



## Performance Counters and Alerts

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## System Counters

### Cisco Tomcat Connector

The Tomcat Hypertext Transport Protocol (HTTP) and HTTP Secure (HTTPS) Connector object provides information about Tomcat connectors.

A Tomcat HTTP connector represents an endpoint that receives requests and sends responses. The connector handles HTTP/HTTPS requests and sends HTTP/HTTPS responses that occur when application web pages are accessed. The Secure Socket Layer (SSL) status of web application URLs provides the basis for the instance name for each Tomcat HTTP Connector. For example, `https://<IP Address>:8443` for SSL or `http://<IP Address>:8080` for non-SSL.

The following table contains information about the Tomcat HTTP connector counters.

**Table 1: Cisco Tomcat Connector**

Counters	Counter Description
Errors	The total number of HTTP errors (for example, 401 Unauthorized) that the connector encountered.
MBytesReceived	The amount of data that the connector received.
MBytesSent	The amount of data that the connector sent.

Counters	Counter Description
Requests	The total number of request that the connector handled.
ThreadsTotal	The current total number of request processing threads, including available and in-use threads, for the connector.
ThreadsMax	<p>The maximum number of request processing threads for the connector.</p> <p>Each incoming request on a web application window requires a thread for the duration of that request. If more simultaneous requests are received than the currently available request processing threads can handle, additional threads are created up to the configured maximum shown in this counter. If still more simultaneous requests are received, they accumulate within the server socket that the connector created, up to an internally specified maximum number. Any further simultaneous requests receive connection refused messages until resources are available to process them.</p>
ThreadsBusy	This counter represents the current number of busy/in-use request processing threads for the connector.

## Cisco Tomcat JVM

The Cisco Tomcat Java Virtual Machine (JVM) object provides information about the pool of common resource memory used by web applications such as Cisco Unified Communications Manager Administration, Cisco Unified Serviceability, and Cisco Unity Connection Administration. The dynamic memory block stores all objects that Tomcat and its web applications create.

The following table contains information about the Tomcat JVM counters.

**Table 2: Tomcat JVM**

Counters	Counter Description
KBytesMemoryFree	<p>The amount of free dynamic memory block (heap memory) in the Tomcat Java Virtual Machine.</p> <p>When the amount of free dynamic memory is low, more memory is automatically allocated, and total memory size (represented by the KbytesMemoryTotal counter) increases but only up to the maximum (represented by the KbytesMemoryMax counter).</p> <p>You can determine the amount of memory in use by subtracting KBytesMemoryFree from KbytesMemoryTotal.</p>
KBytesMemoryMax	The amount of free dynamic memory block (heap memory) in the Tomcat Java Virtual Machine.
KBytesMemoryTotal	The current total dynamic memory block size, including free and in-use memory, of Tomcat Java Virtual Machine.

## Cisco Tomcat Web Application

The Cisco Tomcat Web Application object provides information about how to run web applications.

The URLs for the web application provide the basis for the instance name for each Tomcat Web Application, as explained in the following examples:

- Cisco Unified Communications Manager Administration (`https://<IP Address>:8443/ccmadmin`) is identified by `ccmadmin`.
- Cisco Unified Serviceability (`https://<IP Address>:8443/ccmservice`) is identified by `ccmservice`.
- Cisco Unified Communications Manager User Options (`https://<IP Address>:8443/ccmuser`) is identified by `ccmuser`.
- Cisco Unity Connection Administration (`https://<IP Address>:8443/cuadmin`) is identified by `cuadmin`.
- URLs that do not have an extension, such as `https://<IP Address>:8443` or `http://<IP Address>:8080`, are identified by `_root`.

The following table contains information on the Tomcat Web Application counters.

**Table 3: Tomcat Web Application**

Counters	Counter Description
Errors	The total number of HTTP errors (for example, 401 Unauthorized) that a Unified Communications Manager-related or Cisco Unity Connection-related web application encounters.
Requests	The total number of requests that the web application handles. Each time that a web application is accessed, its Requests counter increments accordingly.
SessionsActive	The number of active or in use sessions in the web application.

## Database Change Notification Client

The Database Change Notification Client object provides information about change notification clients. The following table contains information about the Database Change Notification Client counters.

**Table 4: Database Change Notification Client**

Counters	Counter Descriptions
MessagesProcessed	The number of database change notifications that have been processed. This counter refreshes every 15 seconds.
MessagesProcessing	The number of change notification messages that are currently being processed or are waiting to be processed in the change notification queue for this client. This counter refreshes every 15 seconds.
QueueHeadPointer	The head pointer to the change notification queue. The head pointer acts as the starting point in the change notification queue. To determine the number of notifications in the queue, subtract the head pointer value from the tail pointer value. By default, this counter refreshes every 15 seconds.
QueueMax	The largest number of change notification messages that will be processed for this client. This counter remains cumulative since the last restart of the Cisco Database Layer Monitor service.

Counters	Counter Descriptions
QueueTailPointer	The tail pointer to the change notification queue. The tail pointer represents the ending point in the change notification queue. To determine the number of notifications in the queue, subtract the head pointer value from the tail pointer value. By default, this counter refreshes every 15 seconds
TablesSubscribed	The number of tables in which this client has subscribed.

## Database Change Notification Server

The Database Change Notification Server object provides information about different change-notification-related statistics. The following table contains information about the Database Change Notification Server counters.

**Table 5: Database Change Notification Server**

Counter	Counter Descriptions
Clients	The number of change notification clients (services and servlets) that have subscribed for change notification.
CNProcessed	The total number of change notification messages processed by the server since reboot.
Queue Delay	<p>The number of seconds that the change notification process has messages to process but is not processing them. This condition is true if:</p> <ul style="list-style-type: none"> <li>• either Change Notification Requests Queued in Database (QueuedRequestsInDB) and Change Notification Requests Queued in Memory (QueuedRequestsInMemory) are non-zero, or</li> <li>• the Latest Change Notification Messages Processed count is not changing.</li> </ul> <p>This condition is checked every 15 seconds.</p>
QueuedRequestsInDB	The number of change notification records that are in the DBCNQueue (Database Change Notification Queue) table through direct TCP/IP connection (not queued in shared memory). This counter refreshes every 15 seconds.
QueuedRequestsInMemory	The number of change notification requests that are queued in shared memory.

## Database Change Notification Subscription

The Database Change Notification Subscription object displays the names of tables where the client receives Change Notifications.

The SubscribedTable object displays the table with the service or servlet that receives change notifications. Because the counter does not increment, this display occurs for informational purposes only.

## Database Local DSN

The Database Local Data Source Name (DSN) object and LocalDSN counter provide the DSN information for the local machine. The following table contains information on the Database local DSN.

**Table 6: Database Local Data Source Name**

Counters	Counter Descriptions
CcmDbSpace_Used	The amount of Ccm DbSpace that is consumed
CcmtempDbSpace_Used	The amount of Ccmtemp DbSpace that is consumed.
CNDbSpace_Used	The percentage of CN DbSpace that is consumed.
LocalDSN	The DSN that is being referenced from the local machine.
SharedMemory_Free	The total shared memory that is free.
SharedMemory_Used	The total shared memory that is used.
RootDbSpace_Used	The amount of RootDbSpace that is consumed.

## DB User Host Information Counters

The DB User Host Information object provides information about DB User Host.

The DB:User:Host Instance object displays the number of connections that are present for each instance of DB:User:Host.

## Enterprise Replication DBSpace Monitors

The enterprise replication DBSpace monitors object displays the usage of various ER DbSpaces. The following table contains information about the enterprise replication DB monitors.

**Table 7: Enterprise Replication DBSpace Monitors**

Counters	Counter Descriptions
ERDbSpace_Used	The amount of enterprise replication DbSpace that was consumed.
ERSBDbSpace_Used	The amount of ERDbSpace that was consumed.

## Enterprise Replication Perfmon Counters

The Enterprise Replication Perfmon Counter object provides information about the various replication counters.

The ServerName:ReplicationQueueDepth counter displays the server name followed by the replication queue depth.

## IP

The IP object provides information on the IPv4-related statistics on your system. The following table contains information about the IP counters.

**Note** These counters are also part of the IP6 object, which supports Unified Communications Manager and provides information about the IPv6-related statistics on your system.

**Table 8: IP Counters**

Counters	Counter Descriptions
Frag Creates	The number of IP datagrams fragments that are generated at this entity.
Frag Fails	The number of IP datagrams that are discarded at this entity because the datagrams cannot be fragmented, such as datagrams where the Do not Fragment flag is set.
Frag OKs	The number of IP datagrams that are successfully fragmented at this entity.
In Delivers	The number of input datagrams that are delivered to IP user protocols. This counter includes Internet Control Message Protocol (ICMP).
In Discards	The number of input IP datagrams where no issues are encountered, but which are discarded. One possible reason is a lack of buffer space. This counter does not include any datagrams that are discarded while awaiting reassembly.
In HdrErrors	The number of input datagrams that are discarded with header errors. This counter includes bad checksums, version number mismatch, other format errors, time-to-live exceeded, and other errors that are discovered in processing their IP options.
In Receives	The number of input datagrams that are received from all network interfaces. This counter includes datagrams that were received with errors
In UnknownProtos	The number of locally addressed datagrams that are received successfully but discarded because of an unknown or unsupported protocol.

Counters	Counter Descriptions
InOut Requests	The number of incoming IP datagrams that are received and the number of outgoing IP datagrams that are sent.
Out Discards	The number of output IP datagrams that are not transmitted and are discarded. One possible reason is a lack of buffer space.
Out Requests	This counter represents the total number of IP datagrams that local IP user-protocols (including ICMP) supply to IP in requests transmission. This counter does not include any datagrams that were counted in ForwDatagrams.
Reasm Fails	<p>The number of IP reassembly failures that the IP reassembly algorithm detected, including time outs and errors.</p> <p>This counter does not represent the discarded IP fragments because some algorithms, such as the algorithm in RFC 815, can lose track of the number of fragments because these algorithms combine fragments as they are received.</p>
Reasm OKs	The number of IP datagrams that are successfully reassembled.
Reasm Reqds	The number of IP fragments that are received that require reassembly at this entity.

## Memory

The memory object provides information about the usage of physical memory and swap memory on the server. The following table contains information about memory counters.

**Table 9: Memory**

Counters	Counter Descriptions
% Mem Used	<p>Displays the system physical memory utilization as a percentage. The value of this counter is calculated as follows:</p> $\frac{\text{Total KBytes} - \text{Free KBytes} - \text{Buffers KBytes} - \text{Cached KBytes} + \text{Shared KBytes}}{\text{Total KBytes}}$ <p>This value also corresponds to the Used KBytes/Total KBytes</p>
% Page Usage	The percentage of active pages.



Counters	Counter Descriptions
% VM Used	<p>Displays the system virtual memory utilization as a percentage. The value of this counter is calculated as follows:</p> $\frac{\text{Total KBytes} - \text{Free KBytes} - \text{Buffers KBytes} - \text{Cached KBytes} + \text{Shared KBytes} + \text{Used Swap KBytes}}{\text{Total KBytes} + \text{Total Swap KBytes}}$ <p>This value also corresponds to Used VM KBytes/Total VM KBytes.</p>
Buffers KBytes	The capacity of buffers in your system in kilobytes.
Cached KBytes	The amount of cached memory in kilobytes.
Free KBytes	The total amount of memory that is available in your system in kilobytes.
Free Swap KBytes	The amount of free swap space that is available in your system in kilobytes.
HighFree	<p>The amount of free memory in the high region.</p> <p>The Linux kernel splits the virtual memory address space into memory regions. The high memory is memory above a certain physical address, and its amount depends on the total memory and the type of kernel on the system.</p> <p>For the Unified Communications Manager system with 4 GB memory, the high memory is roughly in the address of 896M to 4096M.</p>
HighTotal	<p>The total amount of memory in the high region.</p> <p>The Linux kernel splits the virtual memory address space into memory regions. The high memory is memory above a certain physical address, and its amount depends on the total memory and the type of kernel on the system.</p> <p>For the Unified Communications Manager system with 4 GB memory, the high memory is roughly in the address of 896M to 4096M.</p>
Page Faults Per Sec	The number of page faults (both major and minor) that the system makes per second (post 2.5 kernels only). This reading does not necessarily represent a count of page faults that generate input and output (I/O) because some page faults can get resolved without I/O.
Low Total	The total low (non-paged) memory for kernel.

Counters	Counter Descriptions
Low Free	The total free low (non-paged) memory for kernel.
Page Major Faults Per Sec	The number of major faults that the system makes per second that require a memory page from the disk (post 2.5 kernels only).
Pages	The number of pages that the system pages in from the disk, plus the number of pages that the system pages out to the disk.
Pages Input	The number of pages that the system pages in from the disk.
Pages Input Per Sec	The total number of kilobytes that the system pages in from the disk per second.
Pages Output	The number of pages that the system pages out to the disk.
Pages Output Per Sec	The total number of kilobytes that the system pages out to the disk per second.
Shared KBytes	The amount of shared memory in your system in kilobytes.
SlabCache	The memory used by created slabcaches by various kernel components, as a macroscopic counter representing the sum of all the individual entries in the proc's slabinfo.
SwapCached	The amount of Swap used as cache memory. Memory that once was swapped out, is swapped back in, but is still in the swapfile.
Total KBytes	The total amount of memory in your system in kilobytes.
Total Swap KBytes	The total amount of swap space in your system in kilobytes.
Total VM KBytes	The total amount of system physical and memory and swap space (Total Kbytes + Total Swap Kbytes) that is in use in your system in kilobytes.

Counters	Counter Descriptions
Used KBytes	<p>The amount of in-use physical memory. The value of the Used KBytes counter is calculated as follows:</p> $\text{Total KBytes} - \text{Free KBytes} - \text{Buffers KBytes} - \text{Cached KBytes} + \text{Shared KBytes}.$ <p>The Used KBytes value differs from the Linux term that displays in the top or free command output. The Used value that displays in the top or free command output equals the difference in Total KBytes - Free KBytes and also includes the sum of Buffers KBytes and Cached KBytes.</p>
Used Swap KBytes	This counter represents the amount of swap space that is in use on your system in kilobytes.
Used VM KBytes	<p>This counter represents the system physical memory and the amount of swap space that is in use on your system in kilobytes. The value is calculated as follows:</p> $\text{Total KBytes} - \text{Free KBytes} - \text{Buffers KBytes} - \text{Cached KBytes} + \text{Shared KBytes} + \text{Used Swap KBytes}$ <p>This value corresponds to Used Mem KBytes + Used Swap KBytes.</p>

## Network Interface

The network interface object provides information about the network interfaces on the system. The following table contains information about network interface counters.

**Table 10: Network Interface**

Counters	Counter Descriptions
Rx Bytes	The number of bytes, including framing characters, that are received on this interface.
Rx Dropped	The number of inbound packets that are chosen to be discarded even though no errors have been detected. This action prevents the packet from being delivered to a higher-layer protocol. Discarding packets also frees up buffer space.
Rx Errors	The number of inbound packets (packet-oriented interfaces) and the number of inbound transmission units (character-oriented or fixed-length interfaces) that contain errors that prevented them from being delivered to a higher-layer protocol.

Counters	Counter Descriptions
Rx Multicast	The number of multicast packets that are received on this interface.
Rx Packets	The number of packets that this sublayer delivered to a higher sublayer. This situation does not include the packets that are addressed to a multicast or broadcast address at this sublayer.
Total Bytes	The total number of received (Rx) bytes and transmitted (Tx) bytes.
Total Packets	The total number of Rx packets and Tx packets.
Tx Bytes	The total number of octets, including framing characters, that are transmitted out from the interface.
Tx Dropped	The number of outbound packets that are chosen to be discarded even though no errors are detected. This action prevents the packet from being delivered to a higher layer protocol. Discarding a packet also frees up buffer space.
Tx Errors	The number of outbound packets (packet-oriented interfaces) and the number of outbound transmission units (character-oriented or fixed-length interfaces) that are transmitted because of errors.
Tx Packets	The total number of packets that the higher-level protocols requested for transmission, including those that are discarded or not sent. This situation does not include packets that are addressed to a multicast or broadcast address at this sublayer.
Tx QueueLen	The length of the output packet queue (in packets).

## Number of Replicates Created and State of Replication

The Number of Replicates Created and State of Replication object provides real-time replication information for the system. The following table contains information about replication counters.

**Table 11: Number of Replicates Created and State of Replication**

Counters	Counter Descriptions
Number of Replicates Created	The number of replicates that are created by Informix for the DB tables. This counter displays information during Replication Setup.

Counters	Counter Descriptions
Replicate_State	<p>The state of replication. The following list provides possible values:</p> <p><b>0</b></p> <p>Initializing. The counter equals 0 when the server is not defined or when the server is defined but realizes the template has not completed.</p> <p><b>1</b></p> <p>Replication setup script fired from this node. Cisco recommends that you run <b>utils dbreplication status</b> on the CLI to determine the location and cause of the failure.</p> <p><b>2</b></p> <p>Good Replication.</p> <p><b>3</b></p> <p>Bad Replication. A counter value of 3 indicates replication in the cluster is bad. It does not mean that replication failed on a particular server in the cluster. Cisco recommends that you run <b>utils dbreplication status</b> on the CLI to determine the location and cause of the failure.</p> <p><b>4</b></p> <p>Replication setup did not succeed.</p>

## Partition

The partition object provides information about the file system and its usage in the system. The following table contains information about partition counters. These counters are also available for the spare partition, if present.

**Table 12: Partition**

Counters	Counter Descriptions
% CPU Time	The percentage of CPU time that is dedicated to handling IO requests that were issued to the disk.
% Used	The percentage of disk space that is in use on this file system.
% Wait in Read	Not Used. The Await Read Time counter replaces this counter. This counter is no longer valid with the counter value -1.

Counters	Counter Descriptions
% Wait in Write	Not Used. The Await Write Time counter replaces this counter. This counter is no longer valid with the counter value -1.
Await Read Time	The average time measured in milliseconds for read requests that are issued to the device to be served.
Await Time	The average time measured in milliseconds for input and output (I/O) requests that are issued to the device to be served. This reading includes the time spent by the requests in queue and the time spent servicing them.
Await Write Time	The average time measured in milliseconds for write requests that are issued to the device to be served.
Queue Length	The average queue length for the requests that are issued to the disk.
Read Bytes Per Sec	The amount of data in bytes per second that is read from the disk.
Total Mbytes	The amount of total disk space in megabytes that is on this file system.
Used Mbytes	The amount of disk space in megabytes that is in use on this file system.
Write Bytes Per Sec	The amount of data that is written to the disk in bytes per second.

## Process

The process object provides information about the processes that are running on the system. The following table contains information about process counters.

**Table 13: Process**

Counters	Counter Descriptions
% CPU Time	This counter, which is expressed as a percentage of total central processing unit (CPU) time, represents the tasks share of the elapsed CPU time since the last update.
% MemoryUsage	This counter represents the percentage of physical memory that a task is currently using.
Data Stack Size	This counter represents the stack size for task memory status.

Counters	Counter Descriptions
Nice	<p>This counter represents the nice value of the task.</p> <ul style="list-style-type: none"> <li>• A negative nice value indicates that the process has a higher priority.</li> <li>• A positive nice value indicates that the process has a lower priority.</li> </ul> <p><b>Note</b> If the nice value equals zero, do not adjust the priority when you are determining the dispatchability of a task.</p>
Page Fault Count	<p>This counter represents the number of major page faults that a task encounters that requires the data to be loaded into memory.</p>
PID	<p>This counter displays the task-unique process ID. The ID periodically wraps, but the value never equals zero.</p>
Process Status	<p>This counter displays the process status:</p> <p><b>0</b> Running</p> <p><b>1</b> Sleeping</p> <p><b>2</b> Uninterruptible disk sleep</p> <p><b>3</b> Zombie</p> <p><b>4</b> Stopped</p> <p><b>5</b> Paging</p> <p><b>6</b> Unknown</p>
Shared Memory Size	<p>This counter displays the amount of shared memory in kilobytes (KB) that a task is using. Other processes could potentially share the same memory.</p>
STime	<p>This counter displays the system time (STime), measured in jiffies, that this process has scheduled in kernel mode. A jiffy corresponds to a unit of CPU time and is used as a base of measurement. One second comprises 100 jiffies.</p>

Counters	Counter Descriptions
Thread Count	This counter displays the number of threads that are currently grouped with a task. A negative value (-1) indicates that this counter is currently not available. This situation happens when thread statistics (which include all performance counters in the Thread object as well as the Thread Count counter in the Process object) are turned off because the system total processes and threads exceed the default threshold value.
Total CPU Time Used	This counter displays the total CPU time in jiffies that the task used in user mode and kernel mode since the task started.
UTime	This counter displays the time, measured in jiffies, that a task has scheduled in user mode.
VmData	This counter displays the virtual memory usage of the heap for the task in KB.
VmRSS	This counter displays the virtual memory (Vm) resident set size (RSS) that is currently in physical memory in KB. This reading includes the code, data, and stack.
VmSize	This counter displays the total virtual memory usage for a task in KB. This reading includes all code, data, shared libraries, and pages that have been swapped out.  Virtual Image = swapped size + resident size
Wchan	This counter displays the channel (system call) in which the process is waiting.

## Processor

The processor object provides information about different processor time usage in percentages. The following table contains information about processor counters.

**Table 14: Processor**

Counters	Counter Descriptions
% CPU Time	This counter displays the processors share of the elapsed central processing unit (CPU) time, excluding idle time, since the last update. This share is expressed as a percentage of total CPU time.



Counters	Counter Descriptions
Idle Percentage	This counter displays the percentage of time that the processor is in the idle state and does not have an outstanding disk input and output (I/O) request.
IOWait Percentage	This counter represents the percentage of time that the processor is in the idle state while the system had an outstanding disk I/O request.
Irq Percentage	This counter represents the percentage of time that the processor spends executing the interrupt request that is assigned to devices, including the time that the processor spends sending a signal to the computer.
Nice Percentage	This counter displays the percentage of time that the processor spends executing at the user level with nice priority.
Softirq Percentage	This counter represents the percentage of time that the processor spends executing the soft IRQ and deferring task switching to get better CPU performance.
System Percentage	This counter displays the percentage of time that the processor is executing processes at the system (kernel) level.
User Percentage	This counter displays the percentage of time that the processor is executing normal processes at the user (application) level.

## System

The System object provides information about file descriptors on your system.

The following table contains information about system counters.

**Table 15: System**

Counters	Counter Descriptions
Allocated FDs	The number of allocated file descriptors.
Being Used FDs	The number of file descriptors that are currently in use in the system.
Freed FDs	The number of allocated file descriptors on the system that are freed.

Counters	Counter Descriptions
IOPerSecond	The number of input and output (I/O) operations on all disk partitions per second on this server. If you experience a system performance issue, use the information in this counter to measure the impact of the aggregate I/O operations on this server.
IOReadReqMergedPerSecond	The number of read requests merged per second that are queued to all devices on this server.
IOWriteReqMergedPerSecond	The number of write requests merged per second that are queued to all devices on this server.
IOReadReqPerSecond	The number of read requests per second that are issued to all devices on this server.
IOWriteReqPerSecond	The number of write requests per second that are issued to all devices on this server.
IOSectorsReadPerSecond	The number of sectors read per second from all devices on this server.
IOSectorsWrittenPerSecond	The number of sectors written per second to all devices on this server.
IOKBytesReadPerSecond	The number of KBytes read per second from all devices on this server.
IOKBytesWrittenPerSecond	The number of KBytes written per second to all devices on this server.
IOSectorsReqSizeAvg	The average size in sectors of the requests that are issued to all devices on this server.
IOReqQueueSizeAvg	The average queue length of the requests that are issued to all devices on this server.
IOAwait	The average time in milliseconds for I/O requests that are issued to all devices to be served. This reading includes the time spent by the requests in queue and the time spent servicing the requests.
IOServiceTime	The average service time in milliseconds for I/O requests that are issued to all devices on this server.
IOCpuUtil	The percentage of CPU time during which I/O requests are issued to the device (bandwidth utilization for the device) on this server.
Max FDs	The maximum number of file descriptors that are allowed on the system.

Counters	Counter Descriptions
Total CPU Time	The total time in jiffies that the system has been up and running.
Total Processes	The number of processes on the system.
Total Threads	The number of threads on the system.

## TCP

The TCP object provides information on the TCP statistics on your system.

The following table contains information about the TCP counters.

**Table 16: TCP**

Counters	Counter Description
Active Opens	This counter displays the number of times that the TCP connections make a direct transition to the SYN-SENT state from the CLOSED state.
Attempt Fails	This counter displays the number of times that the TCP connections make a direct transition to the CLOSED state from either the SYN-RCVD state or the SYN-RCVD state. The counter also displays the number of times TCP connections make a direct transition to the LISTEN state from the SYS-RCVD state.
Curr Estab	This counter displays the number of TCP connections with a current state of ESTABLISHED or CLOSE-WAIT.
Estab Resets	This counter displays the number of times that the TCP connections make a direct transition to the CLOSED state from the ESTABLISHED state or the CLOSE-WAIT state.
In Segs	This counter displays the total number of segments that are received, including those that are received in error. This count only includes segments that are received on currently established connections.
InOut Segs	This counter displays the total number of segments that are sent and the total number of segments that are received.
Out Segs	This counter displays the total number of segments that are sent. This count only includes segments that are sent on currently established connections, but excludes retransmitted octets.

Counters	Counter Description
Passive Opens	This counter displays the number of times that TCP connections make a direct transition to the SYN-RCVD state from the LISTEN state.
RetransSegs	This counter displays the total number of segments that are retransmitted because the segment contains one or more previously transmitted octets.

## Thread

The Thread object provides a list of running threads on your system.

The following table contains information about the Thread counters.

**Table 17: Thread**

Counters	Counter Description
% CPU Time	This counter displays the threads share of the elapsed CPU time since the last update. This counter expresses the share as a percentage of the total CPU time.
PID	This counter displays the threads leader process ID.

## AXL Web Service

The AXL Web Service object provides information about the AXL Web Service running on your system. The following table contains information about the AXL Web Service counters.

**Table 18: AXL Web Service**

Counters	Counter Description
ThrottleCount	This counter represents the number of times Administrative XML Layer (AXL) throttling has been engaged since the last restart of the Cisco AXL Web Service. Throttling occurs when the AXL service receives more change requests than it is able to process.

Counters	Counter Description
ThrottleState	This counter represents whether Administrative XML Layer (AXL) throttling is currently active (throttling is engaged). A value of 1 in this counter indicates that throttling is currently engaged, which means that any application attempting to send a write request to Unified Communications Manager through AXL will be denied due to AXL throttling. Read requests will continue to be allowed and processed while AXL throttling is engaged. A value of zero indicates that throttling is not occurring at this time and all read and write requests will be processed.

## Ramfs

The Ramfs object provides information about the ram file system. The following table contains information on the Ramfs counters.

**Table 19: Ramfs**

Counters	Counter Description
FilesTotal	This counter represents the total number of files in the ram-based file system (ramfs).
SpaceFree	This counter represents the amount of free data blocks in the ram-based file system (ramfs). A block is a uniformly sized unit of data storage for a filesystem. The block size specifies the size that the file system will use to read and write data. On the Unified Communications Manager system, the block size is 4096 bytes.
SpaceUsed	This counter represents the amount of used data blocks in the ram-based filesystem (ramfs). A block is a uniformly sized unit of data storage for a file system. The block size specifies the size that the file system will use to read and write data. On the Unified Communications Manager system, the block size is 4096 bytes.

## Voice and Video Counters

### Cisco Analog Access

The Cisco Analog Access object provides information about registered Cisco Analog Access gateways. The following table contains information about Cisco Analog Access counters.

Table 20: Cisco Analog Access

Counters	Counter Description
OutboundBusyAttempts	This counter represents the total number of times that Unified Communications Manager 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. The following table contains information about Cisco Annunciator counters.

