b>Note</b> This counter was formerly called TFTPRequestsProcessed.	This counter represents the total number of TFTP requests that the TFTP server successfully processed.



**Table C-30 Cisco TFTP Server (continued)**

Counters	Counter Descriptions
SegmentsAcknowledged	This counter represents the total number of data segments that the client devices acknowledged. Files get sent to the requesting device in data segments of 512 bytes, and for each 512 byte segment, the device sends the TFTP server an acknowledgment message. Each additional data segment gets sent upon receipt of the acknowledgment for the previous data segment until the complete file is successfully transmitted to the requesting device.
SegmentSent	This counter represents the total number of data segments that the TFTP server sent. Files get sent to the requesting device in data segments of 512 bytes.
UnitChangeNotifications	This counter represents the number of times that the TFTP server received database change notification to create, update, or delete gateway-related configuration files.

## Cisco Transcode Device

The Cisco Transcode Device object provides information about registered Cisco transcoding devices.

**Table C-31 Cisco Transcode Device**

Counters	Counter Descriptions
OutOfResources	This counter represents the total number of times that an attempt was made to allocate a transcoder resource from a transcoder device and failed; for example, because all resources were already in use.
ResourceActive	<p>This counter represents the number of transcoder resources that are currently in use (active) for a transcoder device.</p> <p> <b>Note</b> Each transcoder resource uses two streams.</p>
ResourceAvailable	<p>This counter represents the total number of resources that are not active and are still available to be used now for a transcoder device.</p> <p> <b>Note</b> Each transcoder resource uses two streams.</p>
ResourceTotal	This counter represents the total number of transcoder resources that a transcoder device provided. This counter equals the sum of the counters ResourceActive and ResourceAvailable.

## Cisco Video Conference Bridge

The Cisco Video Conference Bridge object provides information about registered Cisco video conference bridge devices.

**Table C-32 Cisco Video Conference Bridge**

<b>Counters</b>	<b>Counter Descriptions</b>
ConferenceActive	This counter represents the total number of video conferences that are currently active (in use) on a video conference bridge device. The system specifies a conference as active when the first call connects to the bridge.
ConferenceAvailable	This counter represents the number of video conferences that are not active and are still available on a video conference device.
ConferenceCompleted	This counter represents the total number of video conferences that have been allocated and released on a video conference device. A conference starts when the first call connects to the bridge. The conference completes when the last call disconnects from the bridge.
ConferenceTotal	This counter represents the total number of video conferences that are configured for a video conference device.
OutOfConferences	This counter represents the total number of times an attempt was made to initiate a video conference from a video conference device and failed because the device already had the maximum number of active conferences allowed (as specified by the TotalConferences counter).
OutOfResources	This counter represents the total number of times that an attempt was made to allocate a conference resource from a video conference device and failed, for example, because all resources were already in use.

**Table C-32 Cisco Video Conference Bridge (continued)**

Counters	Counter Descriptions
ResourceActive	This counter represents the total number of resources that are currently active (in use) on a video conference bridge device. One resource gets used per participant.
ResourceAvailable	This counter represents the total number of resources that are not active and are still available on a device to handle additional participants for a video conference bridge device.
ResourceTotal	This counter represents the total number of resources that are configured on a video conference bridge device. One resource gets used per participant.

## Cisco WebDialer

The Cisco WebDialer object provides information about the Cisco WebDialer application and the Redirector servlet.

**Table C-33 Cisco WebDialer**

Counters	Counter Descriptions
CallsCompleted	This counter represents the number of Make Call and End Call requests that the Cisco WebDialer application successfully completed.
CallsFailed	This counter represents the number of Make Call and End Call requests that were unsuccessful.
RedirectorSessionsHandled	This counter represents the total number of HTTP sessions that the Redirector servlet handled since the last service startup.

**Table C-33 Cisco WebDialer (continued)**

Counters	Counter Descriptions
RedirectorSessionsInProgress	This counter represents the number of HTTP sessions that are currently being serviced by the Redirector servlet.
SessionsHandled	This counter represents the total number of CTI sessions that the Cisco WebDialer servlet handled since the last service startup.
SessionsInProgress	This counter represents the number of CTI sessions that are currently being serviced by the Cisco WebDialer servlet.

## Where to Find More Information

### Related Topics

- [Chapter 1, “Introduction”](#)
- [Chapter 2, “Performance Objects and Counters”](#)
- [Chapter 9, “Real-Time Monitoring Tool”](#)
- [Chapter 12, “Microsoft Performance”](#)
- [Chapter 12, “Real-Time Monitoring Configuration,”](#) *Cisco CallManager Serviceability Administration Guide*
- [Chapter 23, “Microsoft Performance,”](#) *Cisco CallManager Serviceability Administration Guide*

Where to Find More Information