Table 21: Cisco Annunciator Device

Counters	Counter Description
OutOfResources	This counter represents the total number of times that Unified Communications Manager 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 Call Restriction

The Cisco Call Restriction object provides information about the number of failures that result due to logical partitioning policy restrictions. The following table contains information about Cisco Call Restriction counters.

Table 22: Cisco Call Restriction

Counters	Counter Description
AdHocConferenceFailures	This counter represents the number of attempts that failed to add a participant to an Ad Hoc Conference because the call path between the geolocation of the devices already in conference and the device being invited to the conference was restricted due to a logical partition policy.
BasicCallFailures	This counter represents the number of basic calls that have failed because of logical partition policy restrictions between the geolocations of the called and calling parties. A basic call is any call that does not utilize supplementary services such as transfer, forward, and so on.
ForwardingFailures	This counter represents the number of attempts to forward an incoming call which failed because of a logical partition policy restriction between the geolocations of the two parties involved.
LogicalPartitionFailuresTotal	This counter represents the total number of call attempts that have failed because of a restriction of calls between geolocations of the calling and called parties. This includes the number of failures for Transfer, Ad Hoc Conference, Meet-Me Conference, PickUp, Call Park, Shared Lines and Basic Calls.
MeetMeConferenceFailures	This counter represents the number of attempts that failed to add a participant to a Meet-Me conference because the call path between the geolocation of the devices already in conference and the device attempting to join the conference was restricted due to a logical partition policy.
MidCallFailures	This counter represents the number of calls that have failed because of a restriction between the geolocations of the called or connected parties after the initial policy check.
ParkRetrievalFailures	This counter represents the number of attempts to perform a Call Park operation that failed because the device that was attempting to retrieve the call had a logical partition policy restriction with the geolocation of the parked party.
PickUpFailures	This counter represents the number of attempts to perform a PickUp operation that failed because the device on which the pickup was being attempted had a logical partition policy restriction with the geolocation of the calling device.

Counters	Counter Description
SharedLineFailures	This counter represents the number of attempts to use a shared line which failed because the caller or callee has a logical partition policy restriction with the geolocation of the devices having the shared lines.
TransferFailures	This counter represents the number of call transfer attempts that failed due to restriction of calls between the geolocation of the transferred party and the transferred destination.

## Cisco CallManager

The Cisco CallManager object provides information about calls, applications, and devices that are registered with the Unified Communications Manager. The following table contains information about Cisco CallManager counters.

**Table 23: Cisco CallManager**

Counters	Counter Description
AnnunciatorOutOfResources	This counter represents the total number of times that Unified Communications Manager attempted to allocate an annunciator resource from those that are registered to a Unified Communications Manager 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 Unified Communications Manager.
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 Unified Communications Manager.
AuthenticatedCallsActive	This counter represents the number of authenticated calls that are currently active (in use) on Unified Communications Manager. 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 Unified Communications Manager.



Counters	Counter Description
AuthenticatedCallsCompleted	This counter represents the number of authenticated calls that connected and subsequently disconnected through Unified Communications Manager. 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 Unified Communications Manager.
AuthenticatedPartiallyRegisteredPhone	This counter represents the number of partially registered, authenticated SIP phones.
AuthenticatedRegisteredPhones	This counter represents the total number of authenticated phones that are registered to Unified Communications Manager. An authenticated phone uses the TLS authenticated Skinny protocol signaling with Unified Communications Manager.
BRChannelsActive	This counter represents the number of BRI voice channels that are currently in an active call on this Unified Communications Manager.
BRISpansInService	This counter represents the number of BRI spans that are currently available for use.
CallManagerHeartBeat	This counter represents the heartbeat of Unified Communications Manager. This incremental count indicates that Unified Communications Manager is up and running. If the count does not increment, that indicates that Unified Communications Manager 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 Unified Communications Manager.
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. The system considers some call attempts during feature operations (such as transfer and conference) to be attempted calls.
CallsCompleted	This counter represents the number of calls that were actually connected (a voice path or video stream was established) through Unified Communications Manager. This number increases when the call terminates.

Counters	Counter Description
CallsInProgress	<p>This counter represents the number of voice or video calls that are currently in progress on Unified Communications Manager, including all active calls.</p> <p>When a phone that is registered with Skinny Client Control Protocol (SCCP) goes off hook, the CallsInProgress progress counter increments. until it goes back on hook.</p> <p>For Cisco Unified IP Phones 7940, and 7960 that register with SIP, the CallsInProgress counter increments when the dial softkey is pressed.</p> <p>For all other phones that are running SIP, the CallsInProgress counter increments when the first digit is pressed.</p> <p>When all voice or video calls that are in progress are connected, the number of CallsInProgress represents the number of CallsActive. The counter decreases by one when a phone goes back on hook.</p>
CM_MediaTermPointsRequestsThrottled	<p>This counter represents the total number of media termination point (MTP) resource requests that have been denied due to throttling (a resource from this MTP was not allocated because, as specified by the Cisco CallManager service parameter, MTP and Transcoder Resource Throttling Percentage, the MTP was being utilized beyond the configured throttle percentage). This counter increments each time a request for an MTP on this Unified Communications Manager node is requested and denied due to MTP throttling and reflects a running total since the start of the Cisco CallManager Service.</p>
CM_TranscoderRequestsThrottled	<p>This counter represents the total number of transcoder resource requests that have been denied due to throttling (a resource from this transcoder was not allocated because, as specified by the Cisco CallManager service parameter MTP and Transcoder Resource Throttling Percentage, the transcoder was being utilized beyond the configured throttle percentage). This counter increments each time a request for a transcoder on this Unified Communications Manager node is requested and denied due to transcoder throttling and reflects a running total since the start of the Cisco CallManager Service</p>

Counters	Counter Description
EncryptedCallsActive	This counter represents the number of encrypted calls that are currently active (in use) on this Unified Communications Manager. An encrypted call represents one in which all the endpoints that are participating in the call are encrypted.
EncryptedCallsCompleted	This counter represents the number of encrypted calls that were connected and subsequently disconnected through this Unified Communications Manager. An encrypted call represents one in which all the endpoints that are participating in the call are encrypted.
EncryptedPartiallyRegisteredPhones	This counter represents the number of partially registered, encrypted SIP phones.
EncryptedRegisteredPhones	This counter represents the total number of encrypted phones that are registered on this Unified Communications Manager.
FXOPortsActive	This counter represents the number of FXO ports that are currently in use (active) on a Unified Communications Manager.
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 Unified Communications Manager.
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 Unified Communications Manager.
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 Unified Communications Manager.

Counters	Counter Description
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 Unified Communications Manager 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 Unified Communications Manager attempted to allocate a hardware conference resource from those that are registered to a Unified Communications Manager when none was 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 Unified Communications Manager. System considers conference to be active when one or more calls are connected to a bridge.
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 allocated from Unified Communications Manager 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.
HWConferenceResourceTotal	This counter represents the number of active conferences on all hardware conference devices that are registered with Unified Communications Manager.

Counters	Counter Description
InitializationState	<p>This counter represents the current initialization state of Unified Communications Manager. Unified Communications Manager includes the following initialization state values:</p> <p>1-Database, 2-Regions, 3-Locations, 4-QoS Policy, 5-Time Of Day, 6-AAR Neighborhoods, 7-Digit Analysis, 8-Route Plan, 9-Call Control, 10-RSVP Session Manager, 11-Supplementary Services, 12-Directory, 13-SDL Link, 14-Device, 100-Initialization Complete.</p> <p>Not all states display when this counter is used. This display does not indicate that an error occurred; this display simply indicates that the states initialized and completed within the refresh period of the performance monitor.</p>
IVRResourceActive	This represents the total number of IVR resources that are currently in use on all IVR devices registered with Unified Communications Manager .
IVROutOfResources	This represents the total number of times Unified Communications Manager attempted to allocate an IVR resource from those that are registered to Unified Communications Manager when none were available.
IVRResourceAvailable	This represents the total number of IVR resources provided by all IVR devices that are currently registered with Unified Communications Manager.
IVRResourceTotal	This represents the total number of IVR resources provided by all IVR devices that are currently registered with Unified Communications Manager.
LocationOutOfResources	This counter represents the total number of times that a call through Locations failed due to the lack of bandwidth.
MCUConferencesActive	This counter represents the total number of active conferences on all Cisco TelePresence MCU conference bridge devices that are registered with Unified Communications Manager.
MCUConferencesCompleted	This counter represents the total number of conferences that used a Cisco TelePresence MCU conference bridge allocated from Unified Communications Manager and completed, implying that the conference bridge was allocated and released. A conference is activated when the first call is connected to the bridge. The conference is completed when the last call is disconnected from the bridge.

Counters	Counter Description
MCUHttpConnectionErrors	This counter represents the total number of times Unified Communications Manager attempted to create HTTP connections to Cisco TelePresence MCU conference bridge device, and failed due to connection errors on the Cisco TelePresence MCU conference bridge side.
MCUHttpNon200OKResponse	This counter represents the total number of times Unified Communications Manager received a non 200 OK HTTP Response from Cisco TelePresence MCU conference bridge, for any HTTP query sent.
MCUOutOfResources	This counter represents the total number of times Unified Communications Manager attempted to allocate a conference resource from Cisco TelePresence MCU conference bridge device and failed. For example, the attempt to allocate a conference resource fails, if all the resources are already in use.
MOHMulticastResourceActive	This counter represents the total number of multicast Music On Hold (MOH) resources that are currently in use (active) on all MOH servers that are registered with a Unified Communications Manager.
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 Unified Communications Manager.
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 Unified Communications Manager were already active.
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 Unified Communications Manager.
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 Unified Communications Manager. Each MOH unicast resource uses one stream.

Counters	Counter Description
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 Unified Communications Manager. Each MOH unicast resource uses one stream.
MOHUnicastResourceAvailable	This counter represents the total number of unicast MOH resources that are currently available on all MOH servers that are registered with Unified Communications Manager. Each MOH unicast resource uses one stream.
MTPOutOfResources	This counter represents the total number of times that Unified Communications Manager attempted but failed to allocate a media termination point (MTP) resource from one MTP device that is registered with Unified Communications Manager. 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 Unified Communications Manager. 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 Unified Communications Manager. 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 MTP resources that are provided by all MTP devices that are currently registered with Unified Communications Manager.
MTP_RequestsThrottled	This counter represents the total number of MTP resource requests that have been denied due to throttling (a resource from this MTP was not allocated because, as specified by the Cisco CallManager service parameter MTP and Transcoder Resource Throttling Percentage, the MTP was being utilized beyond the configured throttle percentage). This counter increments each time a resource is requested from this MTP and is denied due to throttling. This counter reflects a running total since the MTP device registered with the Cisco CallManager Service.

<b>Counters</b>	<b>Counter Description</b>
PartiallyRegisteredPhone	This counter represents the number of partially registered phones that are running SIP.
PRChannelsActive	This counter represents the number of PRI voice channels that are in an active call on a Unified Communications Manager.
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, Cisco Unified IP Phones 7960, 7940, 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 voicemail port).
SIPLineServerAuthorizationChallenges	This counter represents the number of authentication challenges for incoming SIP requests that the Unified Communications Manager server issued to phones that are running SIP. An authentication challenge occurs when a phone that is running SIP with Digest Authentication enabled sends a SIP line request to Unified Communications Manager.
SIPLineServerAuthorizationFailures	This counter represents the number of authentication challenge failures for incoming SIP requests from SIP phones to the Unified Communications Manager server. An authentication failure occurs when a SIP phone with Digest Authentication enabled sends a SIP line request with bad credentials to Unified Communications Manager.



Counters	Counter Description
SIPTrunkAuthorization	This counter represents the number of application-level authorization checks for incoming SIP requests that Unified Communications Manager has issued to SIP trunks. An application-level authorization check occurs when Unified Communications Manager compares an incoming SIP request to the application-level settings on the SIP Trunk Security Profile Configuration window in Cisco Unified Communications Manager Administration.
SIPTrunkAuthorizationFailures	This counter represents the number of application-level authorization failures for incoming SIP requests that have occurred on Unified Communications Manager SIP trunks. An application-level authorization failure occurs when Unified Communications Manager compares an incoming SIP request to the application-level authorization settings on the SIP Trunk Security Profile Configuration window in Cisco Unified Communications Manager Administration and finds that authorization for one or more of the SIP features on that window is not allowed.
SIPTrunkServerAuthenticationChallenges	This counter represents the number of authentication challenges for incoming SIP requests that Unified Communications Manager issued to SIP trunks. An authentication challenge occurs when a SIP trunk with Digest Authentication enabled sends a SIP request to Unified Communications Manager.
SIPTrunkServerAuthenticationFailures	This counter represents the number of authentication challenge failures that occurred for incoming SIP requests from SIP trunks to Unified Communications Manager. An authentication failure occurs when a SIP trunk with Digest Authentication enabled sends a SIP request with bad credentials to Unified Communications Manager.
SWConferenceActive	This counter represents the number of active conferences on all software conference devices that are registered with Unified Communications Manager.
SWConferenceCompleted	This counter represents the total number of conferences that used a software conference bridge that was allocated from a Unified Communications Manager 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.

Counters	Counter Description
SWConferenceOutOfResources	This counter represents the total number of times that Unified Communications Manager attempted to allocate a software conference resource from those that are registered to Unified Communications Manager 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 Unified Communications Manager. The system considers a conference to be active when one or more calls connect to a bridge. One resource equals one stream.
SWConferenceResourceAvailable	This counter represents the number of new software-based conferences that can be started at the same time, for Unified Communications Manager. You must have a minimum of three streams available for each new conference. One resource equals one stream.
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 Unified Communications Manager.
SystemCallsAttempted	This counter represents the total number of server-originated calls and attempted calls to the Unity message waiting indicator (MWI).
T1ChannelsActive	This counter represents the number of T1 CAS voice channels that are in an active call on a Unified Communications Manager.
T1SpansInService	This counter represents the number of T1 CAS spans that are currently available for use.
TLSConnectedSIPTrunks	This counter represents the number of SIP trunks that are configured and connected through Transport Layer Security (TLS).
TLSConnectedWSM	This counter represents the number of WSM Connectors that is configured and connected to Motorola WSM through Transport Layer Security (TLS).

Counters	Counter Description
TranscoderOutOfResources	This counter represents the total number of times that Unified Communications Manager attempted to allocate a transcoder resource from a transcoder device that is registered to a Unified Communications Manager when none was available.
TranscoderResourceActive	This counter represents the total number of transcoders that are in use on all transcoder devices that are registered with Unified Communications Manager. 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 Unified Communications Manager. Each transcoder resource uses two streams.
TranscoderResourceTotal	This counter represents the total number of transcoder resources that are provided by all transcoder devices that are currently registered with Unified Communications Manager.
VCBConferenceActive	This counter represents the total number of active video conferences on all video conference bridge devices that are registered with Unified Communications Manager.
VCBConferenceAvailable	This counter represents the total number of new video conferences on all video conference bridge devices that are registered with Unified Communications Manager.
VCBConferenceCompleted	This counter represents the total number of video conferences that used a video conference bridge that are allocated from Unified Communications Manager 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.
VCBConferenceTotal	This counter represents the total number of video conferences that are supported on all video conference bridge devices that are registered with Unified Communications Manager.

Counters	Counter Description
VCBOutOfConferences	This counter represents the total number of times that Unified Communications Manager attempted to allocate a video conference resource from those that are registered to Unified Communications Manager when none was available.
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.
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 Unified Communications Manager.
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 Unified Communications Manager.
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 Unified Communications Manager.
VideoCallsCompleted	This counter 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 Unified Communications Manager attempted to allocate a video-streaming resource from one of the video conference bridge devices that is registered to Unified Communications Manager when none was available.

Counters	Counter Description
XCODE_RequestsThrottled	This counter represents the total number of transcoder resource requests that have been denied due to throttling (a resource from this transcoder was not allocated because, as specified by the Cisco CallManager service parameter MTP and Transcoder Resource Throttling Percentage, the transcoder was being utilized beyond the configured throttle percentage). This counter increments each time a resource is requested from this transcoder and is denied due to throttling. This counter reflects a running total since the transcoder device registered with the Cisco CallManager Service.

## Cisco CallManager System Performance

The Cisco CallManager System Performance object provides system performance information about Unified Communications Manager. The following table contains information about Cisco CallManager system performance counters.

**Table 24: Cisco CallManager System Performance**

Counters	Counter Description
AverageExpectedDelay	This counter represents the current average expected delay before any incoming message gets handled.
CallsRejectedDueToICTThrottling	This counter represents the total number of calls that were rejected since the start of Cisco CallManager service due to Intercluster Trunk (ICT) call throttling. When the threshold limit of 140 calls per 5 seconds is met, the ICT will start throttling (rejecting) new calls. One cause for ICT call throttling occurs when calls across an ICT enter a route loop condition.
CallThrottlingGenericCounter3	This counter represents a generic counter that is used for call-throttling purpose.
CodeRedEntryExit	This counter indicates whether Unified Communications Manager has entered or exited a Code state (call-throttling mode). Valid values include 0 (Exit) and 1 (Entry).
CodeYellowEntryExit	This counter indicates whether Unified Communications Manager 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.

Counters	Counter Description
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.
QueueSignalsPresent 1-High	This counter indicates the number of high-priority signals in the Unified Communications Manager queue. High-priority signals include timeout events, internal Unified Communications Manager keepalives, certain gatekeeper events, and internal process creation, among other events. A large number of high-priority events will cause degraded performance on Unified Communications Manager and 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 Unified Communications Manager.

Counters	Counter Description
QueueSignalsPresent 2-Normal	<p>This counter indicates the number of normal-priority signals in the Unified Communications Manager 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 Unified Communications Manager, 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 Unified Communications Manager. 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>
QueueSignalsPresent 3-Low	<p>This counter indicates the number of low-priority signals in the Unified Communications Manager 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.</p>
QueueSignalsPresent 4-Lowest	<p>This counter indicates the number of lowest priority signals in the Unified Communications Manager 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.</p>
QueueSignalsProcessed 1-High	<p>This counter indicates the number of high-priority signals that Unified Communications Manager processes for each 1-second interval. Use this counter in conjunction with the QueueSignalsPresent 1-High counter to determine the processing delay on this queue.</p>
QueueSignalsProcessed 2-Normal	<p>This counter indicates the number of normal-priority signals that Unified Communications Manager processes 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.</p>

Counters	Counter Description
QueueSignalsProcessed 3-Low	This counter indicates the number of low-priority signals that Unified Communications Manager processes 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 Unified Communications Manager processes 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 that are processed gives an indication of how many devices began the Unified Communications Manager registration process in this time interval.
QueueSignalsProcessed Total	This counter provides a sum total of all queue signals that Unified Communications Manager processes 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 interval.
ThrottlingSampleActivity	This counter indicates how many samples, out of the configured sample size, have non-zero averageExpectedDelay values. This counter resets when any sample has an averageExpectedDelay value of zero. This process repeats for each batch of samples. A batch represents the configured sample size.
TotalCodeYellowEntry	This counter indicates the number of times that Unified Communications Manager call processing enters the code yellow state. This counter remains cumulative from the start of the Unified Communications Manager process.



## Cisco CTIManager

The Cisco CTI Manager object provides information about Cisco CTI Manager. The following table contains information about Cisco CTIManager counters.

**Table 25: Cisco CTI Manager**

Counters	Counter Description
CcmLinkActive	This counter represents the total number of active Unified Communications Manager links. CTI Manager maintains links to all active servers in a cluster, if applicable.
CTIConnectionActive	This counter represents the total number of CTI clients that are currently connected to the CTIManager. This counter increases by one when new connection is established and decreases by one when a connection is released. The CTIManager service parameter MaxCTIConnections determines the maximum number of active connections.
DevicesOpen	This counter represents the total number of devices that are configured in Unified Communications Manager 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 Unified Communications Manager that control and/or monitor CTI applications.
QbeVersion	This counter represents the version number of the Quick Buffer Encoding (QBE) interface that the CTIManager uses.

## Cisco Dual-Mode Mobility

The Cisco Dual-Mode Mobility object provides information about the dual-mode mobility application on Unified Communications Manager. The following table contains information about Cisco Dual-Mode Mobility counters.

Table 26: Cisco Dual-Mode Mobility

Counters	Counter Description
CallsAnchored	This counter represents the number of calls that are placed or received on dual-mode phones that are anchored in Unified Communications Manager. The counter increments when a call is received from or placed to a dual-mode phone. The counter increments twice if a dual-mode phone calls another dual-mode phone.
DMMSRegistered	This counter represents the number of Dual-mode Mobile Station (DMMS) subscribers that are registered in the wireless LAN (WLAN).
FollowMeAborted	This counter represents the number of failed follow-me operations.
FollowMeAttempted	This counter represents the number of follow-me operations that Unified Communications Manager attempted. The counter increments when a SIP 302 - Moved Temporarily message is received from the Wireless Service Manager (WSM) and Unified Communications Manager redirects the call to the DMMS in WLAN.
FollowMeCompleted	This counter represents the number of follow-me operations that were successfully completed. The counter increments when the DMMS in WLAN answers the call and the media (voice path) is successfully established with the calling device.
FollowMeInProgress	This counter represents the number of follow-me operations that are currently in progress. The counter increments when a follow-me is attempted, and it decrements when the follow-me operation is aborted or completed.
H1HandOutAttempted	This counter represents the number of H1 hand-out operations that dual-mode phones attempt. The counter increments when Unified Communications Manager processes a call to the H1 number from a DMMS.
H1HandOutCompleted	This counter represents the number of successfully completed H1 hand-out operations. The counter increments when the DMMS in WLAN successfully reestablishes a media (voice path).

Counters	Counter Description
H2HandOutCompleted	This counter represents the number of successfully completed H2 hand-out operations. The counter increments when the DMMS in WLAN successfully reestablishes a media (voice path).
H2HandOutsAttempted	This counter represents the number of H2 hand-out operations that dual-mode phones attempt. The counter increments when Unified Communications Manager receives a call to the H2 number from a DMMS.
HandInAborted	This counter represents the number of hand-in operations that failed.
HandInAttempted	This counter represents the number of hand-in operations that dual-mode phones attempt.
HandInCompleted	This counter represents the number of successfully completed hand-in operations. The counter increments when the DMMS in WLAN successfully reestablishes a media (voice path).
HandInInProgress	This counter represents the number of hand-in operations that are currently in progress. The counter increments when a hand-in is attempted, and the counter decrements when the hand-in is aborted or completed.
HandOutAborted	This counter represents the number of hand-out operations that failed.
HandOutInProgress	This counter represents the number of H1 and H2 hand-out operations that are currently in progress. The counter increments when a H1 or H2 hand-out is attempted, and it decrements when the hand-out is aborted or completed.

## Cisco Extension Mobility

The Cisco Extension Mobility object provides information about the extension mobility application. The following table contains information about Cisco Extension Mobility counters.

Table 27: Cisco Extension Mobility Application

Counters	Counter Description
RequestsHandled	This counter represents the total number of HTTP requests that the extension mobility application 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.
RequestsInProgress	This counter represents the number of HTTP requests that the extension mobility application currently is handling. 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.
RequestsThrottled	This counter represents the total number of Login/Logout Requests that failed due to throttling.
LoginsSuccessful	This counter represents the total number of successful login requests that were completed through EM Service.
LogoutsSuccessful	This counter represents the total number of successful logout requests that were completed through EM Service
Total Login/LogoutRequestsAttempted	This counter represents the total number of Login and Logout requests that were attempted through this EM Service. This number includes both successful and unsuccessful attempts.

## Cisco Gatekeeper

The Cisco Gatekeeper object provides information about registered Cisco gatekeeper devices. The following table contains information about Cisco gatekeeper device counters.

Table 28: Cisco Gatekeeper

Counters	Counter Description
ACFsReceived	This counter represents the total number of RAS Admission Confirm messages that are received from the configured gatekeeper and its alternate gatekeepers.

Counters	Counter Description
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. The following table contains information about Cisco H.323 device counters.

**Table 29: Cisco H.323**

Counters	Counter Description
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 that is 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.
CallsRejectedDueToICTCallThrottling	This counter represents the total number of calls rejected due to Intercluster Trunk (ICT) call throttling since the start of the Cisco CallManager service. When the system reaches a threshold limit of 140 calls per 5 seconds, ICT will start throttling (rejecting) new calls. One cause for ICT call throttling occurs when calls across an ICT enter a route loop condition.

Counters	Counter Description
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 Unified Communications Manager; in other words, the number of calls that actually have video-streaming connections on a Unified Communications Manager.
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 Unified Communications Manager. 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 Unified Communications Manager Administration. The following table contains information about Cisco hunt list counters.

**Table 30: Cisco Hunt Lists**

Counters	Counter Description
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.

Counters	Counter Description
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. Reasons that a hunt list could be out of service include the hunt list is not running on a primary Unified Communications Manager based on its Unified Communications Manager Group or the hunt list has been disabled in Cisco Unified Communications Manager 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 comprise 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. The following table contains information about Cisco hardware conference bridge device counters.

**Table 31: Cisco HW Conference Bridge Device**

Counters	Counter Description
HWConferenceActive	This counter represents the number of conferences that are currently active (in use) on a HW conference bridge device. One resource represents one stream.
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.

Counters	Counter Description
ResourceActive	This counter represents the number of resources that are currently in use (active) for this HW conference device. One resource represents one stream.
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. One resource represents one stream.
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. One resource represents one stream.

## Cisco IP Manager Assistant

The Cisco IP Manager Assistant (IPMA) Service object provides information about the Cisco Unified Communications Manager Assistant application. The following table contains information on Cisco IPMA counters.

**Table 32: Cisco IP Manager Assistant Service**

Counters	Counter Description
AssistantsActive	This counter represents the number of assistant consoles that are currently active. An active assistant console exists when an assistant is logged in from the assistant console desktop application.
LinesOpen	This counter represents the number of phone lines that the Cisco Unified Communications Manager Assistant application opened. An open phone line exists when the application assumes line control from CTI.
ManagersActive	This counter represents the current number of managers that the Cisco IPMA is servicing.
SessionsCurrent	This counter represents the total number of managers assistants that are currently using the Cisco Unified Communications Manager Assistant application. Each manager and each assistant constitute an active session; so, for one manager/assistant pair, this counter would reflect two sessions.



## Cisco LBM service

The Cisco LBM service object provides information about LBM service that is defined in Unified Communications Manager. The following table contains information on Cisco LBM service counters.

**Table 33: Cisco LBM service**

Counters	Counter Description
Is Hub[1] or Spoke[0]	This counter represents the state of Location Bandwidth Manager. Spoke state is represented by 0 and hub state with a value of 1.
LocalHubNodesConnected	This counter represents the number of local hub nodes connected.
LocalSpokesNodesConnected	This counter represents the number of local spoke nodes connected.
RemoteHubNodesConnectedInsecure	This counter represents the number of insecure remote hub nodes connected.
RemoteHubNodesConnectedSecure	This counter represents the number of secure remote hub nodes connected.

## 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.

The Active counter represents the state of the line, either active or not active. A zero indicates that 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 that 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 LBM

The Cisco Location LBM object provides information about locations that are defined in Unified Communications Manager clusters. The following table contains information on Cisco location counters.

**Table 34: Cisco Locations LBM**

Counters	Counter Description
BandwidthAvailable	This counter represents the current audio bandwidth in a location or a link between two locations. A value of 0 indicates that no audio bandwidth is available.

<b>Counters</b>	<b>Counter Description</b>
BandwidthMaximum	This counter represents the maximum audio bandwidth that is available in a location or a link between two locations. A value of 0 indicates that no audio bandwidth is available.
BandwidthOversubscription	This represents the current oversubscribed audio bandwidth in a location or link between two locations. A value of zero indicates no bandwidth oversubscription.
CallsInProgress	This counter represents the number of calls that are currently in progress on a particular Cisco Location Bandwidth Manager.
ImmersiveOutOfResources	This represents the total number of failed immersive video call bandwidth reservations associated with a location or a link between two locations due to lack of immersive video bandwidth.
ImmersiveVideoBandwidthAvailable	This counter represents the maximum bandwidth that is available for video in a location or a link between two locations. A value of 0 indicates that no bandwidth is allocated for video.
ImmersiveVideoBandwidthMaximum	This counter represents the bandwidth that is currently available for video in a location or a link between two locations. A value of 0 indicates that no bandwidth is available.
ImmersiveVideoBandwidthOversubscription	This represents the current immersive video oversubscribed bandwidth in a location or link between two locations. A value of zero indicates no bandwidth oversubscription.
OutOfResources	This counter represents the total number of failed audio call bandwidth reservations associated with a given location or a link between two locations due to lack of audio bandwidth.
VideoBandwidthAvailable	This counter represents the bandwidth that is currently available for video in a location or a link between two locations. A value of 0 indicates that no bandwidth is available.
VideoBandwidthMaximum	This counter represents the maximum bandwidth that is available for video in a location and a link between two locations. A value of 0 indicates that no bandwidth is allocated for video.

Counters	Counter Description
VideoOversubscription	This represents the current video oversubscribed bandwidth amount in a location and a link between two locations. A value of zero indicates no bandwidth oversubscription.
VideoOutOfResources	This counter represents the total number of failed video call bandwidth reservations associated with a given location or a link between two locations due to lack of video bandwidth.

## Cisco Locations RSVP

The Cisco Location RSVP object provides information about RSVP that is defined in Unified Communications Manager. The following table contains information on Cisco location RSVP counters.

**Table 35: Cisco Locations RSVP**

Counters	Counter Description
RSVP AudioReservationErrorCounts	This counter represents the number of RSVP reservation errors in the audio stream.
RSVP MandatoryConnectionsInProgress	This counter represents the number of connections with mandatory RSVP that are in progress.
RSVP OptionalConnectionsInProgress	This counter represents the number of connections with optional RSVP that are in progress.
RSVP TotalCallsFailed	This counter represents the number of total calls that failed due to a RSVP reservation failure.
RSVP VideoCallsFailed	This counter represents the number of video calls that failed due to a RSVP reservation failure.
RSVP VideoReservationErrorCounts	This counter represents the number of RSVP reservation errors in the video stream

## Cisco Media Streaming Application

The Cisco IP Voice Media Streaming Application object provides information about the registered MTPs, MOH servers, conference bridge servers, and annunciators. The following table contains information on Cisco IP Voice Media Streaming Application counters.



**Note** One object exists for each Unified Communications Manager in the Unified Communications Manager group that is associated with the device pool that the annunciator device is configured to use.

Table 36: Cisco Media Streaming Application

Counter	Counter Description
ANNConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Unified Communications Manager connection was lost.
ANNConnectionState	For each Unified Communications Manager that is associated with an annunciator, this counter represents the current registration state to Unified Communications Manager; 0 indicates no registration to Unified Communications Manager; 1 indicates registration to the primary Unified Communications Manager; 2 indicates connection to the secondary Unified Communications Manager (connected to Unified Communications Manager but not registered until the primary Unified Communications Manager 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.
ANNStreamsActive	This counter represents the total number of currently active simplex (one direction) streams for all connections. Each stream direction counts as one stream. One internal stream provides the audio input and another output stream to the endpoint device.
ANNStreamsAvailable	This counter represents the remaining number of streams that are 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 that started.
ANNStreamsTotal	This counter represents the total number of simplex (one direction) streams that 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.

Counter	Counter Description
CFBConferencesTotal	This counter represents the total number of conferences that started since the Cisco IP Voice Media Streaming Application service started.
CFBConnectionsLost	This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Unified Communications Manager connection was lost.
CFBConnectionState	For each Unified Communications Manager that is associated with a SW Conference Bridge, this counter represents the current registration state to Unified Communications Manager; 0 indicates no registration to Unified Communications Manager; 1 indicates registration to the primary Unified Communications Manager; 2 indicates connection to the secondary Unified Communications Manager (connected to Unified Communications Manager but not registered until the primary Unified Communications Manager 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 equals 6.
CFBStreamsAvailable	This counter represents the remaining number of streams that are 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 connected to the conference bridge since the Cisco IP Voice Media Streaming Application service started.

Counter	Counter Description
MOHAudioSourcesActive	<p>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 no devices are listening. The exception exists for multicast audio sources, which will always be streaming audio.</p> <p>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 exist 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 the default audio source is configured for multicast, G.711 mu-law and wideband codecs, then two streams get used (default audio source + G.711 mu-law and default audio source + wideband).</p>
MOHConnectionsLost	<p>This counter represents the total number of times since the last restart of the Cisco IP Voice Media Streaming Application that a Unified Communications Manager connection was lost.</p>
MOHConnectionState	<p>For each Unified Communications Manager that is associated with an MOH, this counter represents the current registration state to Unified Communications Manager; 0 indicates no registration to Unified Communications Manager; 1 indicates registration to the primary Unified Communications Manager; 2 indicates connection to the secondary Unified Communications Manager (connected to Unified Communications Manager but not registered until the primary Unified Communications Manager connection fails).</p>

Counter	Counter Description
MOHStreamsActive	<p>This counter represents the total number of active (currently in use) simplex (one direction) streams for all connections. One output stream exists for each device that is listening to a unicast audio source, and one input stream exists for each active audio source, multiplied by the number of MOH codecs.</p> <p>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 exist 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 the default audio source is configured for multicast, G.711 mu-law and wideband codecs, then two streams get used (default audio source + G.711 mu-law and default audio source + wideband).</p>
MOHStreamsAvailable	<p>This counter represents the remaining number of streams that are 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 that started. The counter gets reduced by 2 for each multicast audio source, multiplied by the number of MOH codecs that are configured. The counter gets reduced by 1 for each unicast audio source, multiplied by the number of MOH codecs configured.</p>
MOHStreamsTotal	<p>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.</p>
MTPConnectionsLost	<p>This counter represents the total number of times since the last restart of the Cisco IP Voice Streaming Application that a Unified Communications Manager connection was lost.</p>
MTPConnectionState	<p>For each Unified Communications Manager that is associated with an MTP, this counter represents the current registration state to Unified Communications Manager; 0 indicates no registration to Unified Communications Manager; 1 indicates registration to the primary Unified Communications Manager; 2 indicates connection to the secondary Unified Communications Manager (connected to Unified Communications Manager but not registered until the primary Unified Communications Manager connection fails).</p>

<b>Counter</b>	<b>Counter Description</b>
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.
MTPStreamsAvailable	This counter represents the remaining number of streams that are 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 connected to the MTP device since the Cisco IP Voice Media Streaming Application service started.
IVRInstancesActive	This represents the number of current active interactive voice responses.
IVRStreamsActive	This represents the total number of current active simplex (one direction) stream 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.
IVRStreamsAvailable	This represents the remaining number of streams allocated for the IVR device that are available for use. This counter starts as 3 multiplied by the number of configured connections (defined in the Cisco IP Voice Media Streaming App service parameter for the IVR, Call Count) and is reduced by one for each active stream started.
IVRConnectionsTotal	This represents the total number of IVR instances that have been started since the Cisco IP Voice Media Streaming Application service started.
IVRStreamsTotal	This represents the total number of simplex (one direction) streams that have been connected to the IVR device since the Cisco IP Voice Media Streaming Application service started.



Counter	Counter Description
IVRConnectionsLost	This represents the total number of times the Unified Communications Manager connection was lost, since the last restart of the Cisco IP Voice Media Streaming Application.
IVRErrors	This represents the total number of times the IVR failed to play, since the last restart of the Cisco IP Voice Media Streaming Application.

## Cisco Messaging Interface

The Cisco Messaging Interface object provides information about the Cisco Messaging Interface (CMI) service. The following table contains information on Cisco Messaging Interface (CMI) counters.

**Table 37: Cisco Messaging Interface**

Counters	Counter Description
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), 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 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) Foreign Exchange Office (FXO) Device object provides information about registered Cisco MGCP BRI devices. The following table contains information on Cisco MGCP BRI device counters.

*Table 38: Cisco MGCP BRI Device*

Counters	Counter Description
CallsCompleted	This counter represents the total number of successful calls that were made from this MGCP Basic Rate Interface (BRI) device
Channel 1 Status	This counter represents the status of the indicated B-Channel that is 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 that is 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.
DatalinkInService	This counter represents the state of the Data Link (D-Channel) on the corresponding digital access gateway. This value will get 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 that a call through this MGCP BRI device was attempted when no voice channels are available.

## 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. The following table contains information on Cisco MGCP FXO device counters.

**Table 39: Cisco MGCP FXO Device**

Counters	Counter Description
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, a fully configured Catalyst 6000 Analog Interface Module would represent 24 separate instances of this object. The following table contains information on Cisco MGCP FXS device counters.

**Table 40: Cisco MGCP FXS Device**

Counters	Counter Description
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. The following table contains information on Cisco MGCP gateway counters.

**Table 41: Cisco MGCP Gateways**

Counters	Counter Description
BRChannelsActive	This counter represents the number of BRI voice channels that are currently active in a call in the gateway

Counters	Counter Description
BRISpansInService	This counter represents the number of BRI spans that are currently available for use 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. The following table contains information on Cisco MGCP PRI device counters.

**Table 42: Cisco MGCP PRI Device**

Counters	Counter Description
CallsActive	This counter represents the number of calls that are currently active (in use) on this MGCP PRI device.
CallsCompleted	This counter represents the total number of successful calls that were made from this MGCP PRI device.

Counters	Counter Description
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.
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 that a call through an MGCP PRI device was attempted when no voice channels were 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. The following table contains information on Cisco MGCP T1 CAS device counters.

**Table 43: Cisco MGCP T1 CAS Device**

Counters	Counter Description
CallsActive	This counter represents the number of calls that are currently active (in use) on this MGCP T1 CAS device.
CallsCompleted	This counter represents the total number of successful calls that were made from this MGCP T1 CAS device.

Counters	Counter Description
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 Mobility Manager

The Cisco Mobility Manager object provides information on registered Cisco Unified Mobility Manager devices. The following table contains information on Cisco Unified Mobility Manager device counters.

**Table 44: Cisco Mobility Manager**

Counters	Counter Description
MobileCallsAnchored	This counter represents the total number of paths that are associated with single-mode/dual-mode phone call that is currently anchored on a Unified Communications Manager. Call anchoring occurs when a call enters an enterprise gateway and connects to a mobility application that then uses redirection to send the call back out an enterprise gateway. For example, this counter increments twice for a dual-mode phone-to-dual-mode phone call: once for the originating call and once for the terminating call. When the call terminates, this counter decrements accordingly.
MobilityHandinsAborted	This counter represents the total number of aborted handins.
MobileHandinsCompleted	This counter represents the total number of handins that were completed by dual-mode phones. A completed handin occurs when the call successfully connects in the enterprise network and the phone moves from WAN to WLAN.
MobilityHandinsFailed	This counter represents the total number of handins (calls on mobile devices that move from cellular to the wireless network) that failed.

Counters	Counter Description
MobilityHandoutsAborted	This counter represents the total number of aborted handouts.
MobileHandoutsCompleted	This counter represents the total number of handouts (calls on mobile devices that move from the enterprise WLAN network to the cellular network) that were completed. A completed handout occurs when the call successfully connects.
MobileHandoutsFailed	This counter represents the total number of handouts (calls on mobile devices that move from cellular to the wireless network) that failed.
MobilityFollowMeCallsAttempted	This counter represents the total number of follow-me calls that were attempted.
MobilityFollowMeCallsIgnoredDueToAnswerTooSoon	This counter represents the total number of follow-me calls that were ignored before the AnswerTooSoon timer went off.
MobilityIVRCallsAttempted	This counter represents the total number of attempted IVR calls.
MobilityIVRCallsFailed	This counter represents the total number of failed IVR calls.
MobilityIVRCallsSucceeded	This counter represents the total number of successful IVR calls.
MobilitySCCPDualModeRegistered	This counter represents the total number of dual-mode SCCP devices that are registered.
MobilitySIPDualModeRegistered	This counter represents the total number of dual-mode SIP devices that are registered.

## Cisco Music On Hold (MOH) Device

The Cisco Music On Hold (MOH) Device object provides information about registered Cisco MOH devices. The following table contains information on Cisco MOH device counters.

**Table 45: Cisco MOH Device**

Counters	Counter Description
MOHHighestActiveResources	This counter represents the largest number of simultaneously active MOH connections for an MOH server. This number includes both multicast and unicast connections.

Counters	Counter Description
MOHMulticastResourceActive	<p>This counter represents the number of currently active multicast connections to multicast addresses that are served by an MOH server.</p> <p>Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if the default audio source is configured for multicast, G.711 mu-law and wideband codecs, two streams get 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> <p>Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if the default audio source is configured for multicast, G.711 mu-law and wideband codecs, two streams get used (default audio source + G.711 mu-law and default audio source + wideband).</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 Unified Communications Manager were already active.</p>
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>Each MOH multicast resource uses one stream for each audio source and codec combination. For example, if the default audio source is configured for multicast, G.711 mu-law and wideband codecs, two streams get 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>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>Each MOH unicast resource uses one stream.</p>



Counters	Counter Description
MOHUnicastResourceAvailable	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.  Each MOH unicast resource uses one stream.

## Cisco MTP Device

The Cisco Media Termination Point (MTP) Device object provides information about registered Cisco MTP devices. The following table contains information on Cisco MTP device counters.

*Table 46: Cisco MTP Device*

Counters	Counter Description
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	This counter represents the number of MTP resources that are currently in use (active) for an MTP device.  Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.
ResourceAvailable	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.  Each MTP resource uses two streams. An MTP in use represents one MTP resource that has been allocated for use in a call.
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 Unified IP Phones, including both hardware-based and other station devices.

The CallsAttempted 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 Presence Feature

The Cisco Presence object provides information about presence subscriptions, such as statistics that are related to the speed dial or call list Busy Lamp Field (BLF) subscriptions. The following table contains information on Cisco Presence feature.

**Table 47: Cisco Presence**

Counters	Counter Description
ActiveCallListAndTrunkSubscriptions	This counter represents the active presence subscriptions for the call list feature as well as presence subscriptions through SIP trunk.
ActiveSubscriptions	This counter represents all active incoming and outgoing presence subscriptions.
CallListAndTrunkSubscriptionsThrottled	This counter represents the cumulative number of rejected call list and trunk side presence subscriptions due to throttling for the call list feature.
IncomingLineSideSubscriptions	This counter represents the cumulative number of presence subscriptions that were received on the line side.
IncomingTrunkSideSubscriptions	This counter represents the cumulative number of presence subscriptions that were received on the trunk side.
OutgoingTrunkSideSubscriptions	This counter represents the cumulative number of presence subscriptions that were sent on the trunk side.

## Cisco QSIG Feature

The Cisco QSIG Feature object provides information about the operation of various QSIG features, such as call diversion and path replacement. The following table contains information about the Cisco QSIG feature counters.

**Table 48: Cisco QSIG Feature**

Counters	Counter Description
CallForwardByRerouteCompleted	This counter represents the number of successful calls that has been forwarded by rerouting. Call forward by rerouting enables the path for a forwarded call to be optimized (minimizes the number of B-Channels in use) from the originator perspective. This counter resets when the Cisco CallManager service parameter Call Forward by Reroute Enabled is enabled or disabled, or when the Cisco CallManager Service restarts.

Counters	Counter Description
PathReplacementCompleted	This counter represents the number of successful path replacements that have occurred. Path replacement in a QSIG network optimizes the path between two edge PINX (PBXs) that are 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.

## Cisco Signaling Performance

The Cisco Signaling Performance object provides call-signaling data on transport communications on Unified Communications Manager. The following table contains information about the Cisco Signaling Performance counter.

**Table 49: Cisco Signaling Performance**

Counters	Counter Description
UDPPacketsThrottled	This counter represents the total number of incoming UDP packets that were throttled (dropped) because they exceeded the threshold for the number of incoming packets per second that is allowed from a single IP address. Configure the threshold via the SIP Station UDP Port Throttle Threshold and SIP Trunk UDP Port Throttle Threshold service parameters in Cisco Unified Communications Manager Administration. This counter increments for every throttled UDP packet that was received since the last restart of the Cisco CallManager Service.

## Cisco SIP

The Cisco Session Initiation Protocol (SIP) object provides information about configured SIP devices. The following table contains information on the Cisco SIP counters.

**Table 50: Cisco SIP**

Counters	Counter Description
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 the successful and unsuccessful call attempts.

Counters	Counter Description
CallsCompleted	This counter represents the number of calls that were actually connected (a voice path was established) from a SIP device. This number increments when the call is terminated.
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.
VideoCallsActive	This counter represents the number of video calls with streaming video connections that are currently active (in use) on this SIP device.
VideoCallsCompleted	This counter represents the number of video calls that were actually connected with video streams for this SIP device. This number increments when the call is terminated.

## Cisco SIP Line Normalization

The Cisco SIP line normalization performance object contains counters that allow you to monitor aspects of the normalization script for SIP lines, including initialization errors, runtime errors, and script status. For SIP lines, each script has only one set of performance counters. This is true even if two endpoints share the same script. The following table contains information about the Cisco SIP line normalization counters.

Display Names	Description
DeviceResetAutomatically	This counter indicates the number of times that Unified Communications Manager automatically resets the device (SIP phone). Automatic resets occur only if the value specified in Script Execution Error Recovery Action or System Resource Error Recovery Action field is set to Reset Device. This counter increments each time Unified Communications Manager automatically resets a device (SIP phone) due to an error. The count is restarted when the script is reset following a change to the script configuration.

Display Names	Description
ErrorExecution	<p>This counter indicates the number of execution errors that occur while the script executes. Execution errors can occur while a message handler executes. Execution errors can be caused by problems such as resource errors or an argument mismatch in a function call.</p> <p>When an execution error occurs, Unified Communications Manager performs the following actions:</p> <ul style="list-style-type: none"> <li>• Automatically restores the message to the original content before applying additional error-handling actions.</li> <li>• Increments the value of the counter.</li> <li>• Takes appropriate action based on the configuration of the Script Execution Error Recovery Action and System Resource Error Recovery Action fields in Cisco Unified Communications Manager Administration.</li> </ul> <p>Check the SIPNormalizationScriptError alarm for details, including the line number in the script that failed. Correct the script problem, upload the corrected script as needed, and reset the script by clicking the Reset button at the top of the script configuration page. The counter increments for each execution error since the last time the script was reset following a change to the script configuration. Both a script configuration change and a script reset must occur to restart the counter.</p> <p>If the counter continues to increment after you fix the script problem, examine the script again.</p>
ErrorInit	<p>This counter indicates the number of times a script error occurred after the script was successfully loaded into memory but failed to initialize in Unified Communications Manager. A script can fail to initialize due to resource errors, an argument mismatch in a function call, and so on.</p> <p>Check the SIPNormalizationScriptError alarm for details, including the line number in the script that failed. Correct the script problem, upload the corrected script if needed, and reset the script by clicking the Reset button at the top of the script configuration page. The counter for the script instance increments every time an initialization error occurs. This counter provides a count from the most recent script reset that was accompanied by a change to the script configuration. Both a script configuration change and a script reset must occur to restart the counter. If the counter continues to increment after you fix the script problem, examine the script again. When the error occurs during initialization, Unified Communications Manager automatically disables the script.</p>
ErrorInternal	<p>This counter indicates the number of internal errors that have occurred while the script executed. Internal errors are extremely rare. If the value in this counter is higher than zero, there is a defect in the system not related to the script content or execution. Collect SDI traces and contact the Technical Assistance Center (TAC).</p>

Display Names	Description
ErrorLoad	<p>This counter indicates the number of times that a script error occurred while the script loaded into memory in Unified Communications Manager.</p> <p>A script can fail to load due to memory issues or syntax errors; check the SIPNormalizationScriptError alarm for details such as the script line number where the syntax error exists, check the script for syntax errors, upload a corrected script if needed and reset the script by clicking the Reset button at the top of the script configuration page.</p> <p>The counter for the script instance increments for each load error since the last time the script was reset following a change to the script configuration. Both a script configuration change and a script reset must have occurred to restart the counter. If the counter continues to increment after you believe you have fixed the script problem, examine the script again.</p>
ErrorResource	<p>This counter indicates whether or not the script encountered a resource error.</p> <p>There are two kinds of resource errors: exceeding the value configured in the Memory Threshold field or exceeding the value configured in the Lua Instruction Threshold field. Both fields display in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration. If either condition occurs, Unified Communications Manager immediately closes the script and issues the SIPNormalizationScriptError alarm.</p> <p>If a resource error occurs while the script loads or initializes, the script is disabled. If a resource error occurs during execution, the configured system resource error recovery action is taken as configured in the System Resource Error Recovery Action field on the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration.</p>
MemoryUsage	<p>This counter indicates the amount of memory, in bytes, that the script consumes based on the accumulation for all SIP phones using this script. This counter increases and decreases to match the amount of memory being utilized by the script. The count gets cleared when the script is closed (because a closed script consumes no memory) and restarts when the script is opened (enabled). A high number in this counter could indicate a resource problem. Check the MemoryUsagePercentage counter and check for a SIPNormalizationResourceWarning alarm, which occurs when the resource consumption exceeds an internally set threshold.</p>

Display Names	Description
MemoryUsagePercentage	<p>This counter indicates the percentage of the total amount of memory the script consumes based on the accumulation for all SIP phones using this script.</p> <p>The value in this counter is derived by dividing the value in the MemoryUsage counter by the value in the Memory Threshold field (in the SIP Normalization Script Configuration window) and multiplying that result by 100 to arrive at a percentage value.</p> <p>This counter increases and decreases in accordance with the MemoryUsage counter. This count is cleared when the script is closed (because closed scripts consume no memory) and restarts when the script is opened (enabled). When this counter reaches the internally controlled resource threshold, the SIPNormalizationResourceWarning alarm is issued.</p>
MessageRollback	<p>This counter indicates the number of times a message was not modified by the script due to an error while the script executes. This can occur only if the value in the Script Execution Error Recovery Action field is set to Message Rollback Only.</p> <p>When an execution error occurs, Unified Communications Manager automatically restores the message to the original contents prior to applying additional error-handling actions. If error handling specifies Rollback Only, no further action is taken beyond rolling back to the original message prior to the normalization attempt. For the other possible Script Execution Error Recovery Action settings, the action specified occurs after the message restores to the original contents.</p>
msgAddContentBody	<p>This counter indicates the number of times that the script adds a content body to the message. Assuming your message variable name is “msg”, if you are using the msg:addContentBody API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.</p>
msgAddHeader	<p>This counter indicates the number of times that the script adds a SIP header to the message. Assuming your message variable name is “msg”, if you are using the msg:addHeader API in the script, this counter increases each time this API executes successfully. If the counter behavior is unexpected, examine the script logic for errors.</p>
msgAddHeaderUriParameter	<p>This counter indicates the number of times that the script adds a SIP header URI parameter to a SIP header in the message. Assuming your message variable name is “msg”, if you are using the msg:addHeaderUriParameter API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.</p>
msgAddHeaderValueParameter	<p>This counter indicates the number of times that the script adds a SIP header value parameter to a SIP header in the message. Assuming your message variable name is “msg”, if you are using the msg:addHeaderValueParameter API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.</p>

Display Names	Description
msgApplyNumberMask	This counter indicates the number of times that the script applies a number mask to a SIP header in the message. Assuming your message variable name is “msg”, if you are using the msg:applyNumberMask API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgBlock	This counter indicates the number of times that the script blocks a message. Assuming your message variable name is “msg”, if you are using the msg:block API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgConvertDiversiontoHI	This counter indicates the number of times that the script converts Diversion headers into History-Info headers in the message. Assuming your message variable name is “msg”, if you are using the msg:convertDiversionToHI API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgConvertHItoDiversion	This counter indicates the number of times that the script converts History-Info headers into Diversion headers in the message. Assuming your message variable name is “msg”, if you are using the msg:convertHItoDiversion API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgModifyHeader	This counter indicates the number of times that the script modifies a SIP header in the message. Assuming your message variable name is “msg”, if you are using the msg:modifyHeader API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgRemoveContentBody	This counter indicates the number of times that the script removes a content body from the message. Assuming your message variable name is “msg”, if you are using the msg:removeContentBody API in the script, this counter increases each time this API successfully executed. If the counter behavior is unexpected, examine the script logic for errors.
msgRemoveHeader	This counter indicates the number of times that the script removes a SIP header from the message. Assuming your message variable name is “msg”, if you are using the msg:removeHeader API in the script, this counter increases each time this API is successfully executed. If the counter behavior is unexpected, examine the script logic for errors.
msgRemoveHeaderValue	This counter indicates the number of times that the script removes a SIP header value from the message. Assuming your message variable name is “msg”, if you are using the msg:removeHeaderValue API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.



Display Names	Description
msgRemoveUnreliableSdp	This counter indicates the number of times that the script removes SDP body from an unreliable 18x SIP message. Assuming your message variable name is “msg”, if you are using the msg:removeUnreliableSDP API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgSetRequestUri	This counter indicates the number of times that the script modifies the request URI in the message. Assuming your message variable name is “msg”, if you are using the msg:setRequestUri API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgSetResponseCode	This counter indicates the number of times that the script modifies the response code or response phrase in the message. Assuming your message variable name is “msg”, if you are using the msg:setResponseCode API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
msgSetSdp	This counter indicates the number of times that the script sets the SDP in the message. Assuming your message variable name is “msg”, if you are using the msg:setSdp API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
ptAddContentBody	This counter indicates the number of times that the script adds a content body to the PassThrough object. Assuming your PassThrough object name is “pt”, if you are using the pt:addContentBody API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
ptAddHeader	This counter indicates the number of times that the script adds a SIP header to the PassThrough object. Assuming your PassThrough object name is “pt”, if you are using the pt:addHeader API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
ptAddHeaderUriParameter	This counter indicates the number of times that the script adds a SIP header URI parameter to the PassThrough object. Assuming your PassThrough object name is “pt”, if you are using the pt:addHeaderUriParameter API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.
ptAddHeaderValueParameter	This counter indicates the number of times that the script adds a SIP header value parameter to the PassThrough object. Assuming your PassThrough object name is “pt”, if you are using the pt:addHeaderValueParameter API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.

Display Names	Description
ptAddRequestUriParameter	<p>This counter indicates the number of times that the script adds a request URI parameter to the PassThrough object. Assuming your PassThrough object name is “pt”, if you are using the pt:addRequestUriParameter API in the script, this counter increases each time this API successfully executes. If the counter behavior is unexpected, examine the script logic for errors.</p>
ScriptActive	<p>This counter indicates whether the script is currently active (running on SIP phones). A value of 0 indicates that the script is closed (disabled). A value of 1 indicates that the script is open and operational.</p> <p>To open the script that should be running, check for any alarms that might indicate why the script is not open, correct any errors, upload a new script if necessary, and reset the script.</p>
ScriptClosed	<p>This counter indicates the number of times that Unified Communications Manager closes the script. When the script closes on one SIP phone, it can still be enabled on other SIP phones. Unified Communications Manager closes the script because the last SIP phone using this script was either reset manually, reset automatically (due to an error), or deleted. This count restarts when the script resets following a change to the script configuration and when Cisco CallManager restarts.</p>
ScriptDisabledAutomatically	<p>This counter indicates the number of times that the system automatically disables the script. The values that are specified in the Execution Error Recovery Action or System Resource Error Recovery Action field in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration determine whether the script is disabled. Automatic script disable occurs if either of these fields are set to Disable Script. The script also gets disabled as a result of script error conditions that are encountered during loading and initialization.</p> <p>This counter provides a count from the most recent manual device reset that involves a script configuration change (a device reset alone does not restart the count; the script must also have changed before the reset occurs). The counter increments each time Unified Communications Manager automatically disables a script due because of script errors.</p> <p>If the number in this counter is higher than expected, perform the following steps:</p> <ul style="list-style-type: none"> <li>• Check for a SIPNormalizationScriptError alarm and SIPNormalizationAutoResetDisabled alarm.</li> <li>• Check for any resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li> <li>• Check for any unexpected SIP normalization events in the SDI trace files.</li> </ul>

Display Names	Description
ScriptOpened	<p>This counter indicates the number of times that Unified Communications Manager attempts to open the script. For the script to open, it must load into memory in Unified Communications Manager, initialize, and be operational. A number greater than 1 in this counter means that Unified Communications Manager has made more than one attempt to open this script either for an expected reason or due to an error during loading or initialization. The error can occur due to execution errors or resource errors or invalid syntax in the script. Expect this counter to be greater than 1 if the ScriptResetAutomatically counter increments.</p> <p>If the number in this counter is higher than expected, perform the following steps:</p> <ul style="list-style-type: none"> <li>• Check for alarms such as the SIPNormalizationScriptClosed, SIPNormalizationScriptError, or SIPNormalizationResourceWarning.</li> <li>• Check resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li> <li>• Check for any unexpected SIP normalization events in the SDI trace files.</li> </ul> <p>This count restarts when the script resets after a script configuration change and when Unified Communications Manager restarts.</p>
ScriptResetAutomatically	<p>This counter indicates the number of times that the system automatically resets the script. The script resets based on the values that are specified in the Script Execution Error Recovery Action and System Resource Error Recovery Action fields in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration. Automatic resets can occur if the value in either of these fields is Reset Script.</p> <p>This counter specifies the number of times that the system automatically resets the script following the last time the script is reset after a change to the script configuration. The counter increments each time Unified Communications Manager automatically resets a script because of script errors.</p> <p>If the number in this counter is higher than expected, perform the following steps:</p> <ul style="list-style-type: none"> <li>• Check for a SIPNormalizationScriptError alarm.</li> <li>• Check for any resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li> <li>• Check for any unexpected SIP normalization events in the SDI trace files.</li> </ul>
ScriptResetManually	<p>This counter indicates the number of times that the script manually resets in Cisco Unified Communications Manager Administration or by other methods, such as AXL, or a reset on the last SIP phone that used the script. This counter increments when a script is reset due to configuration changes. This counter restarts when the script is deleted, or when Cisco CallManager restarts.</p>

## Cisco SIP Normalization

The Cisco SIP Normalization performance object contains counters that allow you to monitor aspects of the normalization script, including initialization errors, runtime errors, and script status. Each device that has an associated script causes a new instance of these counters to be created. The following table contains Unified Communications Manager the Cisco SIP Normalization counters.

**Table 51: Cisco SIP Normalization**

Display Name	Description
DeviceResetAutomatically	This counter indicates the number of times that Unified Communications Manager automatically resets the device (SIP trunk). The device reset is based on the values that are specified in the Script Execution Error Recovery Action and System Resource Error Recovery Action fields on the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration. When the device (SIP trunk) is reset due to script errors, the counter value increments. This count restarts when the device is reset manually.
DeviceResetManually	This counter indicates the number of times that the device (SIP trunk) is reset manually in Cisco Unified Communications Manager Administration or by other methods, such as AXL. When the device associated with a script is reset due to configuration changes, the counter value increments.  The counter restarts in the following situations: <ul style="list-style-type: none"> <li>• The SIP trunk is deleted.</li> <li>• The script on the trunk gets changed or deleted.</li> <li>• Unified Communications Manager restarts.</li> </ul>

Display Name	Description
ErrorExecution	<p>This counter represents the number of execution errors that occurred while the script executed. Execution errors can occur while a message handler executes. Execution errors can be caused by resource errors, an argument mismatch in a function call, and so on.</p> <p>When an execution error occurs, Unified Communications Manager performs the following actions:</p> <ul style="list-style-type: none"><li>• Automatically restores the message to the original content before applying additional error handling actions.</li><li>• Increments the value of the counter.</li><li>• Takes appropriate action based on the configuration of the Script Execution Error Recovery Action and System Resource Error Recovery Action fields in Cisco Unified Communications Manager Administration.</li></ul> <p>Check the SIPNormalizationScriptError alarm for details, including the line number in the script that failed. Correct the script problem, upload the corrected script as needed, and reset the trunk. This counter increments every time an execution error occurs. This counter provides a count from the most recent trunk reset that involved a script configuration change. (A device reset alone does not restart the count; the script configuration must also change before the reset occurs.)</p> <p>If the counter continues to increment after you fix the script problem, examine the script again.</p>

Display Name	Description
ErrorInit	<p>This counter represents the number of times a script error occurred after the script successfully loaded into memory, but failed to initialize in Unified Communications Manager. A script can fail to initialize due to resource errors, an argument mismatch in a function call, the expected table was not returned, and so on.</p> <p>Check the SIPNormalizationScriptError alarm for details, including the line number in the script that failed. Correct the script problem, upload the corrected script as needed, and reset the trunk. This counter increments every time an initialization error occurs. This counter provides a count from the most recent trunk reset that was accompanied by a script configuration change. (A device reset alone does not restart the count; the script configuration must also change before the reset occurs.) If the counter continues to increment after you fix the script problem, examine the script again. When the error occurs during initialization, Unified Communications Manager automatically disables the script.</p>
ErrorInternal	<p>This counter indicates the number of internal errors that occurred while the script executed. Internal errors are very rare. If the value in this counter is higher than zero, a defect exists in the system that is not related to the script content or execution. Collect SDI traces and contact the Technical Assistance Center (TAC).</p>
ErrorLoad	<p>This counter represents the number of times a script error occurred when the script loaded into memory in Unified Communications Manager. A script can fail to load due to memory issues or syntax errors.</p> <p>Check the SIPNormalizationScriptError alarm for details. Check the script syntax for errors, upload the corrected script as needed, and reset the trunk. This counter increments every time a load error occurs. This counter provides a count from the most recent trunk reset that was accompanied by a script configuration change. (A device reset alone will not restart the count; the script configuration must also change before the reset occurs.) If the counter continues to increment even after you fix the script problem, examine the script again.</p>

Display Name	Description
ErrorResource	<p>This counter indicates whether the script encountered a resource error.</p> <p>Two kinds of resource errors exist: exceeding the value in the Memory Threshold field and exceeding the value in the Lua Instruction Threshold field. (Both fields display on the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration.) If either condition occurs, Unified Communications Manager immediately closes the script and issues the SIPNormalizationScriptError alarm.</p> <p>If a resource error occurs while the script loads or initializes, the script is disabled. If a resource error occurs during execution, the configured system resource error recovery action is taken. (The setting of the System Resource Error Recovery Action field on the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration defines this action.)</p>
MemoryUsage	<p>This counter specifies the amount of memory, in bytes, that the script consumes. This counter increases and decreases to match the amount of memory that the script uses. This count gets cleared when the script closes (because a closed script does not consume memory) and restarts when the script opens (gets enabled). A high number in this counter indicates a resource problem. Check the MemoryUsagePercentage counter and the SIPNormalizationResourceWarning alarm, which occur when the resource consumption exceeds an internally set threshold.</p>
MemoryUsagePercentage	<p>This counter specifies the percentage of the total amount of memory that the script consumes.</p> <p>The value in this counter is derived by dividing the value in the MemoryUsage counter by the value in the Memory Threshold field (in the SIP Normalization Script Configuration window) and multiplying the result by 100 to arrive at a percentage.</p> <p>This counter increases and decreases in accordance with the MemoryUsage counter. This count gets cleared when the script closes (because closed scripts do not consume memory) and restarts when the script opens (gets enabled). When this counter reaches the internally controlled resource threshold, the SIPNormalizationResourceWarning alarm is issued.</p>

Display Name	Description
MessageRollback	<p>This counter indicates the number of times that the system automatically rolled back a message. The system rolls back the message by using the error handling that is specified in the Script Execution Error Recovery Action field in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration.</p> <p>When an execution error occurs, Unified Communications Manager automatically restores the message to the original content before applying additional error handling actions. If error handling specifies Rollback only, no further action is taken beyond rolling back to the original message before the normalization attempt. For the other possible Script Execution Error Recovery Actions, message rollback always occurs first, followed by the specified action, such as disabling the script, resetting the script automatically, or resetting the trunk automatically.</p>
msgAddContentBody	<p>This counter represents the number of times that the script added a content body to the message. If you are using the msg:addContentBody API in the script, this counter increases each time that the msg:addContentBody API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.</p>
msgAddHeader	<p>This counter represents the number of times that the script added a SIP header to the message. If you are using the msg:addHeader API in the script, this counter increases each time that the msg:addHeader API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.</p>
msgAddHeaderUriParameter	<p>This counter represents the number of times that the script added a SIP header URI parameter to a SIP header in the message. If you are using the msg:addHeaderUriParameter API in the script, this counter increases each time that the msg:addHeaderUriParameter API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.</p>



Display Name	Description
msgAddHeaderValueParameter	This counter represents the number of times that the script added a SIP header value parameter to a SIP header in the message. If you are using the msg:addHeaderValueParameter API in the script, this counter increases each time that the msg:addHeaderValueParameter API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgApplyNumberMask	This counter represents the number of times that the script applied a number mask to a SIP header in the message. If you are using the msg:applyNumberMask API in the script, this counter increases each time that the msg:applyNumberMask API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgBlock	This counter represents the number of times that the script blocked a message. If you are using the msg:block API in the script, this counter increases each time that the msg:block API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgConvertDiversionToHI	This counter represents the number of times that the script converted Diversion headers into History-Info headers in the message. If you are using the msg:convertDiversionToHI API in the script, this counter increases each time that the msg:convertDiversionToHI API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgConvertHIToDiversion	This counter represents the number of times that the script converted Diversion headers into History-Info headers in the message. If you are using the msg:convertDiversionToHI API in the script, this counter increases each time that the msg:convertDiversionToHI API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgModifyHeader	This counter represents the number of times that the script modified a SIP header in the message. If you are using the msg:modifyHeader API in the script, this counter increases each time that the msg:modifyHeader API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.

Display Name	Description
msgRemoveContentBody	This counter represents the number of times that the script removed a content body from the message. If you are using the msg:removeContentBody API in the script, this counter increases each time that the msg:removeContentBody API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgRemoveHeader	This counter represents the number of times that the script removed a SIP header from the message. If you are using the msg:removeHeader API in the script, this counter increases each time that the msg:removeHeader API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgRemoveHeaderValue	This counter represents the number of times that the script removed a SIP header value from the message. If you are using the msg:removeHeaderValue API in the script, this counter increases each time that the msg:removeHeaderValue API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgSetRequestUri	This counter represents the number of times that the script modified the request URI in the message. If you are using the msg:setRequestUri API in the script, this counter increases each time that the msg:setRequestUri API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgSetResponseCode	This counter represents the number of times that the script modified the response code and/or response phrase in the message. If you are using the msg:setResponseCode API in the script, this counter increases each time that the msg:setResponseCode API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
msgSetSdp	This counter represents the number of times that the script set the SDP in the message. If you are using the msg:setSdp API in the script, this counter increases each time that the msg:setSdp API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.

Display Name	Description
ptAddContentBody	This counter represents the number of times that the script added a content body to the PassThrough (pt) object. If you are using the pt:addContentBody API in the script, this counter increases each time that the pt:addContentBody API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
ptAddHeader	This counter represents the number of times that the script added a SIP header to the PassThrough (pt) object. If you are using the pt:addHeader API in the script, this counter increases each time that the pt:addHeader API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
ptAddHeaderUriParameter	This counter represents the number of times that the script added a SIP header URI parameter to the PassThrough (pt) object. If you are using the pt:addHeaderUriParameter API in the script, this counter increases each time that the pt:addHeaderUriParameter API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
ptAddHeaderValueParameter	This counter represents the number of times that the script added a SIP header value parameter to the PassThrough (pt) object. If you are using the pt:addHeaderValueParameter API in the script, this counter increases each time that the pt:addHeaderValueParameter API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.
ptAddRequestUriParameter	This counter represents the number of times that the script added a request URI parameter to the PassThrough (pt) object. If you are using the pt:addRequestUriParameter API in the script, this counter increases each time that the pt:addRequestUriParameter API executes successfully. If the counter behavior is not as expected, examine the script logic for errors.

Display Name	Description
ScriptActive	<p>This counter indicates whether the script is currently active (running on the trunk). The following values display for the counter:</p> <ul style="list-style-type: none"> <li>• 0—Indicates that the script is closed (disabled).</li> <li>• 1—Indicates that the script is open and operational.</li> </ul> <p>To open the script that should be running on this trunk, perform the following actions:</p> <ol style="list-style-type: none"> <li>1. Check for any alarms that might indicate why the script is not open.</li> <li>2. Correct any errors.</li> <li>3. Upload a new script if necessary.</li> <li>4. Reset the trunk.</li> </ol>
ScriptClosed	<p>This counter indicates the number of times that Unified Communications Manager has closed the script.</p> <p>When the script is closed, it is not enabled on this device.</p> <p>Unified Communications Manager closes the script under one of the following conditions:</p> <ul style="list-style-type: none"> <li>• The device was reset manually.</li> <li>• The device was reset automatically (due to an error).</li> <li>• The device was deleted.</li> </ul> <p>This count restarts when the SIP trunk is reset after a change to the script configuration and when Unified Communications Manager restarts.</p>

Display Name	Description
ScriptDisabledAutomatically	<p>This counter indicates the number of times that the system automatically disabled the script. The values that are specified in the Script Execution Error Recovery Action and System Resource Error Recovery Action fields in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration determine whether the script is disabled. The script also gets disabled as a result of script error conditions that are encountered during loading and initialization. This counter provides a count from the most recent manual device reset that involved a script configuration change (a device reset alone does not restart the count; the script must also have changed before the reset occurs). This counter increments every time Unified Communications Manager automatically disables a script due to script errors.</p> <p>If the number in this counter is higher than expected, perform the following actions:</p> <ul style="list-style-type: none"><li>• Check for SIPNormalizationScriptError alarm and SIPNormalizationAutoResetDisabled alarm.</li><li>• Check for any resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li><li>• Check for any unexpected SIP normalization events in the SDI trace files.</li></ul>

Display Name	Description
ScriptOpened	<p>This counter indicates the number of times that the Unified Communications Manager attempted to open the script. For the a script to open, it must load into memory in Unified Communications Manager, initialize, and be operational. A number greater than one in this counter means that Unified Communications Manager has made more than one attempt to open the script on this SIP trunk, either for an expected reason or due to an error during loading or initialization. The error can occur due to execution errors or resource errors or invalid syntax in the script. Expect this counter to be greater than one if any of these counters increment: DeviceResetManually, DeviceResetAutomatically, or ScriptResetAutomatically. The DeviceResetManually counter increments when an expected event, such as a maintenance window on the SIP trunk, causes the script to close.</p> <p>If the number in this counter is high for an unexpected reason, perform the following actions:</p> <ul style="list-style-type: none"> <li>• Check for alarms, such as the SIPNormalizationScriptClosed, SIPNormalizationScriptError, or SIPNormalizationResourceWarning.</li> <li>• Check resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li> <li>• Check for any unexpected SIP normalization events in the SDI trace files.</li> </ul> <p>This count restarts when the SIP trunk resets after a script configuration change and when Unified Communications Manager restarts.</p>

Display Name	Description
ScriptResetAutomatically	<p>This counter indicates the number of times that the system automatically reset the script. The script resets based on the values that are specified in the Script Execution Error Recovery Action and System Resource Error Recovery Action fields in the SIP Normalization Script Configuration window in Cisco Unified Communications Manager Administration. This counter specifies a count of the number of automatic script resets after the last manual device reset; this counter increments every time the Unified Communications Manager automatically resets a script due to script errors.</p> <p>If the number in this counter is higher than expected, perform the following actions:</p> <ul style="list-style-type: none"> <li>• Check for a SIPNormalizationScriptError alarm.</li> <li>• Check for any resource-related alarms and counters in RTMT to determine whether a resource issue is occurring.</li> <li>• Check for any unexpected SIP normalization events in the SDI trace files.</li> </ul>

## Cisco SIP Stack

The Cisco SIP Stack object provides information about Session Initiation Protocol (SIP) stack statistics that are generated or used by SIP devices such as SIP Proxy, SIP Redirect Server, SIP Registrar, and SIP User Agent. The following table contains information on Cisco SIP Stack counters.

**Table 52: Cisco SIP Stack**

Counters	Counter Description
AckIns	This counter represents the total number of ACK requests that the SIP device received.
AckOuts	This counter represents the total number of ACK requests that the SIP device sent.
ByeIns	This counter represents the total number of BYE requests that the SIP device received. This number includes retransmission.
ByeOuts	This counter represents the total number of BYE requests that the SIP device sent. This number includes retransmission.
CancelIns	This counter represents the total number of CANCEL requests that the SIP device received. This number includes retransmission.

<b>Counters</b>	<b>Counter Description</b>
CancelOuts	This counter represents the total number of CANCEL requests that the SIP device sent. This number includes retransmission.
CCBsAllocated	This counter represents the number of Call Control Blocks (CCB) that are currently in use by the SIP stack. Each active SIP dialog uses one CCB.
GlobalFailedClassIns	This counter represents the total number of 6xx class SIP responses that the SIP device has received. This number includes retransmission. This class of responses indicates that a SIP device, that is providing a client function, received a failure response message. Generally, the responses indicate that a server had definitive information on a particular called party and not just the particular instance in the Request-URI.
GlobalFailedClassOuts	This counter represents the total number of 6xx class SIP responses that the SIP device sent. This number includes retransmission. This class of responses indicates that a SIP device, that is providing a server function, received a failure response message. Generally, the responses indicate that a server had definitive information on a particular called party and not just the particular instance in the Request-URI.
InfoClassIns	This counter represents the total number of 1xx class SIP responses that the SIP device received. This includes retransmission. This class of responses provides information on the progress of a SIP request.
InfoClassOuts	This counter represents the total number of 1xx class SIP responses that the SIP device sent. This includes retransmission. This class of responses provides information on the progress of processing a SIP request.
InfoIns	This counter represents the total number of INFO requests that the SIP device has received. This number includes retransmission.
InfoOuts	This counter represents the total number of INFO requests that the SIP device has sent. This number includes retransmission.
InviteIns	This counter represents the total number of INVITE requests that the SIP device received. This number includes retransmission.



<b>Counters</b>	<b>Counter Description</b>
InviteOuts	This counter represents the total number of INVITE requests that the SIP device has sent. This number includes retransmission.
NotifyIns	This counter represents the total number of NOTIFY requests that the SIP device has received. This number includes retransmission.
NotifyOuts	This counter represents the total number of NOTIFY requests that the SIP device has sent. This number includes retransmission.
OptionsIns	This counter represents the total number of OPTIONS requests that the SIP device received. This number includes retransmission.
OptionsOuts	This counter represents the total number of OPTIONS requests that the SIP device has sent. This number includes retransmission.
PRackIns	This counter represents the total number of PRACK requests that the SIP device has received. This number includes retransmission.
PRackOuts	This counter represents the total number of PRACK requests that the SIP device has sent. This number includes retransmission.
PublishIns	This counter represents the total number of PUBLISH requests that the SIP device received. This number includes retransmissions.
PublishOuts	This counter represents the total number of PUBLISH requests that the SIP device has sent. This number includes retransmission
RedirClassIns	This counter represents the total number of 3xx class SIP responses that the SIP device has received. This number includes retransmission. This class of responses provides information about redirections to addresses where the callee may be reachable.
RedirClassOuts	This counter represents the total number of 3xx class SIP responses that the SIP device has sent. This number includes retransmission. This class of responses provides information about redirections to addresses where the callee may be reachable.
ReferIns	This counter represents the total number of REFER requests that the SIP device has received. This number includes retransmission.

<b>Counters</b>	<b>Counter Description</b>
ReferOuts	This counter represents the total number of REFER requests that the SIP device has sent. This number includes retransmission.
RegisterIns	This counter represents the total number of REGISTER requests that the SIP device has received. This number includes retransmission.
RegisterOuts	This counter represents the total number of REGISTER requests that the SIP device has sent. This number includes retransmission.
RequestsFailedClassIns	This counter represents the total number of 4xx class SIP responses that the SIP device has received. This number includes retransmission. This class of responses indicates a request failure by a SIP device that is providing a client function.
RequestsFailedClassOuts	This counter represents the total number of 4xx class SIP responses that the SIP device has sent. This number includes retransmission. This class of responses indicates a request failure by a SIP device that is providing a server function.
RetryByes	This counter represents the total number of BYE retries that the SIP device has sent. To determine the number of first BYE attempts, subtract the value of this counter from the value of the sipStatsByeOuts counter.
RetryCancels	This counter represents the total number of CANCEL retries that the SIP device has sent. To determine the number of first CANCEL attempts, subtract the value of this counter from the value of the sipStatsCancelOuts counter.
RetryInfo	This counter represents the total number of INFO retries that the SIP device has sent. To determine the number of first INFO attempts, subtract the value of this counter from the value of the sipStatsInfoOuts counter.
RetryInvites	This counter represents the total number of INVITE retries that the SIP device has sent. To determine the number of first INVITE attempts, subtract the value of this counter from the value of the sipStatsInviteOuts counter.

Counters	Counter Description
RetryNotify	This counter represents the total number of NOTIFY retries that the SIP device has sent. To determine the number of first NOTIFY attempts, subtract the value of this counter from the value of the sipStatsNotifyOuts counter.
RetryPRACK	This counter represents the total number of PRACK retries that the SIP device has sent. To determine the number of first PRACK attempts, subtract the value of this counter from the value of the sipStatsPRACKOuts counter.
RetryPublish	This counter represents the total number of PUBLISH retries that the SIP device has been sent. To determine the number of first PUBLISHs attempts, subtract the value of this counter from the value of the sipStatsPublishOuts counter.
RetryRefer	This counter represents the total number of REFER retries that the SIP device has sent. To determine the number of first REFER attempts, subtract the value of this counter from the value of the sipStatsReferOuts counter.
RetryRegisters	This counter represents the total number of REGISTER retries that the SIP device has sent. To determine the number of first REGISTER attempts, subtract the value of this counter from the value of the sipStatsRegisterOuts counter.
RetryRel1xx	This counter represents the total number of Reliable 1xx retries that the SIP device has sent.
RetryRequestsOut	This counter represents the total number of Request retries that the SIP device has sent.
RetryResponsesFinal	This counter represents the total number of Final Response retries that the SIP device has sent.
RetryResponsesNonFinal	This counter represents the total number of non-Final Response retries that the SIP device has sent.
RetrySubscribe	This counter represents the total number of SUBSCRIBE retries that the SIP device has sent. To determine the number of first SUBSCRIBE attempts, subtract the value of this counter from the value of the sipStatsSubscribeOuts counter.

Counters	Counter Description
RetryUpdate	This counter represents the total number of UPDATE retries that the SIP device has sent. To determine the number of first UPDATE attempts, subtract the value of this counter from the value of the sipStatsUpdateOuts counter.
SCBsAllocated	This counter represents the number of Subscription Control Blocks (SCB) that are currently in use by the SIP stack. Each subscription uses one SCB.
ServerFailedClassIns	This counter represents the total number of 5xx class SIP responses that the SIP device has received. This number includes retransmission. This class of responses indicates that failure responses were received by a SIP device that is providing a client function.
ServerFailedClassOuts	This counter represents the total number of 5xx class SIP responses that the SIP device has sent. This number includes retransmission. This class of responses indicates that failure responses were received by a SIP device that is providing a server function.
SIPGenericCounter1	Do not use this counter unless directed to do so by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
SIPGenericCounter2	Do not use this counter unless directed to do so by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
SIPGenericCounter3	Do not use this counter unless directed to do so by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
SIPGenericCounter4	Do not use this counter unless directed to do so by a Cisco Engineering Special build. Cisco uses information in this counter for diagnostic purposes.
SIPHandlerSDLQueueSignalsPresent	This counter represents the number of SDL signals that are currently on the four SDL priority queues of the SIPHandler component. The SIPHandler component contains the SIP stack.

Counters	Counter Description
StatusCode1xxIns	<p>This counter represents the total number of 1xx response messages, including retransmission, that the SIP device has received. This count includes the following 1xx responses:</p> <ul style="list-style-type: none"> <li>• 100 Trying</li> <li>• 180 Ringing</li> <li>• 181 Call is being forwarded</li> <li>• 182 Queued</li> <li>• 183 Session Progress</li> </ul>
StatusCode1xxOuts	<p>This counter represents the total number of 1xx response messages, including retransmission, that the SIP device has sent. This count includes the following 1xx responses:</p> <ul style="list-style-type: none"> <li>• 100 Trying</li> <li>• 180 Ringing</li> <li>• 181 Call is being forwarded</li> <li>• 182 Queued</li> <li>• 183 Session Progress</li> </ul>
StatusCode2xxIns	<p>This counter represents the total number of 2xx response messages, including retransmission, that the SIP device has received. This count includes the following 2xx responses:</p> <ul style="list-style-type: none"> <li>• 200 OK</li> <li>• 202 Success Accepted</li> </ul>
StatusCode2xxOuts	<p>This counter represents the total number of 2xx response messages, including retransmission, that the SIP device has sent. This count includes the following 2xx responses:</p> <ul style="list-style-type: none"> <li>• 200 OK</li> <li>• 202 Success Accepted</li> </ul>
StatusCode3xxins	<p>This counter represents the total number of 3xx response messages, including retransmission, that the SIP device has received. This count includes the following 3xx responses:</p> <ul style="list-style-type: none"> <li>• 300 Multiple Choices</li> <li>• 301 Moved Permanently</li> <li>• 302 Moved Temporarily</li> <li>• 303 Incompatible Bandwidth Units</li> <li>• 305 Use Proxy</li> <li>• 380 Alternative Service</li> </ul>

Counters	Counter Description
StatusCode302Outs	This counter represents the total number of 302 Moved Temporarily response messages, including retransmission, that the SIP device has sent.
StatusCode4xxIns	<p>This counter represents the total number of 4xx response messages, including retransmission, that the SIP device has received. This count includes the following 4xx responses:</p> <ul style="list-style-type: none"> <li>• 400 Bad Request</li> <li>• 401 Unauthorized</li> <li>• 402 Payment Required</li> <li>• 403 Forbidden</li> <li>• 404 Not Found</li> <li>• 405 Method Not Allowed</li> <li>• 406 Not Acceptable</li> <li>• 407 Proxy Authentication Required</li> <li>• 408 Request Timeout</li> <li>• 409 Conflict</li> <li>• 410 Gone</li> <li>• 413 Request Entity Too Large</li> <li>• 414 Request-URI Too Long</li> <li>• 415 Unsupported Media Type</li> <li>• 416 Unsupported URI Scheme</li> <li>• 417 Unknown Resource Priority</li> <li>• 420 Bad Extension</li> <li>• 422 Session Expires Value Too Small</li> <li>• 423 Interval Too Brief</li> <li>• 480 Temporarily Unavailable</li> <li>• 481 Call/Transaction Does Not Exist</li> <li>• 482 Loop Detected</li> <li>• 483 Too Many Hops</li> <li>• 484 Address Incomplete</li> <li>• 485 Ambiguous</li> <li>• 486 Busy Here</li> <li>• 487 Request Terminated</li> <li>• 488 Not Acceptable Here</li> <li>• 489 Bad Subscription Event</li> <li>• 491 Request Pending</li> </ul>

Counters	Counter Description
StatusCode4xxOuts	<p>This counter represents the total number of 4xx response messages, including retransmission, that the SIP device has sent. This count includes the following 4xx responses:</p> <ul style="list-style-type: none"><li>• 400 Bad Request</li><li>• 401 Unauthorized</li><li>• 402 Payment Required</li><li>• 403 Forbidden</li><li>• 404 Not Found</li><li>• 405 Method Not Allowed</li><li>• 406 Not Acceptable</li><li>• 407 Proxy Authentication Required</li><li>• 408 Request Timeout</li><li>• 409 Conflict</li><li>• 410 Gone</li><li>• 413 Request Entity Too Large</li><li>• 414 Request-URI Too Long</li><li>• 415 Unsupported Media Type</li><li>• 416 Unsupported URI Scheme</li><li>• 417 Unknown Resource Priority</li><li>• 420 Bad Extension</li><li>• 422 Session Expires Value Too Small</li><li>• 423 Interval Too Brief</li><li>• 480 Temporarily Unavailable</li><li>• 481 Call/Transaction Does Not Exist</li><li>• 482 Loop Detected</li><li>• 483 Too Many Hops</li><li>• 484 Address Incomplete</li><li>• 485 Ambiguous</li><li>• 486 Busy Here</li><li>• 487 Request Terminated</li><li>• 488 Not Acceptable Here</li><li>• 489 Bad Subscription Event</li><li>• 491 Request Pending</li></ul>

Counters	Counter Description
StatusCode5xxIns	<p>This counter represents the total number of 5xx response messages, including retransmission, that the SIP device has received. This count includes the following 5xx responses:</p> <ul style="list-style-type: none"> <li>• 500 Server Internal Error</li> <li>• 501 Not Implemented</li> <li>• 502 Bad Gateway</li> <li>• 503 Service Unavailable</li> <li>• 504 Server Timeout</li> <li>• 505 Version Not Supported</li> <li>• 580 Precondition Failed</li> </ul>
StatusCode5xxOuts	<p>This counter represents the total number of 5xx response messages, including retransmission, that the SIP device has sent. This count includes the following 5xx responses:</p> <ul style="list-style-type: none"> <li>• 500 Server Internal Error</li> <li>• 501 Not Implemented</li> <li>• 502 Bad Gateway</li> <li>• 503 Service Unavailable</li> <li>• 504 Server Timeout</li> <li>• 505 Version Not Supported</li> <li>• 580 Precondition Failed</li> </ul>
StatusCode6xxIns	<p>This counter represents the total number of 6xx response messages, including retransmission, that the SIP device has received. This count includes the following 6xx responses:</p> <ul style="list-style-type: none"> <li>• 600 Busy Everywhere</li> <li>• 603 Decline</li> <li>• 604 Does Not Exist Anywhere</li> <li>• 606 Not Acceptable</li> </ul>
StatusCode6xxOuts	<p>This counter represents the total number of 6xx response messages, including retransmission, that the SIP device has sent. This count includes the following 6xx responses:</p> <ul style="list-style-type: none"> <li>• 600 Busy Everywhere</li> <li>• 603 Decline</li> <li>• 604 Does Not Exist Anywhere</li> <li>• 606 Not Acceptable</li> </ul>
SubscribeIns	<p>This counter represents the total number of SUBSCRIBE requests that the SIP device has received. This number includes retransmission.</p>



Counters	Counter Description
SubscribeOuts	This counter represents the total number of SUBSCRIBE requests that the SIP device has sent. This number includes retransmission.
SuccessClassIns	This counter represents the total number of 2xx class SIP responses that the SIP device has received. This includes retransmission. This class of responses provides information on the successful completion of a SIP request.
SuccessClassOuts	This counter represents the total number of 2xx class SIP responses that the SIP device has sent. This includes retransmission. This class of responses provides information on the successful completion of a SIP request.
SummaryRequestsIn	This counter represents the total number of SIP request messages that have been received by the SIP device. This number includes retransmissions.
SummaryRequestsOut	This counter represents the total number of SIP request messages that the device sent. This number includes messages that originate on the device and messages that are being relayed by the device. When a particular message gets sent more than once, each transmission gets counted separately; for example, a message that is re-sent as a retransmission or as a result of forking.
SummaryResponsesIn	This counter represents the total number of SIP response messages that the SIP device received. This number includes retransmission.
SummaryResponsesOut	This counter represents the total number of SIP response messages that the SIP device sent (originated and relayed). This number includes retransmission.
UpdateIns	This counter represents the total number of UPDATE requests that the SIP device has received. This number includes retransmission.
UpdateOuts	This counter represents the total number of UPDATE requests that the SIP device has sent. This number includes retransmission.

## Cisco SIP Station

The Cisco SIP Station object provides information about SIP line-side devices. The following table contains information about the Cisco SIP Station counters.

Table 53: Cisco SIP Station

Counters	Counter Description
ConfigMismatchesPersistent	This counter represents the number of times that a phone that is running SIP was persistently unable to register due to a configuration version mismatch between the TFTP server and Unified Communications Manager since the last restart of the Unified Communications Manager. This counter increments each time that Unified Communications Manager cannot resolve the mismatch and manual intervention is required (such as a configuration update or device reset).
ConfigMismatchesTemporary	This counter represents the number of times that a phone that is running SIP was temporarily unable to register due to a configuration version mismatch between the TFTP server and Unified Communications Manager since the last restart of the Cisco CallManager Service. This counter increments each time Unified Communications Manager is able to resolve the mismatch automatically.
DBTimeouts	This counter represents the number of new registrations that failed because a timeout occurred while the system was attempting to retrieve the device configuration from the database.
NewRegAccepted	This counter represents the total number of new REGISTRATION requests that have been removed from the NewRegistration queue and processed since the last restart of the Cisco CallManager Service.
NewRegQueueSize	This counter represents the number of REGISTRATION requests that are currently on the NewRegistration queue. The system places REGISTRATION requests that are received from devices that are not currently registered on this queue before they are processed.
NewRegRejected	This counter represents the total number of new REGISTRATION requests that were rejected with a 486 Busy Here response and not placed on the NewRegistration queue since the last restart of the Cisco CallManager Service. The system rejects REGISTRATION requests if the NewRegistration queue exceeds a programmed size.

Counters	Counter Description
TokensAccepted	This counter represents the total number of token requests that have been granted since the last Unified Communications Manager restart. Unified Communications Manager grants tokens as long as the number of outstanding tokens remains below the number that is specified in the Cisco CallManager service parameter Maximum Phone Fallback Queue Depth.
TokensOutstanding	This counter represents the number of devices that have been granted a token but have not yet registered. The system requires that devices that are reconnecting to a higher priority Unified Communications Manager server be granted a token before registering. Tokens protect Unified Communications Manager from being overloaded with registration requests when it comes back online after a failover situation.
TokensRejected	This counter represents the total number of token requests that have been rejected since the last Unified Communications Manager restart. Unified Communications Manager will reject token request if the number of outstanding tokens is greater than the number that is specified in the Cisco CallManager service parameter Maximum Phone Fallback Queue Depth.

## Cisco SW Conf Bridge Device

The Cisco SW Conference Bridge Device object provides information about registered Cisco software conference bridge devices. The following table contains information on the Cisco software conference bridge device counters.

**Table 54: Cisco SW Conf Bridge Device**

Counters	Counter Description
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 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. One resource represents one stream.

Counters	Counter Description
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. One resource represents one stream.
ResourceTotal	This counter represents the total number of conference resources that a SW conference device provides. One resource represents one stream. 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 Telepresence MCU Conference Bridge Device

The Cisco Telepresence MCU Conference Bridge Device provides information about registered MCU conference bridge devices. The following table contains information about the Cisco Telepresence MCU Conference Bridge Device counters.

*Table 55: Cisco Telepresence MCU Conference Bridge Device*

Counters	Counter Description
ConferencesActive	This counter represents the total number of active conferences on all Cisco Telepresence MCU conference bridge devices that are registered with Unified Communications Manager.
ConferencesCompleted	This counter represents the total number of conferences that used a Cisco Telepresence MCU conference bridge allocated from Unified Communications Manager and completed, implying that the conference bridge was allocated and released. A conference is activated when the first call is connected to the bridge. The conference is completed when the last call is disconnected from the bridge.

Counters	Counter Description
HttpConnectionErrors	This counter represents the total number of times Unified Communications Manager attempted to create HTTP connections to Cisco Telepresence MCU conference bridge device, and failed due to connection errors on the Cisco Telepresence MCU conference bridge side.
HttpNon200OKResponse	This counter represents the total number of times Unified Communications Manager received a non 200 OK HTTP Response from Cisco Telepresence MCU conference bridge, for any HTTP query sent.
OutOfResources	This counter represents the total number of times Unified Communications Manager attempted to allocate a conference resource from Cisco Telepresence MCU conference bridge device and failed. For example, the attempt to allocate a conference resource fails, if all the resources are already in use.

## Cisco TFTP Server

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

**Table 56: Cisco TFTP Server**

Counters	Counter Description
BuildAbortCount	This counter represents the number of times that the build process aborted when it received a Build all request. This counter increases when building of device/unit/softkey/dial rules gets aborted as a result of group level change notifications.
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.

Counters	Counter Description
BuildDeviceCount	<p>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.</p> <p><b>Note</b> For 11.5 and above, you can build the configuration files and serve instead of caching.</p> <p>When a build happens, BuildDeviceCount increments. When there is request from the phone, counter increases and never decreases. TFTP stable monitoring is not required.</p>
BuildDialruleCount	<p>This counter represents the number of dial rules that were processed in the last build of the configuration files. This counter also updates while processing dial rule change notifications. The counter increases when a new dial rule is added and decreases when an existing dial rule is deleted.</p>
BuildDuration	<p>This counter represents the time in seconds that it took to build the last configuration files.</p>
BuildSignCount	<p>This counter represents the number of security-enabled phone devices for which the configuration file was digitally signed with the Unified Communications Manager server key in the last build of all the configuration files. This counter also updates while processing security-enabled phone device change notifications.</p>
BuildSoftKeyCount	<p>This counter represents the number of softkeys that were processed in the last build of the configuration files. This counter increments when a new softkey is added and decrements when an existing softkey is deleted.</p>
BuildUnitCount	<p>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.</p>

Counters	Counter Description
ChangeNotifications	This counter represents the total number of all the Unified Communications Manager database change notifications that the TFTP server received. Each time that a device configuration is updated in Unified Communications Manager, 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.
DialruleChangeNotifications	This counter represents the number of times that the TFTP server received database change notification to create, update, or delete configuration files for dial rules.
EncryptCount	This counter represents the number of configuration files that were encrypted. This counter gets updated each time a configuration file is successfully encrypted
GKFoundCount	This counter represents the number of GK files that were found in the cache. This counter gets updated each time a GK file is found in the cache
GKNotFoundCount	This counter represents the number of GK files that were not found in the cache. This counter gets updated each time a request to get a GK file results in the cache not finding it
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.
HttpConnectRequests	This counter represents the number of clients that are currently requesting the HTTP GET file request.
HttpRequests	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 HTTP server handled. This counter represents the sum total of the following counters since the HTTP service started: RequestsProcessed, RequestsNotFound, RequestsOverflow, RequestsAborted, and RequestsInProgress.

Counters	Counter Description
HttpRequestsAborted	This counter represents the total number of HTTP requests that the HTTP server canceled (aborted) unexpectedly. Requests could get 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.
HttpRequestsNotFound	This counter represents the total number of HTTP requests where the requested file was not found. When the HTTP server does not find the requested file, a message gets sent to the requesting device.
HttpRequestsOverflow	This counter represents the total number of HTTP requests that were rejected when the maximum number of allowable client connections was reached. The requests may have 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.
HttpRequestsProcessed	This counter represents the total number of HTTP requests that the HTTP server successfully processed.
HttpServedFromDisk	This counter represents the number of requests that the HTTP server completed with the files that are on disk and not cached in memory.
LDFoundCount	This counter represents the number of LD files that were found in the cache. This counter gets updated each time a LD file is found in cache memory.
LDNotFoundCount	This counter represents the number of LD files that were not found in cache memory. This counter gets updated each time a request to get an LD file results in the cache not finding it.
MaxServingCount	This counter represents the maximum number of client connections that the TFTP can serve simultaneously. The Cisco TFTP advanced service parameter, Maximum Serving Count, sets this value.
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.



Counters	Counter Description
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.
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.
RequestsNotFound	This counter represents the total number of TFTP requests for which the requested file was not found. When the TFTP server does not find the requested file, a message gets sent to the requesting device. If this counter increments in a cluster that is configured as secure, this event usually indicates an error condition. If, however, the cluster is configured as non-secure, it is normal for the CTL file to be absent (not found), which results in a message being sent to the requesting device and a corresponding increment in this counter. For non-secure clusters, then, this normal occurrence does not represent an error condition.
RequestsOverflow	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.
RequestsProcessed	This counter represents the total number of TFTP requests that the TFTP server successfully processed.
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 successfully gets transmitted to the requesting device.

Counters	Counter Description
SegmentsFromDisk	This counter represents the number of data segments that the TFTP server reads from the files on disk, while serving files.
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.
SEPFoundCount	This counter represents the number of SEP files that were successfully found in the cache. This counter gets updated each time that a SEP file is found in the cache.
SEPNotFoundCount	This counter represents the number of SEP files that were not found in the cache. This counter gets updated each time that a request to get a SEP file produces a not found in cache memory result.
SIPFoundCount	This counter represents the number of SIP files that were successfully found in the cache. This counter gets updated each time that a SIP file is found in the cache
SIPNotFoundCount	This counter represents the number of SIP files that were not found in the cache. This counter gets updated each time that a request to get a SIP file produces a not found in cache memory result.
SoftkeyChangeNotifications	This counter represents the number of times that the TFTP server received database change notification to create, update, or delete configuration files for softkeys.
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. The following table contains information on Cisco transcoder device counters.

Table 57: Cisco Transcode Device

Counters	Counter Description
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	This counter represents the number of transcoder resources that are currently in use (active) for a transcoder device.  Each transcoder resource uses two streams.
ResourceAvailable	This counter represents the total number of resources that are not active and are still available to be used now for a transcoder device.  Each transcoder resource uses two streams.
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. The following table contains information on Cisco video conference bridge device counters.

Table 58: Cisco Video Conference Bridge

Counters	Counter Description
ConferencesActive	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.
ConferencesAvailable	This counter represents the number of video conferences that are not active and are still available on a video conference device.
ConferencesCompleted	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.

Counters	Counter Description
ConferencesTotal	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 that 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 that is 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.
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 Web Dialer

The Cisco Web Dialer object provides information about the Cisco Web Dialer application and the Redirector servlet. The following table contains information on the Cisco Web Dialer counters.

*Table 59: Cisco Web Dialer*

Counters	Counter Description
CallsCompleted	This counter represents the number of Make Call and End Call requests that the Cisco Web Dialer 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.

Counters	Counter Description
RedirectorSessionsInProgress	This counter represents the number of HTTP sessions that are currently being serviced by the Redirector servlet.
RequestsCompleted	This counter represents the number of Make Call and End Call requests that the Web Dialer servlet has successfully completed.
RequestsFailed	This counter represents the number of Make Call and End Call requests that failed.
SessionsHandled	This counter represents the total number of CTI sessions that the Cisco Web Dialer servlet handled since the last service startup.
SessionsInProgress	This counter represents the number of CTI sessions that the Cisco Web Dialer servlet is currently servicing.

## Cisco WSM Connector

The WSM object provides information on WSMConnectors that are configured on Unified Communications Manager. Each WSMConnector represents a physical Motorola WSM device. The following table contains information on the Cisco WSM Connector counters.

**Table 60: Cisco WSM Connector**

Counters	Counter Description
CallsActive	This counter represents the number of calls that are currently active (in use) on the WSMConnector device.
CallsAttempted	This counter represents the number of calls that have been attempted on the WSMConnector device, including both successful and unsuccessful call attempts.
CallsCompleted	This counter represents the number of calls that are connected (a voice path was established) through the WSMConnector device. The counter increments when the call terminates.
CallsInProgress	This counter represents the number of calls that are currently in progress on the WSMConnector device. This includes all active calls. When the number of CallsInProgress equals the number of CallsActive, this indicates that all calls are connected.

Counters	Counter Description
DMMSRegistered	This counter represents the number of DMMS subscribers that are registered to the WSM.

## IME Client

The IME Client object provides information about the Cisco IME client on the Unified Communications Manager server. The following table contains information on the Cisco IME client counters.

*Table 61: Cisco IME Client*

Counters	Counter Description
CallsAccepted	This counter indicates the number of Cisco IME calls that the Unified Communications Manager received successfully and that the called party answered, resulting in an IP call.
CallsAttempted	This counter indicates the number of calls that the Unified Communications Manager received through Cisco IME. This number includes accepted calls, failed calls, and busy, no-answer calls. The counter increments each time that Unified Communications Manager receives a call through Cisco IME.
CallsReceived	This counter indicates the number of calls that Unified Communications Manager receives through Cisco IME. This number includes accepted calls, failed calls, and busy, no-answer calls. The counter increments on call initiation.
CallsSetup	This counter indicates the number of Cisco IME calls that Unified Communications Manager placed successfully and that the remote party answered, resulting in an IP call.
DomainsUnique	This counter indicates the number of unique domain names of peer enterprises that the Cisco IME client discovered. The counter serves as an indicator of overall system usage.
FallbackCallsFailed	This counter indicates the total number of failed fallback attempts.
FallbackCallsSuccessful	This counter indicates the total number of Cisco IME calls that have fallen back to the PSTN mid-call due to a quality problem. The counter includes calls initiated and calls received by this Unified Communications Manager.

Counters	Counter Description
IMESetupsFailed	This counter indicates the total number of call attempts for which a Cisco IME route was available but that were set up through the PSTN due to a failure to connect to the target over the IP network.
RoutesLearned	This counter indicates the total number of distinct phone numbers that the Cisco IME has learned and that are present as routes in the Unified Communications Manager routing tables. If this number grows too large, the server may exceed the per-cluster limit, and you may need to add additional servers to your cluster.
RoutesPublished	This counter indicates the total number of DIDs that were published successfully into the IME distributed cache across all Cisco IME client instances. The counter provides a dynamic measurement that gives you an indication of your own provisioned usage and a sense of how successful the system has been in storing the DIDs in the network.
RoutesRejected	This counter indicates the number of learned routes that were rejected because the administrator blacklisted the number or domain. This counter provides an indication of the number of cases where a VoIP call cannot happen in the future because of the blocked validation.
VCRUploadRequests	This counter indicates the number of voice call record (VCR) upload requests that the Unified Communications Manager has sent to the Cisco IME server to be stored in the IME distributed cache.

## IME Client Instance

The IME Client Instance object provides information about the Cisco IME client instance on the Unified Communications Manager server. The following table contains information on the Cisco IME client instance counters.

Table 62: IME Client

Counters	Counter Description
IMEServiceStatus	<p>This counter indicates the overall health of the connection to the Cisco IME services for a particular Cisco IME client instance (Unified Communications Manager). The following values may display for the counter:</p> <ul style="list-style-type: none"> <li>• 0—Indicates an unknown state (which may mean that the Cisco IME service is not active). If the value specifies 0, an alert gets generated once per hour while the connection remains in the unknown state.</li> <li>• 1—Indicates a healthy state; that is, the Cisco IME service is active, and the Unified Communications Manager has successfully established a connection to its primary and backup servers for the Cisco IME client instance, if configured.</li> <li>• 2—Indicates an unhealthy state; that is, the Cisco IME service is active, but the Unified Communications Manager has not successfully established a connection to its primary and backup servers for the Cisco IME client instance, if configured.</li> </ul>

## SAML Single Sign-On

The following table contains information about SAML Single Sign-On counters.

Table 63: SAML Single Sign-On Counters

Counter	Counter description
SAML_REQUESTS	This counter represents the total number of SAML requests sent to the configured Identity Provider.
SAML_RESPONSES	This counter represents the total number of SAML responses received from the configured Identity Provider.

Additionally, the following SAML SSO counters are also displayed in the Unified RTMT but they are not functional in Unified Communications Manager 10.0(1):

- OAUTH\_TOKENS\_ISSUED
- OAUTH\_TOKENS\_ACTIVE
- OAUTH\_TOKENS\_VALIDATED



- OAUTH\_TOKENS\_EXPIRED
- OAUTH\_TOKENS\_REVOKED

## Cisco IVR Device

This object provides information about registered Cisco Interactive Voice Response (IVR) devices.

Counters	Counter Description
ResourceTotal	This represents the total number of IVR resources configured for this IVR device.
ResourceActive	This represents the total number of IVR resources that are currently active for this IVR device.
ResourceAvailable	This represents the total number of resources that are not active and are still available to be used at the current time for the IVR device.
OutOfResources	This represents the total number of times an attempt was made to allocate an IVR resource from this IVR device and failed, because all the resources were in use.

## IM and Presence Service Counters

### Cisco Client Profile Agent

This object provides information about the Cisco Client Profile (SOAP) interface.

The following table contains information about client profile agent counters.

**Table 64: Cisco Client Profile Agent counters**

Counters	Counter Descriptions
SoapCrossClusterRedirect	This counter represents the number of login requests received by the Cisco SOAP interface which were redirected to a node in a peer cluster.
SoapLoginFailures	This counter represents the number of failed login requests received by the Cisco SOAP interface.
SoapNodeRedirect	This counter represents the number of login requests received by the Cisco SOAP interface which were redirected to another node.

## Cisco Presence Engine

The Cisco Presence Engine object provides information about the SIP messages that the Presence Engine receives and sends.

The following table contains information about Cisco Presence Engine performance counters.

**Table 65: Cisco Presence Engine counters**

Counters	Counter Description
<b>Subscribe</b>	
SubscribesReceived	This counter represents the number of SUBSCRIBE messages received by the Presence Engine, including initial subscribes, refreshes, fetches & unsubscribes.
SubscribesSent	This counter represents the total number of SUBSCRIBE messages sent from the Presence Engine.
SubscribesReceivedPresence	This counter represents the number of SUBSCRIBE messages received by the Presence Engine with an event type of presence.
SubscribesReceivedProfileConfig	This counter represents the number of SUBSCRIBE messages received by the Presence Engine with an event type of profileconfig.
SubscribesInitial	This counter represents the number of initial non-calendar SUBSCRIBE messages received.
SubscribesRefresh	This counter represents the number of non-calendar refresh SUBSCRIBE messages received.
SubscribesFetch	This counter represents the number of non-calendar fetch SUBSCRIBE messages received.
SubscribesRemove	This counter represents the number of non-calendar remove SUBSCRIBE messages received.
ActiveSubscriptions	This counter represents the number of non-calendar subscriptions that are currently active.
SubscribesRedirect3xx	This counter represents the number of SUBSCRIBE messages redirected with a 3xx response.
SubscribesRejected4xx	This counter represents the number of SUBSCRIBE messages rejected with a 4xx response.
SubscribesRejected5xx	This counter represents the number of SUBSCRIBE messages rejected with a 5xx response.
SubscribesRejected6xx	This counter represents the number of SUBSCRIBE messages rejected with a 6xx response.

<b>Counters</b>	<b>Counter Description</b>
SubscribesRejectedWith503	This counter represents the number of SUBSCRIBE messages rejected with a 503 responses.
SubscriptionActiveSentForeign	This counter represents the number of active subscriptions sent by the Presence Engine to a foreign domain.
SubscriptionActiveReceivedFrom Foreign	This counter represents the number of active subscriptions received by the Presence Engine from a foreign domain.
WatcherInfoPresenceSubscriptions	This counter represents the number of watcher-info presence subscriptions.
<b>Calendar</b>	
ActiveCalendarSubscriptions	This counter represents the number of calendar subscriptions that are currently active.
SubscribesSentCalendarInitial	This counter represents the number of initial SUBSCRIBE messages sent by the Presence Engine to the calendar server.
SubscribesSentCalendarRefresh	This counter represents the number of refresh SUBSCRIBE messages sent by the Presence Engine to the calendar server.
SubscribesSentCalendarRetry	This counter represents the number of retry SUBSCRIBE messages sent by the Presence Engine to the calendar server.
SubscribesReceivedCalendar	This counter represents the number of SUBSCRIBE messages received by the Presence Engine with an event type of calendar.
NotifiesReceivedCalendar	This counter represents the number of NOTIFY messages by the Presence Engine with an event type of calendar.
NotifiesSentCalendar	This counter represents the number of NOTIFY messages sent from the Presence Engine with an event type of calendar.
MeetingsStarted	This counter represents the number of meetings that were started through calendar integration.
MeetingsEnded	This counter represents the number of meetings that were ended through calendar integration.
<b>Publish</b>	

<b>Counters</b>	<b>Counter Description</b>
PublicationsProcessed	This counter represents the number of successful publications processed by the Presence Engine.
PublishInitial	This counter represents the number of initial PUBLISH messages received.
PublishRefresh	This counter represents the number of refresh PUBLISH messages received.
PublishModify	This counter represents the number of modify PUBLISH messages received.
PublishRemove	This counter represents the number of remove PUBLISH messages received.
<b>Notify</b>	
NotificationsInQueue	This counter represents the number of the existing number of outgoing NOTIFY messages queued by the Presence Engine.
NotifiesSent	This counter represents the number of successful NOTIFY messages sent out by the Presence Engine.
NotifiesReceived	This counter represents the number of NOTIFY messages received by the Presence Engine from backend subscriptions.
NotifiesSentPresence	This counter represents the number of NOTIFY messages sent from the Presence Engine with an event type of presence.
NotifiesSentProfileConfig	This counter represents the number of NOTIFY messages sent from the Presence Engine with an event type of profileconfig.
NotifiesRetried	This counter represents the number of NOTIFY messages sent that were retried.
NotifiesTimeouts	This counter represents the number of NOTIFY messages that timed out.
NotifiesRejected3xx	This counter represents the number of NOTIFY messages rejected with a 3xx response.
NotifiesRejected4xx	This counter represents the number of NOTIFY messages rejected with a 4xx response.
NotifiesRejected5xx	This counter represents the number of NOTIFY messages rejected with a 5xx response.
NotifiesRejected503	This counter represents the number of NOTIFY messages rejected with a 503 response.

<b>Counters</b>	<b>Counter Description</b>
NotifiesRejected6xx	This counter represents the number of NOTIFY messages rejected with a 6xx response.
WatcherInfoPresenceNotifications	This counter represents the number of watcher-info presence notifications.
WatcherInfoPresenceSubscriptions	This counter represents the number of watcher-info presence subscriptions.
<b>HighWaterMark</b>	
HighWaterMark	This counter represents the number of times the load high water mark has been reached.
<b>Active Views</b>	
ActiveViews	This counter represents the number of Active Views in the Presence Engine.
<b>Active Resources</b>	
ActiveResources	This counter represents the number of active resources in the Presence Engine.
<b>JSM</b>	
ActiveJsmSessions	This counter represents the number of client emulation sessions between the Presence Engine and JSM.
<b>XMPP</b>	
XMPPPresenceReceived	This counter represents the number of XMPP presence packets received.
XMPPPresenceFiltered	This counter represents the number of XMPP presence packets received that were filtered.
XMPPPresenceNotificationsSent	This counter represents the number of composed presence updates sent to JSM.
XMPPIMReceived	This counter represents the number of XMPP Instant Message packets received by the Presence Engine.
XMPPIMSent	This counter represents the number of XMPP Instant Message packets sent by the Presence Engine.
XMPPIMTcInviteErrors	This counter represents the number of XMPP TC Invites rejected by the Presence Engine.
XMPPIMResourceNotFoundErrors	This counter represents the number of XMPP Instant Message packets received for unregistered SIP resources.

<b>Counters</b>	<b>Counter Description</b>
XMPPIMIgnored	This counter represents the number of XMPP Instant Message packets dropped by the Presence Engine.
XMPPIMGoneGenerated	This counter represents the number of gone messages sent to the RFI on presence events.
RFIErrors	This counter represents the number of errors when sending XMPP messages to the RFI layer.
RFIMessageQueueSize	This counter represents the current number of XMPP Messages that are queued as the RFI is PAUSED.
<b>SIP</b>	
SIPIMReceived	This counter represents the number of SIP Instant Message packets received by the Presence Engine.
SIPIMSent	This counter represents the number of SIP Instant Message packets sent by the Presence Engine.
SIPIMGoneGenerated	This counter represents the number of gone messages sent to the Proxy on presence events.
SIPIMRetry	This counter represents the number of SIP Instant Message resent to the Proxy.
SIPIMTimeout	This counter represents the number of SIP Instant Message packets that timed out when sending to the Proxy.
SIPIMReject3xx	This counter represents the number of 3xx errors when attempting to send SIP Instant Message packets to the Proxy.
SIPIMReject4xx	This counter represents the number of 4xx errors when attempting to send SIP Instant Message packets to the Proxy.
SIPIMReject5xx	This counter represents the number of 5xx errors when attempting to send SIP Instant Message packets to the Proxy.
SIPIMReject6xx	This counter represents the number of 6xx errors when attempting to send SIP Instant Message packets to the Proxy.
ActiveIMSessions	This counter represents the number of Active Instant Message sessions between SIP and XMPP.
<b>Roster Sync</b>	
RosterSyncAddBuddySuccess	This counter represents the number of successful add buddy requests processed by the Roster Sync Agent.

<b>Counters</b>	<b>Counter Description</b>
RosterSyncAddBuddyFailure	This counter represents the number of failed add buddy requests processed by the Roster Sync Agent.
RosterSyncUpdateBuddySuccess	This counter represents the number of successful update buddy requests processed by the Roster Sync Agent.
RosterSyncUpdateBuddyFailure	This counter represents the number of failed update buddy requests processed by the Roster Sync Agent.
RosterSyncDeleteBuddySuccess	This counter represents the number of successful delete buddy requests processed by the Roster Sync Agent.
RosterSyncDeleteBuddyFailure	This counter represents the number of failed delete buddy requests processed by the Roster Sync Agent.
RosterSyncSubscribeSuccess	This counter represents the number of successful subscribe requests processed by the Roster Sync Agent.
RosterSyncSubscribeFailure	This counter represents the number of failed subscribe requests processed by the Roster Sync Agent.
RosterSyncUnSubscribeSuccess	This counter represents the number of successful unsubscribe requests processed by the Roster Sync Agent.
RosterSyncUnSubscribeFailure	This counter represents the number of failed unsubscribe requests processed by the Roster Sync Agent.
PolicyUpdateSent	This counter represents the number of privacy policy update sent to XCP.
PolicyUpdateReceived	This counter represents the number of privacy policy update received from XCP.
RosterSyncUnSubscribedSuccess	This counter represents the number of successful unsubscribed requests processed by the Roster Sync Agent.
RosterSyncUnSubscribedFailure	This counter represents the number of failed unsubscribed requests processed by the Roster Sync Agent.

## Cisco Server Recovery Manager

This object provides information about the Cisco Server Recovery Manager (SRM) state. The following table contains information about SRM counters.

**Table 66: Cisco Server Recovery Manager Counters**

Counters	Counter Descriptions
SRMState	<p>This counter represents the state of the SRM.</p> <ul style="list-style-type: none"> <li>• 0 = Unknown</li> <li>• 1 = Initializing</li> <li>• 2 = Idle</li> <li>• 3 = Active Normal</li> <li>• 4 = Backup Activated</li> <li>• 5 = Taking Over</li> <li>• 6 = Taking Back</li> <li>• 7 = Failing Over</li> <li>• 8 = Failed Over</li> <li>• 9 = Failed Over Affected Service</li> <li>• 10 = Falling Back</li> <li>• 11 = Failed</li> <li>• 12 = Down State</li> </ul>

## Cisco SIP Proxy

The following table contains information about Cisco SIP Proxy counters.

**Table 67: Proxy counters**

Counters	Counter Descriptions
CTIGWConferenceReq	This counter represents the number of conference call requests received by CTIGW.
CTIGWInboundCalls	This counter represents the number of inbound calls received by CTIGW.
CTIGWLineOpenRequest	This counter represents the number of LineOpen requests received by CTIGW.
CTIGWMakeCallRequest	This counter represents the number of MakeCall requests received by CTIGW.



<b>Counters</b>	<b>Counter Descriptions</b>
CTIGWRefreshCount	This counter represents the number of INVITE Refreshes received by the IM and Presence server that are sent from the MOC client.
CTIGWRetrieveReq	This counter represents the number of retrieve call requests received by CTIGW.
CTIGWSip4XXRes	This counter represents the number of SIP 4XX response sent by CTIGW.
CTIGWSip5XXRes	This counter represents the number of SIP 5XX response sent by CTIGW.
CTIGWSSXrefReq	This counter represents the number of single step transfer call requests received by CTIGW.
CTIGWUsersAuthorized	This counter represents the number of users authorized by CTIGW.
CTIGWUsersCurrentlyAuthorized	This counter represents the number of users currently logged into MOC client for Remote Call Control.
CTIGWXrefReq	This counter represents the number of transfer call requests received by CTIGW.
HttpRequests	This counter represents the number of HTTP requests processed.
IMCTRLActiveSessions	This counter represents the current number of active federated IM sessions.
IMGWActiveSessions	This counter represents the current number of active SIP XMPP IM gateway sessions being maintained by the proxy.
IMGWClientMessageSent	This counter represents the current number of SIP Messages sent to SIP client from the XMPP IM gateway.
IMGWPeMessageReceived	This counter represents the current number of SIP Messages received from the local PE by the XMPP IM gateway.
IMGWPeMessageSent	This counter represents the current number of SIP Messages sent to the local PE for the XMPP IM gateway.
Ipc_Requests	This counter represents the number of IPC requests from the TCP process.
NumIdleSipdWorkers	This counter represents the number of idle sipd worker processes at a current instance.

<b>Counters</b>	<b>Counter Descriptions</b>
NumSipdWorker	This counter represents the number of sipd worker processes at a current instance.
Proxy_Due_Timer_Events	This counter represents the number of past-due timer events that were queued.
Proxy_Timer_Events	This counter represents the number of expired timer events.
PWSAppUserLoginRequest	This counter represents the number of Application User login requests received by the Presence Web Service Module.
PWSAppUserLogoutRequest	This counter represents the number of Application User logout requests received by the Presence Web Service Module.
PWSEndpointExpired	This counter represents the number of subscriptions that expire before been refreshed.
PWSEndpointRefreshRequest	This counter represents the number of Endpoint refresh requests received by the Presence Web Service Module.
PWSEndUserLoginRequest	This counter represents the number of End User login requests received by the Presence Web Service Module.
PWSEndUserLogoutRequest	This counter represents the number of End User logout requests received by the Presence Web Service Module.
PWSGetPolledPresenceRequest	This counter represents the number of GetPolledPresence requests received by the Presence Web Service Module.
PWSGetSubscribedPresenceRequest	This counter represents the number of GetSubscribedPresence requests received by the Presence Web Service Module.
PWSPresenceNotifies	This counter represents the number of Presence Notifications sent by the Presence Web Service Module.
PWSRegisterEndpointRequest	This counter represents the number of Register Endpoint requests received by the Presence Web Service Module.
PWSSetPresenceRequest	This counter represents the number of SetPresence requests received by the Presence Web Service Module.

<b>Counters</b>	<b>Counter Descriptions</b>
PWSSipNotifies	This counter represents the number of SIP Notifies received by the Presence Web Service Module.
PWSSipPublishRequests	This counter represents the number of SIP Publish requests sent by the Presence Web Service Module.
PWSSipSubscribeRequests	This counter represents the number of SIP Subscribe requests sent by the Presence Web Service Module.
PWSSipUnpublishRequests	This counter represents the number of SIP Unpublish requests sent by the Presence Web Service Module.
PWSSipUnsubscribeRequests	This counter represents the number of SIP Unsubscribe requests sent by the Presence Web Service Module.
PWSSubscribeExpired	This counter represents the number of endpoint registrations that expire before been refreshed.
PWSSubscribeRefreshRequest	This counter represents the number of Subscribe refresh requests received by the Presence Web Service Module.
PWSSubscribeRequest	This counter represents the number of Subscribe requests received by the Presence Web Service Module.
PWSUnregisterEndpointRequest	This counter represents the number of Unregister Endpoint requests received by the Presence Web Service Module.
PWSUnsubscribeRequest	This counter represents the number of Unsubscribe requests received by the Presence Web Service Module.
ServerLoadStatus	This counter represents the Server load status on scale of 0 (idle) to 3 (swamped).
SIPClientImMessage	This counter represents the number of SIP Client Instant Messages received by the proxy.
SIPClientRegistered	This counter represents the number of SIP Client REGISTER requests received by the proxy.
SIPClientRegisterFailed	This counter represents the number of failed SIP Client REGISTER requests received by the proxy.
Sip_Tcp_Requests	This counter represents the number of sip requests received over tcp transport.
Sip_Udp_Requests	This counter represents the number of sip requests received over udp transport.

<b>Counters</b>	<b>Counter Descriptions</b>
SIPInviteRequestIn	This counter represents the number of INVITE requests received by the proxy.
SIPInviteRequestInForeign	This counter represents the current number of INVITE requests received by the proxy across the enterprise boundary.
SIPInviteRequestOut	This counter represents the number of INVITE requests sent by the proxy.
SIPInviteRequestOutForeign	This counter represents the current number of INVITE requests sent by the proxy across the enterprise boundary.
SIPMessageRequestIn	This counter represents the number of MESSAGE requests received by proxy.
SIPMessageRequestInForeign	This counter represents the current number of MESSAGE requests received by the proxy across the enterprise boundary.
SIPMessageRequestOutForeign	This counter represents the current number of MESSAGE requests sent by the proxy across the enterprise boundary.
SIPNotifyRequestIn	This counter represents the number of NOTIFY requests received by the proxy.
SIPNotifyRequestInForeign	This counter represents the current number of NOTIFY requests received by the proxy across the enterprise boundary.
SIPNotifyRequestOutForeign	This counter represents the current number of NOTIFY requests sent by the proxy across the enterprise boundary.
SIPRegisterRequestIn	This counter represents the number of REGISTER requests received by the proxy.
SIPRequestInForeign	This counter represents the current number of requests received directly by the proxy across the enterprise boundary.
SIPRequestOutForeign	This counter represents the current number of requests sent directly by proxy across the enterprise boundary.
SIPRetransmits	This counter represents the number of retransmits executed by the proxy.
SIPSubscribeRequestIn	This counter represents the number of SUBSCRIBE requests received by the proxy.

Counters	Counter Descriptions
SIPSubscribeRequestInForeign	This counter represents the current number of SUBSCRIBE requests received by the proxy across the enterprise boundary.
SIPSubscribeRequestOutForeign	This counter represents the current number of SUBSCRIBE requests sent by the proxy across the enterprise boundary.

## Cisco Sync Agent

This object provides information about the number of errors that occur during synchronization. The following table contains information about the Cisco Sync Agent counter.

*Table 68: Cisco Sync Agent Counter*

Counter	Counter Description
NumberOfSyncErrors	This counter displays the number of errors that occur during synchronization. The counter resets to 0 when the Cisco sync agent is restarted.  This counter is always 0 on the subscriber node.

## Cisco XCP Auth Component

The following table contains information about Cisco XCP Authentication performance counters.

*Table 69: Cisco XCP Auth Component Counters*

Counter	Counter description
SASLPlainSuccess	This counter represents the total number of successful SASL plain authentication attempts.
SASLPlainFailed	This counter represents the total number of failed SASL plain authentication attempts.
VtgTokenSuccess	This counter represents the number of successful vtg-token authentication attempts.
VtgTokenFailed	This counter represents the number of failed vtg-token authentication attempts.
FailedLicense	This counter represents the total number of failed authentication attempts due to no license.
FailedSASLCredentials	This counter represents the total failed SASL plain authentication attempts due to invalid username and password.

Counter	Counter description
FailedTokenCredentials	This counter represents the total failed vtg-token authentication attempts due to invalid username and password.

## Cisco XCP CM

The following table contains information about Cisco XCP Connection Manager (CM) performance counters.

*Table 70: Cisco XCP CM Counters*

Counter	Counter Description
CmConnectedSockets	This counter represents the number of connected sockets in the Web Connection Manager component.
CmFailedRequests	This counter represents the total number of failed connection requests.

## Cisco XCP Component Stanza Traffic

The following table provides information about Cisco XCP Component Stanza Traffic performance counters.

*Table 71: Cisco XCP Component Stanza Traffic Counters*

Counter	Counter description
CompStanzaBytesSent	This counter represents the number of bytes sent on a per-component basis.
CompStanzaBytesRecv	This counter represents the number of bytes received on a per-component basis.
CompStanzaErrorsRecv	This counter represents the number of errors sent on a per-component basis.
CompStanzaErrorsSent	This counter represents the number of errors received on a per-component basis.
CompStanzaPacketsDropped	This counter represents the number of packets dropped on a per-component basis.
CompStanzaStanzasSent	This counter represents the number of stanzas sent on a per-component basis.
CompStanzaStanzasRecv	This counter represents the number of stanzas received on a per-component basis.
CompStanzaMessagePacketsSent	This counter represents the number of message packets sent on a per-component basis.

Counter	Counter description
CompStanzaMessagePacketsRecv	This counter represents the number of message packets received on a per-component basis.
CompStanzaPresencePacketsSent	This counter represents the number of presence packets sent on a per-component basis.
CompStanzaPresencePacketsRecv	This counter represents the number of presence packets received on a per-component basis.
CompStanzaIQPacketsRecv	This counter represents the number of IQ packets received on a per-component basis.
CompStanzaIQPacketsSent	This counter represents the number of IQ packets sent on a per-component basis.

## Cisco XCP JDS

The following table contains information about the Cisco XCP JDS performance counters.

**Table 72: Cisco XCP JDS Counters**

Counter	Counter description
JdsLDAPSuccess	This counter represents the total number of successful LDAP searches.
JdsLDAPFailed	This counter represents the total number of failed LDAP searches.
JdsInvalidRequests	This counter represents the number of invalid LDAP search requests rejected by Cisco XCP JDS and not sent to LDAP.

## Cisco XCP JSM

The following table contains information about the XCP JSM performance counters.

**Table 73: Cisco XCP JSM Counters**

Counter	Counter description
JsmMessagesIn	This counter represents the number of message stanzas received by the JSM component.
JsmMessagesOut	This counter represents the number of message stanzas sent by the JSM component.
JsmPresenceIn	This component represents the number of presence stanzas received by the JSM component.

Counter	Counter description
JsmPresenceOut	This component represents the number of presence stanzas sent by the JSM component.
JsmIMSessions	This counter represents the total number of active JSM sessions on the IM and Presence service. On IM and Presence, the Presence Engine creates a JSM client emulation session for every licensed user at startup time. Additional JSM sessions are also created while users are signed in on their clients. Users may be signed in on multiple clients simultaneously resulting in multiple additional JSM sessions per user.
JsmOnlineUsers	This counter represents the number of users with one or more JSM sessions. On IM and Presence, the Presence Engine creates a JSM client emulation session for every licensed user. The value of this counter should therefore match the value of the Presence Engine ActiveJsmSessions counter.
JsmLoginRate	This counter represents the current login rate being tracked by the JSM component.
JsmSuccessfulLogins	This counter represents the total number of successful logins.
JsmFailedLogins	This counter is always 0 on IM and Presence. For details on failed login attempts, see the Cisco XCP Auth Component counters.
JsmTotalMessagePackets	This counter represents the total message packets processed by the JSM component.
JsmTotalPresencePackets	This counter represents the total presence packets processed by the JSM component.
JsmTotalIQPackets	This counter represents the total number of IQ packets processed by the JSM.
JsmMsgsInLastSlice	This counter represents the total messages processed by the JSM component in last time slice.
JsmAverageMessageSize	This counter represents the average message size processed by the JSM component.
JsmTotalStateChangePackets	This counter is always set to 0 on IM and Presence and is reserved for future use.
JsmStateChangePacketsInSlice	This counter is always set to 0 on IM and Presence and is reserved for future use.
JsmAverageStateChangeSize	This counter is always set to 0 on IM and Presence and is reserved for future use.



## Cisco XCP JSM IQ Namespaces

The following table contains information about the Cisco XCP JSM IQ Namespaces performance counters.

**Table 74: Cisco XCP JSM IQ Namespaces**

Counter	Counter description
JSM IQ Namespace	This counter represents the number of IQ packets handles on a per-namespace basis.

## Cisco XCP JSM Session

The following table contains information about the Cisco XCP JSM Session performance counters.

**Table 75: Cisco XCP JSM Session Counters**

Counter	Counter description
JsmSessionIQIn	This counter represents IQ packets received by JSM on a per-session basis.
JsmSessionIQOut	This counter represents IQ packets sent by JSM on a per-session basis.
JsmSessionMessagesIn	This counter represents message packets received by JSM on a per-session basis.
JsmSessionMessagesOut	This counter represents message packets sent by JSM on a per-session basis.
JsmSessionPresenceIn	This counter represents presence packets received by JSM on a per-session basis.
JsmSessionPresenceOut	This counter represents presence packets sent by JSM on a per-session basis.
JsmSessionRosterSize	This counter represents the size of the user's roster on a per-session basis.

## Cisco XCP MA Basic

The following table contains information about the Cisco XCP Message Archiver Basic performance counters.

**Table 76: Cisco XCP MA Basic Counters**

Counter	Counter description
ReceivedPackets	This counter represents the total number of packets received by IM and Presence and archived by the Message Archiver component.

Counter	Counter description
SentPackets	This counter represents the total number of packets sent from IM and Presence and archived by the Message Archiver component.
SuccessfulDBWriters	This counter represents the confirmed IMs records written to the Database.
FailedDBWriters	This counter represents the failed attempts to write to the Database.
PacketsDropped	This counter represents the number of packets Message Archiver receives but are not written to the Database, for example, isTyping packets.
DBQueueSize	This counter represents the number of packets that Message Archiver has queued pending write to Database.

## Cisco XCP Managed File Transfer

The following table contains information about the Cisco XCP Managed File Transfer performance counters.

**Table 77: Managed File Transfer Counters**

Counter	Counter description
MFTBytesDownloadedLastTimeslice	This counter represents the number of bytes downloaded during the last reporting interval (typically 60 seconds).
MFTBytesUpoadedLastTimeslice	This counter represents the number of bytes uploaded during the last reporting interval (typically 60 seconds).
MFTFilesDownloaded	This counter represents the total number of files downloaded.
MFTFilesDownloadedLastTimeslice	This counter represents the number of files downloaded during the last reporting interval (typically 60 seconds).
MFTFilesUploaded	This counter represents the total number of files uploaded.
MFTFilesUploadedLastTimeslice	This counter represents the number of files uploaded during the last reporting interval (typically 60 seconds).

## Cisco XCP Router

The following table contains information about the Cisco XCP Router performance counters.

**Table 78: Cisco XCP Router Counters**

Counter	Counter description
RouterNormalPackets	This counter represents the total number of normal packets handled by the Cisco XCP router.
RouterXdbPackets	This counter represents the total number of xdb packets handled by the Cisco XCP router.
RouterRoutePackets	This counter represents the total number of route packets handled by the Cisco XCP router.
RouterLogPackets	This counter represents the total number of log packets handled by the Cisco XCP router.

## Cisco XCP SIP S2S

The following table contains information about Cisco XCP SIP Server-to-Server (S2S) performance counters.

**Table 79: Cisco SIP S2S counters**

Counter	Counter description
SIPS2SIncomingDomains	This counter represents the total foreign domains with incoming subscriptions.
SIPS2SOutgoingDomains	This counter represents the total foreign domains with outgoing subscriptions.
SIPS2SSubscriptionsOut	This counter represents the total active SIP outgoing subscriptions.
SIPS2SSubscriptionsIn	This counter represents the total active SIP incoming subscriptions.
SIPS2SSubscriptionsPending	This counter represents the total pending SIP outgoing subscriptions.
SIPS2SNotifyIn	This counter represents the total SIP NOTIFY messages received.
SIPS2SNotifyOut	This counter represents the total SIP NOTIFY messages sent.
SIPS2SMessageIn	This counter represents the total SIP MESSAGE messages received.

Counter	Counter description
SIPS2SMessageOut	This counter represents the total SIP MESSAGE messages sent.
SIPS2SByeIn	This counter represents the SIP BYE messages received.
SIPS2SInviteIn	This counter represents the SIP INVITE messages received.
SIPS2SInviteOut	This counter represents the SIP INVITE messages sent.

## Cisco XCP S2S

The following table contains information about Cisco XCP Server-to-Server (S2S) performance counters.

*Table 80: Cisco XCP S2S Counters*

Counters	Counter description
S2SIncomingDomains	This counter represents the total foreign domains with incoming subscriptions.
S2SOutgoingDomains	This counter represents the total foreign domains with outgoing subscriptions.
S2SFailedDialbackIn	This counter represents the total failed incoming dialback attempts.
S2SFailedDialbackOut	This counter represents the total failed outgoing dialback attempts.

## Cisco XCP TC

The following table contains information about Cisco XCP Text Conferencing (TC) performance counters.

*Table 81: Cisco XCP TC Counters*

Counter	Counter description
TcTotalRooms	This counter represents the total number of all types of text chat rooms.
TcAdhocRooms	This counter represents the total number of ad hoc text chat rooms.
TcPersistentRooms	This counter represents the total number of permanent text chat rooms.

Counter	Counter description
TcCreatedRooms	This counter represents the total number of created text chat rooms.
TcDeletedRooms	This counter represents the total number of deleted text chat rooms.
TcMessagesIn	This counter represents the total number of group chat messages received.
TcMessagesOut	This counter represents the total number of group chat messages sent.
TcDirectedMessagesIn	This counter represents the total number of private and invite messages received.
TcMessagesPersisted	This counter represents the total number of messages archived to the external database.
TcMessagesIgnored	This counter represents the total number of messages not archived to the external database.

## Cisco XCP TC Room

The following table contains information about the Cisco XCP TC Room performance counters.

**Table 82: Cisco XCP TC Room Counters**

Counter	Counter description
TCRoomNumOccupants	This counter represents the number of occupants on a per-chat room basis.
TCRoomBytesSent	This counter represents the number of bytes sent on a per-chat room basis.
TCRoomBytesRecv	This counter represents the number of bytes received on a per-chat room basis.
TCRoomStanzasSent	This counter represents the number of stanzas sent on a per-chat room basis.
TCRoomStanzasRecv	This counter represents the number of stanzas received on a per-chat room basis.
TCRoomMsgPacketSent	This counter represents the number of messages sent on a per-chat room basis.
TCRoomMsgPacketsRecv	This counter represents the number of messages received on a per-chat room basis.

Counter	Counter description
TCRoomPresencePacketsSent	This counter represents the number of presence packets sent on a per-chat room basis.
TCRoomPresencePacketsRecv	This counter represents the number of presence packets received on a per-chat room basis.
TCRoomIQPacketsSent	This counter represents the number of IQ packets sent on a per-chat room basis.
TCRoomIQPacketsRecv	This counter represents the number of iq packets received on a per-chat room basis.

## Cisco XCP WebCM

The following table contains information about the Cisco XCP Web Connection Manager performance counters.

*Table 83: Cisco XCP WebCM Counters*

Counter	Counter description
WebCMConnectedSockets	This counter represents the cumulative total number of connected XMPP client sessions.
WebCMFailedRequests	This counter represents the total number of failed connection requests.

## Cisco Unity Connection Counters

### CUC Data Store

The CUC Data Store object provides information about registered database usage by Cisco Unity Connection. The following table contains information about CUC Data Store counters.

*Table 84: CUC Data Store*

Counters	Counter Descriptions
Allocated Memory [kb]	Amount of database server virtual-address space [in kilobytes].
Database Connections	Total number of connections to the database server.
Disk Free (percentage)	The percentage of free space available in all chunks.
Disk Reads	Total number of disk read operations for all data chunks (rows) in the last 30 seconds.

Counters	Counter Descriptions
Disk Reads/second	Number of read operations from the disk per second.
Disk Writes	Number of write operations to the disk in the last 30 seconds.
Disk Writes/second	Number of write operations to the disk per second.
Shared Memory [kb]	Amount of database server shared memory used [in kilobytes].

## CUC Data Store: Databases

The CUC Data: Databases object provides information about the databases that Cisco Unity Connection uses.

**Table 85: CUC Data Store: Databases**

Counters	Counter Descriptions
Disk Free/chunk [kb]	The amount of free space available [in kilobytes] in the selected data chunk.
Disk Reads/chunk	Number of read operations for the selected data chunk.
Disk Writes/chunk	Number of write operations for the selected data chunk.

## CUC Digital Notifications

The CUC Digital Notifications object provides information about the total number of SMS and SMTP notifications. The following table contains information about CUC Digital Notification counters.

**Table 86: CUC Digital Notifications**

Counters	Counter Descriptions
SMS Notifications Failed	The total number of SMS notifications failing to connect.
SMS Notifications Total	The total number of SMS notifications sent to subscribers by Cisco Unity Connection.
SMTP Notifications Total	The total number of SMTP notifications that Cisco Unity Connection sent to subscribers.
HTML Notifications with Summary of voice messages	The counter to maintain count of summary notifications.
HTML Notifications with Summary of voice messages in Last One Minute	The counter to maintain count of summary notifications sent in last one minute.

Counters	Counter Descriptions
Scheduled Notifications Total	The counter to maintain count of scheduled summary notifications sent.
Scheduled Notifications in Last One Minute	The counter to maintain count of scheduled summary notifications sent in last minute.
Scheduled Notifications dropped due to Parent Schedule off	The counter to maintain count of scheduled summary notifications dropped (not sent) because the parent schedule was turned off.
Scheduled Notifications dropped due to Parent Schedule off in Last One Minute	The counter to maintain count of scheduled summary notifications dropped (not sent) in last one minute because the parent schedule was turned off.
Missed Call Notifications Total	The total number of missed call notifications sent from Cisco Unity Connection.

## CUC Directory Services

The CUC Directory Services object provides information about the performance of the directory services that Cisco Unity Connection uses.

The Directory Search Duration Average [s] counter represents the average time [in seconds] to complete a directory search request for the Cisco Unity Connection server.

## CUC Feeder

The CUC Feeder object keeps a count of total requests processed by the Feeder. The following table contains information about CUC Feeder counters.

Counters	Counter Descriptions
Total objects requests processed	The total number of HTTP[S]/CCI objects requests processed by Feeder.
Objects requests processed in last 15 minutes	The total number of HTTP[S]/CCI objects requests processed by Feeder in last 15 minutes.
Total object requests processed	The total number of HTTP[S]/CCI object requests processed by Feeder.
Object requests processed in last 15 minutes	The total number of HTTP[S]/CCI object requests processed by Feeder in last 15 minutes.

## CUC Mailbox Sync

The Mailbox Sync service synchronizes messages between Unity Connection and Exchange.



The following table contains information about Mailbox Sync counters.

<b>Counters</b>	<b>Counter Description</b>
Active thread count	Cisco Unity Connection maintains threads for synchronization of voicemail from Cisco Unity Connection to Exchange server and vice-versa. At any moment, this counter specifies the number of threads that are actively in use for voicemail synchronization.
Background queue size	Mailbox sync has three types of priority queues: Background, Normal, and Time-Sensitive. Background queue is the lowest priority queue. This queue has items that are scheduled because of background re-synchronization of each mailbox hourly.
Normal queue size	Normal queue has moderate priority. This queue has items that are scheduled because of messaging operation (such as message CREATE, READ, UNREAD, DELETE) performed by user or any configuration update by administrator on Unified Messaging page on Cisco Unity Connection Administration.
Time sensitive queue size	Time sensitive queue has highest priority. This queue has such items that are scheduled because of keep-alive message sent by Cisco Unity Connection to Exchange server to keep subscription alive. This is applicable for 2003 Exchange server only.
Total connection errors	It specifies the number of times the CuMbxSync process fails to retrieve or update some data from database.
Total Mailbox Adds	It specifies the number of times a user mailbox has been setup for subscription. Any communication error between Unity Connection and Exchange, results in user mailbox remove and re-add.
Total Mailbox Removes	It specifies the number of times a user mailbox has been setup for un-subscription. Any communication error between Unity Connection and Exchange, results in user mailbox remove and re-add.
Total Resyncs	It specifies the total number of times user mailbox is resynchronized with Exchange server. Cisco Unity Connection does background resynchronization for all the user mailboxes hourly.

Counters	Counter Description
Total Retries	Whenever there is a communication failure between Cisco Unity connection and Exchange server, Unity Connection does mailbox synchronization retry for particular user mailbox. This counter specifies the count of such occurrences.
Total Work Items	It specifies number of times any messaging operation, such as CREATE, READ, UNREAD, and DELETE, has been performed on any user mailbox.

## CUC Message Store

The CUC Message Store object provides information about the performance of the Cisco Unity Connection message store. The following table contains information about CUC Message Store counters.

**Table 87: CUC Message Store**

Counters	Counter Descriptions
Bad Mail Total	Total number of messages sent to the Bad Mail folder since the last restart of the MTA server.
Delivery Receipts Total	Total number of delivery receipts since the last restart of the MTA server.
Incoming Recalls	Number of incoming requests to recall local copies of messages initiated by remote senders on other network locations.
Intersite Messages Delivered Per Minute	Number of intersite messages delivered in the last minute.
Intersite Messages Delivered Total	Total number of intersite messages delivered since the last restart of the MTA server.
Intersite Messages Received Per Minute	Number of intersite messages received in the last minute.
Intersite Messages Received Total	Total number of intersite messages received since the last restart of the MTA server.
Intersite Messages Total	Total number of intersite messages that have been delivered and received since the last restart of the MTA server.
Local Recalls	Number of message recalls initiated by local senders on this server.
Message Size Average [kb]	The average size of the MTA at each sample in kilobytes.

<b>Counters</b>	<b>Counter Descriptions</b>
Messages Delivered Total	Total number of messages delivered since the last restart of the MTA server.
Messages Received Per Minute	Total number of messages received Per Minute by MTA.
Messages Received Total	Total number of messages received since the last restart of the MTA server.
Non-delivery Receipts Total	Total number of non-delivery receipts since the last restart of the MTA server.
Number of Items Recalled	Total number of message recalls. This number includes each individual copy of a message that was sent to multiple recipients, so this number could be much larger than the Total Recalls, Local and Remote performance counter.
Queued Messages Current	The number of messages currently queued in the MTA.
Read Receipts Total	Total number of read receipts since the last restart of the MTA server.
Retries Total	Total number of retries since the last restart of the MTA server.
Total dispatch message folder items delivered	Total number of dispatch messages that have been delivered to individual user mailboxes since the MTA started. This number includes a count of each individual copy of a message sent to multiple recipients.
Total dispatch messages accepted	Total number of dispatch messages that have been accepted since the last restart of the MTA server
Total dispatch messages delivered	Total number of dispatch messages that have been delivered since the MTA started. This number includes each message just once, regardless of the number of recipients.
Total dispatch message items rejected	Total number of individual copies of dispatch messages that have been declined since the last restart of the MTA server.
Total dispatch messages removed due to acceptance	Total number of dispatch messages that have been removed from user mailboxes due to the message being accepted by another user since the last restart of the MTA server

Counters	Counter Descriptions
Total recalls, local and remote	Total number of message recalls initiated by local and remote senders. This number should be equal to the total of Incoming Recalls and Local Recalls performance counters.
VPIM Message Decode Duration Average [s]	The average time [in seconds] to decode voice messages in MIME format to the original format.
VPIM Message Encode Duration Average [s]	The average time [in seconds] to encode voice messages to MIME format.
VPIM Messages Delivered Per Minute	The number of VPIM messages that the Cisco Unity Connection Messages Store delivered within a minute.
VPIM Messages Delivered Total	The total number of VPIM messages that the Cisco Unity Connection Messages Store delivered.
VPIM Messages Received Per Minute	The number of VPIM messages that the Cisco Unity Connection Messages Store received per minute.
VPIM Messages Received Total	The total number of VPIM messages that the Cisco Unity Connection Messages Store received.
VPIM Messages Total	The total number of VPIM messages that the Cisco Unity Connection Message Store processed.
Messages Undelivered Mailbox Quota Full Notification Total	The total number of missed call notification sent when mailbox quota is full.
Video Messages Delivered Total	The total number of video messages delivered since the last restart of the MTA server.
Video Messages Delivered Per Minute	The total number of video messages delivered per minute since the last restart of the MTA server.
Video Messages Processed by MTA Total	The total number of video messages processed (both successful and unsuccessful) by the MTA server since the last restart of the server.
Video Messages Processed by MTA Per Minute	The total number of video messages processed (both successful and unsuccessful) by the MTA server per minute since the last restart of the server.

## CUC Message Store: Databases

The CUC Message Store: Databases object provides information about the message store database that Cisco Unity Connection uses.

The Messages Delivered Per Message Store counter represents the total number of messages that were delivered per message store since the last restart of the MTA server.

## CUC Personal Call Transfer Rules

The CUC Personal Call Transfer Rules object provides information about the numbers and usage of the personal call transfer rules (PCTR). The following table contains information about CUC Personal Call Transfer Rules counters.

**Table 88: CUC Personal Call Transfer Rules**

Counters	Counter Descriptions
Applicable Rule Found	Personal call transfer rule (PCTR) call resulted in rule processing, and an applicable transfer rule is found.
Destinations Tried	Number of destinations tried while transfer rules were applied.
PCTR Calls	Calls that are subject to personal call transfer rule (PCTR) processing: user assigned COS is enabled for PCTR, user is a Unified Communications Manager user, user has not disabled PCTR.
Rules Evaluated	Number of rules that are evaluated during rule processing in a personal call transfer rule (PCTR) call.
Subscriber Reached	Number of times that a subscriber was reached while transfer rules were applied.
Transfer Failed	Number of times that Cisco Unity Connection fails to transfer a call to a destination while personal call transfer rules were applied. Transfer failures include all conditions except when the called destination is connected, busy, or RNA or times out. A caller hanging up during a transfer gets considered a transfer failure.
Voicemail Reached	Number of times that voice mail was reached while transfer rules were applied.

## CUC Phone System

The CUC Phone System object provides information about the performance of the phone system integration. The following table contains information about CUC Phone System counters.

**Table 89: CUC Phone System**

Counters	Counter Descriptions
Call Count Current	The current number of incoming and outgoing calls to the Cisco Unity Connection server.
Call Count Total	The total number of incoming and outgoing calls to the Cisco Unity Connection server.

<b>Counters</b>	<b>Counter Descriptions</b>
Call Duration Average [s]	The average duration [in seconds] of incoming and outgoing calls from the Cisco Unity Connection server.
Call Duration Total [s]	The total duration [in seconds] of incoming and outgoing calls from the Cisco Unity Connection server.
Calls Unanswered Total	The total number of unanswered calls on the Cisco Unity Connection server.
Incoming Calls CFB Current	The current number of incoming calls that were received as Call Forward Busy.
Incoming Calls CFB Total	The total number of incoming calls that were received as Call Forward Busy.
Incoming Calls CFNA Current	The current number of incoming calls that were received as Call Forward No Answer.
Incoming Calls CFNA Total	The total number of incoming calls that were received as Call Forward No Answer.
Incoming Calls Current	The current number of incoming calls.
Incoming Calls Direct Current	The current number of incoming calls that were received as direct calls.
Incoming Calls Direct Total	The total number of incoming calls that were received as direct calls.
Incoming Calls Duration Average [s]	The average duration [in seconds] of all incoming calls to the Cisco Unity Connection server.
Incoming Calls Duration Total [s]	The total duration [in seconds] of all incoming calls to the Cisco Unity Connection server.
Incoming Calls No Info Total	The total number of incoming calls without integration information.
Incoming Calls Total	The total number of incoming calls.
Message Notification Duration Average [s]	The average time [in seconds] to complete all message notifications from the Cisco Unity Connection server.
Message Notification Duration Total [s]	The total time [in seconds] to complete all message notifications from the Cisco Unity Connection server.
Message Notifications Failed	The total number of message notifications that failed to connect to a destination number.
Message Notifications Total	The total number of message notifications that Cisco Unity Connection sent to subscribers.

<b>Counters</b>	<b>Counter Descriptions</b>
MWI Request Duration Average [ms]	The average duration [in milliseconds] of all MWI requests from the Cisco Unity Connection server.
MWI Request Duration Total [ms]	The total duration [in milliseconds] of all MWI requests from the Cisco Unity Connection server.
MWI Requests Failed Total	The total number of MWI requests that failed to connect to a destination number or complete MWI operation.
MWI Requests Total	The total number of MWI requests that Cisco Unity Connection sent.
Outgoing Calls Duration Average [s]	The average duration [in seconds] of all outgoing calls from the Cisco Unity Connection server.
Outgoing Calls Duration Total [s]	The total duration [in seconds] of all outgoing calls from the Cisco Unity Connection server.
Outgoing Calls Release Transfers Completed	The number of completed release transfers from the Cisco Unity Connection server.
Outgoing Calls Release Transfers Failed	The number of release transfers from the Cisco Unity Connection server that failed to connect to a destination number.
Outgoing Calls Release Transfers Total	The total number of release transfers that were attempted from the Cisco Unity Connection server.
Outgoing Calls Supervised Transfers Completed	The number of completed supervised transfers from the Cisco Unity Connection server.
Outgoing Calls Supervised Transfers Dropped	The number of supervised transfers from the Cisco Unity Connection server that were dropped while in progress.
Outgoing Calls Supervised Transfers Failed	The number of supervised transfers from the Cisco Unity Connection server that failed to connect to a destination number.
Outgoing Calls Supervised Transfers Total	The total number of supervised transfers from the Cisco Unity Connection server.
Outgoing Calls Transfers Total	The total number of release and supervised transfers that Cisco Unity Connection attempted.
Pager Notifications Duration Average [s]	The average time [in seconds] to complete all pager notifications from the Cisco Unity Connection server.
Pager Notifications Duration Total [s]	The total time [in seconds] to complete all pager notifications from the Cisco Unity Connection server.

Counters	Counter Descriptions
Pager Notifications Failed	The total number of pager notifications that failed to connect to a destination number.
Pager Notifications Total	The total number of pager notifications that Cisco Unity Connection sent to subscribers.
Port Idle Duration [s]	The total time [in seconds] that any port remains idle between incoming calls to the Cisco Unity Connection server.
Port Idle Duration Average [s]	The average time [in seconds] that any port remains idle between incoming calls to the Cisco Unity Connection server.
Ports Idle Current	The current number of integration ports that are not in use by the Cisco Unity Connection server.
Ports In Use Current	The current number of integration ports that are in use by the Cisco Unity Connection server.
Ports Locked	The current count of the ports that no longer respond or are otherwise unusable by Cisco Unity Connection.
Missed Call Total	The total number of missed call notifications triggered by the Cisco Unity Connection server.

## CUC Phone System: Ports

The CUC Phone System: Ports object provides information about the voice messaging ports on Cisco Unity Connection. The following table contains information about CUC Phone System: Ports counters.

**Table 90: CUC Phone System: Ports**

Counters	Counter Descriptions
Port Calls	The total number of calls that were received on this port since the Cisco Unity Connection server was last restarted. This includes all types of calls: Incoming calls, MWI dialouts, Notification dialouts, TRAP dialouts, and VPIM dialouts.
Port Idle Percent	The distribution percentage of idle ports on the Cisco Unity Connection server.
Port Usage Duration Average [s]	The average time [in seconds] that a port has been actively processing calls.
Port Usage Duration Total [s]	The total time [in seconds] that a port has been actively processing calls.



Counters	Counter Descriptions
Port Usage Percent	The distribution percentage of calls into ports on the Cisco Unity Connection server.

## CUC Replication

The CUC Replication object provides information about the replication for Cisco Unity Connection redundancy. The following table contains information about CUC Replication counters.

**Table 91: CUC Replication**

Counters	Counter Descriptions
File Replication Latency [s]	How long file exists before replication starts.
File Replication Latency Max [s]	Maximum file replication latency since the service started.
File Transfer Rate [kbytes/s]	Transfer rate for each replicated file.
Files Replicated Total	Number of files replicated since the service started.
Transfer Rate [bytes/s]	Number of bytes transferred each second.

## CUC Replicator: Remote Connection Locations

The CUC Replicator: Remote Connection Locations object provides information about replication with remote Connection locations. The following table contains information about CUC Replicator: Remote Connection Locations counters.

**Table 92: CUC Replicator: Remote Connection Locations**

Counters	Counter Descriptions
Dependencies Requests Received	The number of replication dependencies requested received from the Connection location.
Dependencies Requests Sent	The number of replication dependencies requests sent to the Connection location.
Message Receive Failures	The number of replication messages from this Connection location that were not received because of failures.
Message Send Failures	The number of replication messages to the Connection location that were not sent because of failures.
Messages Received	The number of replication messages received from the Connection location.

Counters	Counter Descriptions
Messages Sent	The number of replication messages sent to the Connection location.
NDR Messages Received	The number of replication NDR messages received from the Connection location.
USN Requests Received	The number of USN request received from the Connection location. This usually indicates that a USN timeout occurred on the remote node.

## CUC Sessions: Authz Server

Table 93: CUC Sessions: Authz Server

Counters	Counter Description
CUC Authz Total Validation Requests	Total Number of Authz validation requests.
CUC Authz Successful Validation Requests	Total Number of successful Authz validations.
CUC Authz Failed Validation Requests	Total Number of failed Authz validations.
CUC Authz Total Validation Requests in Last minute	Total Number of Authz validations in Last minute.
CUC Authz Successful Validation Requests in Last minute	Total Number of successful Authz validations in last minute.
CUC Authz Failed Validation Requests in Last minute	Total Number of failed Authz validations in last minute.

## CUC Sessions: Calendar Access

The CUC Sessions: Calendar Access object provides information about the Cisco Unity Connection calendar integration. The following contains information about CUC Sessions: Calendar Access counters.

Table 94: CUC Sessions: Calendar Access

Counters	Counter Descriptions
Connections To Exchange Failure - Total	Total number of Exchange connection failures.
Connections To MP Failure - Total	Total number of MeetingPlace connection failures.
Exchange Requests - Total	Total number of Exchange calendar requests.
Exchange Response Time [ms] - Current	Current Exchange Response Time in milliseconds.
Meeting Join Request - Total	Total number of requests to join the meeting.
MP Request - Total	Total number of MeetingPlace calendar requests.

Counters	Counter Descriptions
MP Response Time [ms] - Current	Current MeetingPlace Response Time in milliseconds.

## CUC Sessions: E-Mail Access

The CUC Sessions: E-mail Access object provides information about e-mail voice sessions. The following table contains information about CUC Sessions: E-mail Access counters.

*Table 95: CUC Sessions: E-Mail Access*

Counters	Counter Descriptions
Messages Read - Total	The total number of e-mail messages that were read since the last restart of Cisco Unity Connection.
Session Duration Average [ms]	The average duration [in milliseconds] of all e-mail sessions as measured on a per-call basis.
Session Duration Total [ms]	The total duration [in milliseconds] of all e-mail sessions as measured on a per-call basis.
Sessions - Current	The number of active e-mail voice sessions.
Sessions - Total	The total number of e-mail voice sessions since the last restart of Cisco Unity Connection.

## CUC Sessions: IMAP Server

The CUC Sessions: IMAP Server object provides information about the IMAP server. The following table contains information about CUC Sessions: IMAP Server counters.

*Table 96: CUC Sessions: IMAP Server*

Counters	Counter Descriptions
Commands per minute	The number of IMAP commands per minute.
Connection Length Average [s]	The average duration [in seconds] of the connections to the IMAP server in the previous minute.
Current IDLE Sessions	The number of idle sessions on the IMAP server.
Errors Total	The total number of IMAP errors that the IMAP server returned since the last restart of the IMAP server.
EXAMINE Requests Total	The total number of EXAMINE requests to the IMAP server since the last restart of the IMAP server.
Failed Login Requests Total	The total number of failed LOGIN requests to the IMAP server since the last restart of the IMAP server.

Counters	Counter Descriptions
FETCH Requests Total	The total number of FETCH requests to the IMAP server since the last restart of the IMAP server.
Login Requests Total	The total number of LOGIN requests to the IMAP server since the last restart of the IMAP server.
Logout Requests Total	The total number of LOGOUT requests to the IMAP server since the last restart of the IMAP server.
Messages Read Total	The total number of IMAP FETCH commands that have returned the body of the a message since the IMAP was last restarted.
Messages Read/hour	The number of IMAP FETCH commands in the previous hour that returned the body of a message.
Messages/fetch Average	Average number of messages that the IMAP FETCH command returned.
NOOP Requests Total	The total number of NOOP requests to the IMAP server since the last restart of the IMAP server.
Response Time [ms]	The response time [in milliseconds] for IMAP commands.
SEARCH Requests Total	The total number of SEARCH requests to the IMAP server since the last restart of the IMAP server.
Socket Connections Current	The number of active socket connections to the IMAP server.
Socket Connections Total	The total number of socket connections that have been made to the IMAP server since it was last restarted.
STARTTLS Requests Total	The total number of STARTTLS requests to the IMAP server since the last restart of the IMAP server. This counter also increments when clients connect to the IMAP SSL port directly.
STATUS Requests Total	The total number of STATUS requests to the IMAP server since the last restart of the IMAP server.
TLS Connections Current	The number of active Transport Layer Security connections to the IMAP server.
TLS Errors Total	The total number of failed TLS connections to the IMAP server since the last restart of the IMAP server.
Unsolicited Notify Response Time Average [ms]	Average Unsolicited Notify Response Time [in milliseconds] for the IMAP server.
Unsolicited Notify Responses Total	Total number of Unsolicited Notify Responses that the IMAP server made since it was last restarted.

## CUC Sessions: RSS

The CUC Sessions: RSS object provides information about RSS sessions. The following table contains information about CUC Sessions: RSS counters.

**Table 97: CUC Sessions: RSS**

Counters	Counter Descriptions
RSS Messages Offered Total	The total number of RSS messages that were offered for streaming.
RSS Messages Streamed Total	The total number of RSS messages that the Cisco Unity Connection server streamed.
RSS Sessions Current	The current number of RSS sessions.
RSS Sessions Total	The total number of RSS sessions.

## CUC Sessions: SMTP Server

The CUC Sessions: SMTP Server object provides information about SMTP server sessions. The following table contains information about CUC Sessions: SMTP Server counters.

**Table 98: CUC Sessions: SMTP Server**

Counters	Counter Descriptions
Total Delivered Messages	The number of SMTP messages that were delivered since the start of the system.
Total Messages	The number of SMTP messages delivered or received since the start of the system.
Total Received Messages	The number of SMTP messages that were received since the start of the system.

## CUC Sessions: SpeechView Processor

The CUC Sessions: SpeechView Processor object provides information about the SpeechView Processor service. The following table contains information about CUC Sessions: SpeechView Processor counters.

**Table 99: CUC Sessions: SpeechView Processor**

Counters	Counter Descriptions
Average wait time	The average time it takes to receive successful transcriptions from the external service.
Total failures	The total number of failed transcriptions since the last restart of the SpeechView Processor service.

Counters	Counter Descriptions
Total timeouts	The total number transcriptions that timed out since the last restart of the SpeechView Processor service.
Transcribed messages	The total number successful transcriptions since the last restart of the SpeechView Processor service.

## CUC Sessions: TRaP

The CUC Sessions: TRaP object provides information about telephone record and playback (TRaP) sessions. The following table contains information about CUC Sessions: TRaP counters.

**Table 100: CUC Sessions: TRaP**

Counters	Counter Descriptions
Reverse TRaP Session Duration Average [s]	The average duration [in seconds] of all reverse TRaP sessions.
Reverse TRaP Session Duration Total [s]	The total duration [in seconds] of all reverse TRaP sessions.
Reverse TRaP Sessions Current	The current number of active reverse TRaP sessions.
Reverse TRaP Sessions Total	The total number of reverse TRaP sessions since the last start of Cisco Unity Connection.
TRaP Session Duration Average [s]	The average duration [in seconds] of all TRaP sessions.
TRaP Session Duration Total [s]	The total duration [in seconds] of all TRaP sessions.
TRaP Sessions Current	The current number of active TRaP sessions.
TRaP Sessions Total	The total number of TRaP sessions since the last start of Cisco Unity Connection.

## CUC Sessions: TTS

The CUC Sessions: TTS object provides information about text-to-speech (TTS) sessions. The following table contains information about CUC Sessions: TTS counters.

**Table 101: CUC Sessions: TTS**

Counters	Counter Descriptions
Session Duration Average [s]	The average duration [in seconds] of all TTS sessions.
Session Duration Total [s]	The total duration [in seconds] of all TTS sessions.
Sessions Current	The current number of active TTS voice sessions.

Counters	Counter Descriptions
Sessions Total	The total number of TTS voice sessions since the last start of Cisco Unity Connection.

## CUC Sessions: Unified Client

The CUC Sessions: Unified Client object provides information about the Unified Client for Cisco Unity Connection.

The Connections Total counter represents the total number of Unified Client IMAP requests.

## CUC Sessions: Video

CUC Sessions Video: Video session object provides information about video sessions with video server. The following table contains information about CUC Sessions: Video

**Table 102: CUC Sessions: Video**

Counters	Counter Descriptions
Audio calls Negotiated Total	The total number of Audio calls negotiated despite video offer.
Audio Calls Negotiated In Last One Minute	The total number of audio calls negotiated despite video offer in last one minute.
Outgoing Video calls Release Transfer	The total number of outgoing video calls transferred as Release to Switch.
Supervise Transfer Calls Total	The total number of Supervise transfers initiated from video calls since the last restart of Cisco Unity Connection.
Video calls downgraded to Audio Total	The total number of video calls downgraded to audio since the last restart of Unity Connection.
Video calls downgraded to Audio In Last One Minute	The total number of video calls downgraded to audio in last one minute.
Video calls downgraded with prompt total	Total number of video calls downgraded with prompt "Video services are not available using audio only for duration of this call".
Video calls downgraded with prompt in Last One Minute	Total number of video calls downgraded with prompt "Video services are not available using audio only for duration of this call" in last minute.
Video Sessions Total	The total number of video session requests sent from Unity Connection to Video Server.

<b>Counters</b>	<b>Counter Descriptions</b>
Video Sessions Current	The total number of current video session requests sent from Unity Connection to Video Server.
Video Session Playbacks Total	The total number of video session playbacks since the last restart of Cisco Unity Connection.
Video Session Playbacks Current	The total number of current video session playbacks.
Video Media File Playbacks Total	The total number of image playbacks from video server since the last restart of Unity Connection.
Video Media File Playbacks Current	The current number of Video Media File playbacks from video server.
Video Recordings Total	The total number of Video Recordings saved at video server since the last restart of Unity Connection.
Video Recordings Current	The current number of Video Recordings saved at video server.
Video Playback Completed Events from MS Total	The total number of Video Playback completed events from video server since the last restart of Unity Connection.
Video Playback Completed Events from MS In Last One Minute	The total number of Video Playback completed events from video server since last one minute.
Video Keep Alive Total	The total number of Keep Alive sent by Unity Connection to video server since the last restart of Unity Connection.
Video Keep Alive In Last One Minute	The total number of Keep Alive sent by Unity Connection to video server since last one minute.
Video Get Media Capabilities Total	The total number of GetMediaCapabilities sent by Unity Connection to video server since the last restart of Unity Connection.
Video Get Media Capabilities In Last One Minute	The total number of GetMediaCapabilities sent by Unity Connection to video server since last one minute.
Video SignIn Total	The total number of SignIn request sent by Unity Connection to video server since the last restart of Unity Connection.
Video SignIn Total In Last One Minute	The total number of SignIn sent by Unity Connection to video server since last one minute.
KeyFrame Request sent Total	The total number of KeyFrame requests sent during video recording to EndPoint since the last restart of Cisco Unity Connection.



Counters	Counter Descriptions
KeyFrame Request sent In Last One Minute	The total number of KeyFrame requests sent during video recording to EndPoint since the last restart of Cisco Unity Connection.
Video Record Successful Total	The total number of successful Video Recordings since the last restart of Cisco Unity Connection.
Video Sessions Failed Total	The total number of video sessions failed since the last restart of Cisco Unity Connection.
Video Session Failed In Last One Minute	The total number of video sessions failed in last one minute.
Media Sense Timeout Total	The total number of connection timeout errors while connecting to MediaSense server since the last restart of Cisco Unity Connection. This counter is applicable for the following events: <ul style="list-style-type: none"> <li>• During a video call</li> <li>• At the time of sign in</li> <li>• During exchange of media capabilities with the MediaSense server.</li> </ul>
Video Play Failed Total	The total number of video messages that are played as audio messages since the last restart of Cisco Unity Connection.

## CUC Sessions: Voice

The CUC Sessions: Voice object provides information about voice sessions. The following table contains information on CUC Sessions: Voice counters.

**Table 103: CUC Sessions: Voice**

Counters	Counter Descriptions
Delay - Directory Search [ms]	The delay [in milliseconds] that a caller experienced when the caller attempted to search through the directory. This counter measures the time between the entered search criteria and the return results.
Delay - Opening Greeting [ms]	The delay [in milliseconds] that a caller experienced before any audio was received. This counter measures the time between the system receiving a call and the time audio begins streaming to the caller.

<b>Counters</b>	<b>Counter Descriptions</b>
Delay - Subscriber Delete Message [ms]	The delay [in milliseconds] that a Cisco Unity Connection subscriber experienced when the subscriber attempted to delete a message. This counter measures the time between the last delete message prompt and the confirmation of the deletion.
Delay - Subscriber Logon [ms]	The delay [in milliseconds] that a Cisco Unity Connection subscriber experienced due to authentication.
Delay - Subscriber Message Count [ms]	The delay [in milliseconds] that a Cisco Unity Connection subscriber experienced during message counting in the subscriber message box.
Delay - Subscriber Message Header [ms]	The delay [in milliseconds] that a caller experienced while Cisco Unity Connection is gathering message header information.
Failsafes Total	The total number of times that the failsafe conversation has been played.
G.711a Sessions Current	The current number of active G.711 (a-law) voice sessions.
G.711a Sessions Total	The total number of active G.711 (a-law) voice sessions since the last restart of Cisco Unity Connection.
G.711u Sessions Current	The current number of active G.711 (u-law) voice sessions.
G.711u Sessions Total	The total number of active G.711 (u-law) voice sessions since the last restart of Cisco Unity Connection.
G.722 Sessions Current	The current number of active G.722 voice sessions.
G.722 Sessions Total	The total number of active G.722 voice sessions since the last restart of Cisco Unity Connection.
G.729 Sessions Current	The current number of active G.729 voice sessions.
G.729 Sessions Total	The total number of active G.729 voice sessions since the last restart of Cisco Unity Connection.
iLBC Sessions Current	The current number of active iLBC voice sessions.
iLBC Sessions Total	The total number of active iLBC voice sessions since the last restart of Cisco Unity Connection.

Counters	Counter Descriptions
Meeting search delay delay [ms]	The delay [in milliseconds] that a Cisco Unity Connection subscriber experienced due to looking up meetings.
Messages Deleted	The total number of voice messages that were deleted through the TUI from the time Cisco Unity Connection was last restarted.
Messages Forwarded	The total number of voice messages that were forwarded through the TUI from the time Cisco Unity Connection was last restarted.
Messages Read	The total number of voice messages that were read through the TUI from the time Cisco Unity Connection was last restarted.
Messages Replied	The total number of voice messages that received replies through the TUI from the time Cisco Unity Connection was last restarted.
Messages Sent	The total number of voice messages that were sent through the TUI from the time Cisco Unity Connection was last restarted.
MRCP Define Grammar Delay [ms]	The delay [in milliseconds] between an MRCP define-grammar request and its response.
MRCP Define Grammar Delay Average [ms]	The average delay [in milliseconds] between an MRCP define-grammar request and its response.
MRCP Define Grammar Delay Max [ms]	The maximum delay [in milliseconds] between an MRCP define-grammar request and its response.
MRCP Delay [ms]	The delay [in milliseconds] between an MRCP request and its response.
MRCP Delay Average [ms]	The average delay [in milliseconds] between an MRCP request and its response.
MRCP Delay Max [ms]	The maximum delay [in milliseconds] between an MRCP request and its response.
OPUS Sessions Current	This displays the current number of active OPUS voice sessions.
OPUS Sessions Total	This displays the total number of OPUS voice sessions since the last restart of Cisco Unity Connection.
Sessions Current	The current number of all active voice sessions for any codec.

Counters	Counter Descriptions
Sessions Total	The total number of voice sessions for any codec - G.711 mu-law and G.729 - since the last restart of Cisco Unity Connection.
Subscriber Lookup Delay [ms]	The delay [in milliseconds] that a Cisco Unity Connection subscriber experienced due to finding and loading a subscriber by DTMF ID.

## CUC Sessions: VUI

The CUC Sessions: VUI object provides information about the voice user interface (VUI). The following table contains information on CUC Sessions: VUI counters.

**Table 104: CUC Sessions: VUI**

Counter	Counter Descriptions
Delay - Subscriber Message Access [ms]	The delay [in milliseconds] that a user when experienced when the user attempted to access a message. This counter measures the time between the voice command of intending to listen to a message and the actual playback of the message.
Matches Total	The total number of matches in the VUI conversation.
Messages Read	The total number of messages that were read through the VUI from the time that Cisco Unity Connection was last restarted.
No-matches Total	The total number of no-matches in the VUI conversation.
Session Duration Average/call [s]	The average duration [in seconds] of a VUI session as measured on a per-call basis.
Session Duration Total [s]	The duration [in seconds] of all VUI sessions.
Sessions Current	The current number of active VUI sessions for any codec.
Sessions Total	The total number of VUI and voice sessions for any codec.

## CUC Sessions: Web

The CUC Sessions: Web object provides information about the Cisco Personal Communications Assistant (Cisco PCA) and Cisco Unity Connection Administration sessions. The following table contains information on CUC Sessions: Web counters.

Table 105: CUC Sessions: Web

Counters	Counter Descriptions
CPCA Authentication Delay Max [s]	The maximum delay [in seconds] in authentication to a user Inbox or Assistant.
CPCA Failed Authentications Total	The number of failed authentications.
CPCA Pages Served Total	The total number of CPCA pages that the Cisco Unity Connection server served.
CPCA Requests In Queue Current	The number of requests in CPCA queue waiting to be processed.
CPCA Server Busy Pages Total	The total number of server busy pages that the Cisco Unity Connection server returned.
CPCA Sessions Current	The current number of CPCA sessions.
CPCA Sessions Total	The total number of CPCA sessions.
CUCA Authentication Delay Max [s]	The maximum delay [in seconds] in authentication to the System Administrator window.
CUCA Response Time Max [ms]	The maximum time [in milliseconds] for the Tomcat server to respond to any given request.

## CUC Sessions: Web E-Mail Access

The CUC Sessions: Web E-mail Access object provides information about web e-mail access sessions (IMAP). The following table contains information about CUC Sessions: Web E-mail Access counters.

Table 106: CUC Sessions: Web E-Mail Access

Counters	Counter Descriptions
Messages Read - Total	The total number of e-mail messages that were read since the last restart of Cisco Unity Connection.
Session Duration Average [ms]	The average duration [in milliseconds] of all e-mail sessions as measured on a per-call basis.
Session Duration Total [ms]	The total duration [in milliseconds] of all e-mail sessions as measured on a per-call basis.
Sessions - Current	The number of active e-mail voice sessions.
Sessions - Total	The total number of e-mail voice sessions since the last restart of Cisco Unity Connection.

## CUC System Agent

The CUC System Agent object records the information about the periodic system tasks. The following table contains information about CUC System Agent counters.

Counters	Counter Descriptions
Message Related Files Shredded Total	The total number of messaging related files that have been shredded.
Message Related Files Shredded Failed	The total number of messaging related files that have failed to shred.
Total Number of Requests sent by HTTP[S]/CCI Link	The cumulative number of HTTP(S) requests sent by the Reader.
Total Number of successful response of HTTP[S]/CCI Requests	The cumulative number of HTTP(S) requests that were successfully processed by the Feeder.
Total Number of failure response of HTTP[S]/CCI Requests	The cumulative number of HTTP(S) requests that were not successfully processed by the Feeder.
Total Number of Directory Objects Successfully Processed	The cumulative number of Directory Objects that were successfully processed.
Directory Objects Processed Successfully In Last One Minute	Directory objects successfully processed per minute.
Delete Request sent to Media Sense Total	The total number of delete requests sent to MediaSense server since the last restart of Unity Connection.
Media Sense Timeout While Delete Total	The total number of connection timeouts in response to the delete requests sent to MediaSense server since the last restart of Unity Connection.

## System Alerts

### AuthenticationFailed

Authentication validates the user ID and password that are submitted during log in. An alarm gets raised when an invalid user ID and/or the password gets used.

#### Default Configuration

*Table 107: Default Configuration for the AuthenticationFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected

Value	Default Configuration
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Number of AuthenticationFailed events exceeds: 1 time in the last 1 minute
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoDRFFailure

This alert occurs when the DRF backup or restore process encounters errors.

### Default Configuration

*Table 108: Default Configuration for the CiscoDRFFailure RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoDRFFailure event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CoreDumpFileFound

This alert occurs when the CoreDumpFileFound event gets generated. This indicates that a core dump file exists in the system.

### Default Configuration

*Table 109: Default Configuration for the CoreDumpFileFound RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CoreDumpFileFound event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Trace download Parameters	Not Selected
Enable Email	Selected
Trigger Alert Action	Default

## CpuPegging

CPU usage gets monitored based on configured thresholds. If the usage goes above the configured threshold, this alert gets generated.

### Default Configuration

*Table 110: Default Configuration for the CpuPegging RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: 99%



Value	Default Configuration
Duration	Trigger alert only when value constantly below or over threshold for 60 seconds
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CriticalServiceDown

The CriticalServiceDown alert gets generated when the service status equals down (not for other states).

### Default Configuration

*Table 111: Default Configuration for the CriticalServiceDown RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Service status is DOWN
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Trace download Parameters	Enable Trace Download not selected
Enable Email	Selected
Trigger Alert Action	Default

## DBChangeNotifyFailure

This alert occurs when the Cisco Database Notification Service experiences problems and might stop. This condition indicates change notification requests that are queued in the database got stuck and changes made to the system will not take effect. Ensure that the Cisco Database Layer Monitor is running on the node where the alert exists. If it is, restart the service. If that does not return this alert to safe range, collect the output of **show tech notify** and **show tech dbstateinfo** and contact TAC for information about how to proceed.

## Default Configuration

**Table 112: Default Configuration for the DBChangeNotifyFailure RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: DBChangeNotify queue delay over 2 minutes
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## DBReplicationFailure

This alarm indicates a failure in IDS replication and requires database administrator intervention.



**Note** Be aware that DBReplicationFailure is based on the replication status perfmon counter (instead of DBReplicationFailure alarm as was previously the case). This alert gets triggered whenever the corresponding replication status perfmon counter specifies a value of **3** (Bad Replication) or **4** (Replication Setup Not Successful).

## Default Configuration

**Table 113: Default Configuration for the DBReplicationFailure RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: DBReplicationFailure occurred
Duration	Trigger alert immediately

Value	Default Configuration
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## DBReplicationTableOutOfSync

### Default Configuration

*Table 114: Default Configuration for the DBReplicationTableOutOfSync RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: IDSReplicationFailure event with alarm number 888 generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## HardwareFailure

This alert occurs when a hardware failure event (disk drive failure, power supply failure, and others) has occurred.

### Default Configuration

*Table 115: Default Configuration for the HardwareFailure RTMT Alert*

Value	Default Configuration
Enable Alert	Selected

Value	Default Configuration
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: HardwareFailure event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LogFileSearchStringFound

This alert occurs when the LogFileSearchStringFound event gets generated. This indicates that the search string was found in the log file.

### Default Configuration

*Table 116: Default Configuration for the LogFileSearchStringFound RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: LogFileSearchStringFound event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LogPartitionHighWaterMarkExceeded

This alert occurs when the percentage of used disk space in the log partition exceeds the configured high water mark. When this alert gets generated, LPM deletes files in the log partition (down to low water mark) to avoid running out of disk space.



**Note** LPM may delete files that you want to keep. You should act immediately when you receive the LogPartitionLowWaterMarkExceeded alert.

### Default Configuration

*Table 117: Default Configuration for the LogPartitionHighWaterMarkExceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Log Partition Used Disk Space Exceeds High Water Mark (95%)
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LogPartitionLowWaterMarkExceeded

This alert occurs when the LogPartitionLowWaterMarkExceeded event gets generated. This indicates that the percentage of used disk space in the log partition has exceeded the configured low water mark.



**Note** Be aware that this alert is an early warning. The administrator should start freeing up disk space. Using RTMT/TLC, you can collect trace/log files and delete them from the server. The administrator should adjust the number of trace files that are kept to avoid hitting the low water mark again.

### Default Configuration

**Table 118: Default Configuration for the LogPartitionLowWaterMarkExceeded RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Log Partition Used Disk Space Exceeds Low Water Mark (90%)
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LowActivePartitionAvailableDiskSpace

This alert occurs when the percentage of available disk space on the active partition is lower than the configured value.

### Default Configuration

**Table 119: Default Configuration for the LowActivePartitionAvailableDiskSpace RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Active Partition available disk space below (4%)
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected

Value	Default Configuration
Trigger Alert Action	Default

## LowAvailableVirtualMemory

RTMT monitors virtual memory usage. When memory runs low, a LowAvailableVirtualMemory alert is generated.

### Default Configuration

*Table 120: Default Configuration for the LowAvailableVirtualMemory RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Available virtual memory below (15%)
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LowInactivePartitionAvailableDiskSpace

This alert occurs when the percentage of available disk space of the inactive partition equals less than the configured value.

### Default Configuration

*Table 121: Default Configuration for the LowInactivePartitionAvailableDiskSpace RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: Inactive Partition available disk space below (4%)
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LowSwapPartitionAvailableDiskSpace

This alert indicates that the available disk space on the swap partition is low.



### Note

The swap partition is part of virtual memory, so low available swap partition disk space means low virtual memory as well.

### Default Configuration

**Table 122: Default Configuration for the LowSwapPartitionAvailableDiskSpace RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Swap Partition available disk space below (10%)
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default



## ServerDown

This alert occurs when a remote node cannot be reached.



**Note** Unified Communications Manager and IM and Presence Service: The ServerDown alert is generated when the currently active AMC (primary AMC or the backup AMC, if the primary is not available) cannot reach another server in a cluster. This alert identifies network connectivity issues in addition to a server down condition.

### Default Configuration

*Table 123: Default Configuration for the ServerDown RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: ServerDown occurred
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## SparePartitionHighWaterMarkExceeded

This alert occurs when the SparePartitionHighWaterMarkExceeded event gets generated. This indicates that the percentage of used disk space in the spare partition exceeds the configured high water mark.

### Default Configuration

*Table 124: Default Configuration for the SparePartitionHighWaterMarkExceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: Spare Partition Used Disk Space Exceeds High Water Mark (95%)
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## SparePartitionLowWaterMarkExceeded

This alert occurs when the SparePartitionLowWaterMarkExceeded event gets generated. This indicates that the percentage of used disk space in the spare partition has exceeded the low water mark threshold.

### Default Configuration

*Table 125: Default Configuration for the SparePartitionLowWaterMarkExceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Spare Partition Used Disk Space Exceeds Low Water Mark (90%)
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## SyslogSeverityMatchFound

This alert occurs when the SyslogSeverityMatchFound event gets generated. This indicates that a syslog message with the matching severity level exists.

## Default Configuration

*Table 126: Default Configuration for the SyslogSeverityMatchFound RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: SyslogSeverityMatchFound event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Syslog Severity Parameters	Critical
Enable Email	Selected
Trigger Alert Action	Default

## SyslogStringMatchFound

This alert occurs when the SyslogStringMatchFound event gets generated. The alert indicates that a syslog message with the matching search string exists.

## Default Configuration

*Table 127: Default Configuration for the SyslogStringMatchFound RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: SyslogStringMatchFound event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily

Value	Default Configuration
Syslog Alert Parameters	(Text box for search string)
Enable Email	Selected
Trigger Alert Action	Default

## SystemVersionMismatched

This alert occurs when a mismatch in system version exists.

### Default Configuration

*Table 128: Default Configuration for the SystemVersionMismatched RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: SystemVersionMismatched occurred
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## TotalProcessesAndThreadsExceededThreshold

This alert occurs when the TotalProcessesAndThreadsExceededThreshold event gets generated. The alert indicates that the current total number of processes and threads exceeds the maximum number of tasks that are configured for the Cisco RIS Data Collector Service Parameter. This situation could indicate that a process is leaking or that a process has thread leaking.

### Default Configuration

*Table 129: Default Configuration for the TotalProcessesAndThreadsExceededThreshold RTMT Alert*

Value	Default Configuration
Enable Alert	Selected

Value	Default Configuration
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: TotalProcessesAndThreadsExceededThreshold event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## Voice and Video Alerts

### BeginThrottlingCallListBLFSubscriptions

This alert occurs when the BeginThrottlingCallListBLFSubscriptions event gets generated. This indicates that the Unified Communications Manager initiated a throttling of the CallList BLF Subscriptions to prevent a system overload.

#### Default Configuration

*Table 130: Default Configuration for the BeginThrottlingCallListBLFSubscriptions RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: BeginThrottlingCallListBLFSubscriptions event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily

Value	Default Configuration
Enable Email	Selected
Trigger Alert Action	Default

## CallAttemptBlockedByPolicy

### Default Configuration

*Table 131: Default Configuration for the CallAttemptBlockedByPolicy RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CallAttemptBlockedByPolicy event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CallProcessingNodeCpuPegging

This alert occurs when the percentage of CPU load on a call processing server exceeds the configured percentage for the configured time.

If the administrator takes no action, high CPU pegging can lead to a Unified Communications Manager crash, especially in CallManager service. The CallProcessingNodeCpuPegging alert gives you time to work proactively to avoid a crash.

During CPU usage spikes, other alarms that may be issued in addition to the CallProcessingNodeCpuPegging alert include: CoreDumpFound, CriticalServiceDown, SDLLinkOutOfService, and NumberOfRegisteredPhonesDropped alarms.



**Note** Unified Communications Manager VMware installations can experience high CPU usage spikes while performing tasks such as DRF backups and Bulk Administration Tool exports. The processes that are commonly responsible for CPU usage spikes are gzip and DRFLocal.

If your system is generating CallProcessingNodeCpuPegging alarms, add an additional vCPU for the support of 7500 Unified Communications Manager users following the Open Virtualization Archives (OVA) template specifications for your system.

### Default Configuration

*Table 132: Default Configuration for the CallProcessingNodeCpuPegging RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Processor load over (90%)
Duration	Trigger alert only when value constantly below or over threshold for 60 seconds
Frequency	Trigger up to 3 alerts within 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CARIDSEngineCritical

### Default Configuration

*Table 133: Default Configuration for the CARIDSEngineCritical RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: CARIDSEngineCritical event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CARIDSEngineFailure

### Default Configuration

*Table 134: Default Configuration for the CARIDSEngineFailure RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CARIDSEngineFailure event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default



## CARSchedulerJobFailed

### Default Configuration

*Table 135: Default Configuration for the CARSchedulerJobFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CARSchedulerJobFailed event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CDRAgentSendFileFailed

This alert gets raised when the CDR Agent cannot send CDR files from a Unified Communications Manager node to a CDR repository node within the Unified Communications Manager cluster.

### Default Configuration

*Table 136: Default Configuration for the CDRAgentSendFileFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CDRAgentSendFileFailed event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily

Value	Default Configuration
Enable Email	Selected
Trigger Alert Action	Default

## CDRFileDeliveryFailed

This alert gets raised when FTP delivery of CDR files to the outside billing server fails.

### Default Configuration

*Table 137: Default Configuration for the CDRFileDeliveryFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CDRFileDeliveryFailed event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CDRHighWaterMarkExceeded

This alert gets raised when the high water mark for CDR files gets exceeded. It also indicates that some successfully delivered CDR files got deleted.

### Default Configuration

*Table 138: Default Configuration for the CDRHighWaterMarkExceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: CDRHighWaterMarkExceeded event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CDRMaximumDiskSpaceExceeded

This alarm gets raised when the CDR files disk usage exceeds the maximum disk allocation. It also indicates that some undelivered files got deleted.

### Default Configuration

*Table 139: Default Configuration for the CDRMaximumDiskSpaceExceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CDRMaximumDiskSpaceExceeded event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoElmNotConnected

### Default Configuration

*Table 140: Default Configuration for the CiscoElmNotConnected RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoElmNotConnected event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoGraceTimeLeft

### Default Configuration

*Table 141: Default Configuration for the CiscoGraceTimeLeft RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Informational
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoGraceTimeLeft event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected

Value	Default Configuration
Trigger Alert Action	Default

## CiscoNoProvisionTimeout

### Default Configuration

*Table 142: Default Configuration for the CiscoNoProvisionTimeout RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoNoProvisionTimeout event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoSystemInDemo

### Default Configuration

*Table 143: Default Configuration for the CiscoSystemInDemo RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoSystemInDemo event generated.
Duration	Trigger alert immediately

Value	Default Configuration
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoSystemInOverage

### Default Configuration

*Table 144: Default Configuration for the CiscoSystemInOverage RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: CiscoSystemInOverage event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CiscoSystemSecurityMismatch

### Default Configuration

*Table 145: Default Configuration for the CiscoSystemSecurityMismatch RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: CiscoSystemSecurityMismatch event generated.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## CodeYellow

The AverageExpectedDelay counter represents the current average expected delay to handle any incoming message. If the value exceeds the value that is specified in Code Yellow Entry Latency service parameter, the CodeYellow alarm gets generated. You can configure the CodeYellow alert to download trace files for troubleshooting purposes.

### Default Configuration

*Table 146: Default Configuration for the CodeYellow RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cisco CallManager CodeYellowEntry event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Trace Download Parameters	Enable Trace Download not selected
Enable Email	Selected
Trigger Alert Action	Default

## DDRBlockPrevention

This alert gets triggered when the IDSReplicationFailure alarm with alarm number 31 occurs, which invokes a proactive procedure to avoid denial of service. This procedure does not impact call processing; you can ignore replication alarms during this process.

The procedure takes up to 60 minutes to finish. Check that RTMT replication status equals 2 on each node to make sure that the procedure is complete. Do not perform a system reboot during this process.

### Default Configuration

*Table 147: Default Configuration for the DDRBlockPrevention RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: IDSReplicationFailure alarm with alarm number 31 generated
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## DDRDown

This alert gets triggered when the IDSReplicationFailure alarm with alarm number 32 occurs. An auto recover procedure runs in the background and no action is needed.

The procedure takes about 15 minutes to finish. Check that RTMT replication status equals 2 on each node to make sure the procedure is complete.

### Default Configuration

*Table 148: Default Configuration for the DDRDown RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical



Value	Default Configuration
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: IDSReplicationFailure alarm with alarm number 32 generated
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## EMCCFailedInLocalCluster

### Default Configuration

*Table 149: Default Configuration for the EMCCFailedInLocalCluster RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: EMCCFailedInLocalCluster event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## EMCCFailedInRemoteCluster

### Default Configuration

*Table 150: Default Configuration for the EMCCFailedInRemoteCluster RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: EMCCFailedInRemoteCluster event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## ExcessiveVoiceQualityReports

This alert gets generated when the number of QRT problems that are reported during the configured time interval exceed the configured value. The default threshold specifies 0 within 60 minutes.

### Default Configuration

*Table 151: Default Configuration for the ExcessiveVoiceQualityReports RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Number of quality reports exceeds 0 times within the last 60 minutes
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll

Value	Default Configuration
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## ILSHubClusterUnreachable

### Default Configuration

*Table 152: Default Configuration for the ILSHubClusterUnreachable RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: A connection to the remote ILS server could not be established.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## ILSPwdAuthenticationFailed

### Default Configuration

*Table 153: Default Configuration for the ILSPwdAuthenticationFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: Password Authentication Failure with ILS at remote cluster.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## ILSTLSAuthenticationFailed

### Default Configuration

*Table 154: Default Configuration for the ILSTLSAuthenticationFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: TLS Failure to ILS at remote cluster.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMEDistributedCacheInactive

This alarm gets generated when a Unified Communications Manager attempts to connect to the Cisco IME server, but the IME distributed cache is not currently active.

Ensure that the certificate for the Cisco IME server is provisioned and that the IME distributed cache has been activated through the CLI.

## Default Configuration

**Table 155: Default Configuration for the IMEDistributedCacheInactive Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Inactive IME Distributed Cache
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMEOverQuota

This alert indicates that the Unified Communications Manager servers that use this Cisco IME service have exceeded the quota for published direct inward dialing numbers (DIDs) to the IME distributed cache. The alert includes the name of the Cisco IME server as well as the current and target quota values.

Ensure that you have correctly provisioned the DID prefixes on all of the Unified Communications Manager servers that use this Cisco IME service.

If you have provisioned the prefixes correctly, you have exceeded the capacity of your Cisco IME service, and you need to configure another service and divide the DID prefixes across the Cisco IME client instances (Unified Communications Managers) on different Cisco IME services.

## Default Configuration

**Table 156: Default Configuration for the IMEOverQuota Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: VAP over quota

Value	Default Configuration
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMEQualityAlert

This alert gets generated when Unified Communications Manager determines that a substantial number of Cisco IME calls fail back to PSTN or fail to be set up due to IP network quality problems. Two types of events trigger this alert:

- A large number of the currently active Cisco IME calls have all requested fallback or have fallen back to the PSTN.
- A large number of the recent call attempts have gone to the PSTN and not been made over IP.

When you receive this alert, check your IP connectivity. If no problems exist with the IP connectivity, you may need to review the CDRs, CMRs, and logs from the firewalls to determine why calls have fallen back to the PSTN or have not been made over IP.

### Default Configuration

*Table 157: Default Configuration for the IMEQualityAlert Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cisco IME link quality problem
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMEServiceStatus

This alert indicates the overall health of the connection to the Cisco IME services for a particular Cisco IME client instance (Unified Communications Manager). The alert indicates the following states:

- 0—Unknown. Likely indicates that the Cisco IME service has not been activated.
- 1—Healthy. Indicates that the Unified Communications Manager has successfully established a connection to its primary and backup servers for the Cisco IME client instance, if configured.
- 2—Unhealthy. Indicates that the Cisco IME has been activated but has not successfully completed handshake procedures with the Cisco IME server. Note that this counter reflects the handshake status of both the primary and the secondary IME servers.

### Default Configuration

*Table 158: Default Configuration for the IMEServiceStatus Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: VAP Connection Problem
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert every 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## InsufficientFallbackIdentifiers

This alert gets generated when too many Cisco IME calls that are currently in progress use the same fallback DID and no more DTMF digit sequences exist to allocate to a new Cisco IME call that Unified Communications Manager is processing. The new call continues, but the call cannot fallback to the PSTN if voice-quality deteriorates.

If this alert gets generated, note the fallback profile that associates with this call. Check that profile in Cisco Unified Communications Manager Administration, and examine the current setting for the “Fallback Number of Correlation DTMF Digits” field. Increase the value of that field by one, and check whether the new value eliminates these alerts. In general, this parameter should be large enough so that the number of simultaneous Cisco IME calls that are made to enrolled numbers that associate with that profile is always substantially less than 10 raised to the power of this number. For example, if you always have fewer than 10,000 simultaneous

Cisco IME calls for the patterns that associate with this fallback profile, setting this value to 5 (10 to the power of 5 equals 100,000) should keep Unified Communications Manager from generating this alert.

However, increasing this value results in a small increase in the amount of time it takes to perform the fallback. As such, you should set the “Fallback Number of Correlation DTMF Digits” field to a value just large enough to prevent this alert from getting generated.

Instead of increasing the value of the DTMF digits field, you can add another fallback profile with a different fallback DID and associate that fallback profile with a smaller number of enrolled patterns. If you use this method, you can use a smaller number of digits.

### Default Configuration

**Table 159: Default Configuration for the InsufficientFallbackIdentifiers Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cannot allocate fallback identifier
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alerts within one minute
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## InvalidCredentials

The alert indicates that the Unified Communications Manager cannot connect to the Cisco IME server because the username and/or password configured on Unified Communications Manager do not match those configured on the Cisco IME server.

The alert includes the username and password that were used to connect to the Cisco IME server as well as the IP address and name of the target Cisco IME server. To resolve this alert, log into the Cisco IME server and check that the configured username and password match the username and password that are configured in Unified Communications Manager.



## Default Configuration

**Table 160: Default Configuration for the InvalidCredentials Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Credential Failure to Cisco IME server
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LocationOutOfResource

This alert occurs when the number of LocationOutOfResource events exceeds the configured threshold during the configured time interval. This indicates that one or all of audio or video or immersive bandwidth for a location or link is used up.

### Default Configuration

**Table 161: Default Configuration for the LocationOutOfResource Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: LocationOutOfResource event generated 5 times within 60 seconds
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily

Value	Default Configuration
Enable Email	Selected
Trigger Alert Action	Default

## MaliciousCallTrace

This indicates that a malicious call exists in Unified Communications Manager. The malicious call identification (MCID) feature gets invoked.

### Default Configuration

*Table 162: Default Configuration for the MaliciousCallTrace RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Malicious call trace generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## MediaListExhausted

This alert occurs when the number of MediaListExhausted events exceeds the configured threshold during the configured time interval. This indicates that all available media resources that are defined in the media list are busy. The default specifies 0 within 60 minutes.

### Default Configuration

*Table 163: Default Configuration for the MediaListExhausted RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning

Value	Default Configuration
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Number of MediaListExhausted events exceeds 0 times within the last 60 minutes
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## MgcpDChannelOutOfService

This alert gets triggered when the BRI D-Channel remains out of service.

### Default Configuration

*Table 164: Default Configuration for the MgcpDChannelOutOfService RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: MGCP DChannel is out-of-service
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## NumberOfRegisteredDevicesExceeded

This alert occurs when the NumberOfRegisteredDevicesExceeded event gets generated.

### Default Configuration

**Table 165: Default Configuration for the NumberOfRegisteredDevicesExceeded RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: NumberOfRegisteredDevicesExceeded event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## NumberOfRegisteredGatewaysDecreased

This alert occurs when the number of registered gateways in a cluster decreases between consecutive polls.

### Default Configuration

**Table 166: Default Configuration for the NumberOfRegisteredGatewaysDecreased RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Number of registered gateway decreased
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected

Value	Default Configuration
Trigger Alert Action	Default

## NumberOfRegisteredGatewaysIncreased

This alert occurs when the number of registered gateways in the cluster increased between consecutive polls.

### Default Configuration

*Table 167: Default Configuration for the NumberOfRegisteredGatewaysIncreased RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Threshold	Trigger alert when following condition met: Number of registered gateways increased
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## NumberOfRegisteredMediaDevicesDecreased

This alert occurs when the number of registered media devices in a cluster decreases between consecutive polls.

### Default Configuration

*Table 168: Default Configuration for the NumberOfRegisteredMediaDevicesDecreased RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Threshold	Trigger alert when following condition met: Number of registered media devices decreased
Duration	Trigger alert immediately

Value	Default Configuration
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## NumberOfRegisteredMediaDevicesIncreased

This alert occurs when the number of registered media devices in a cluster increases between consecutive polls.

### Default Configuration

*Table 169: Default Configuration for the NumberOfRegisteredMediaDevicesIncreased RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Threshold	Trigger alert when following condition met: Number of registered media devices increased
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## NumberOfRegisteredPhonesDropped

This alert occurs when the number of registered phones in a cluster drops more than the configured percentage between consecutive polls.

### Default Configuration

*Table 170: Default Configuration for the NumberOfRegisteredPhonesDropped RTMT Alert*

Value	Default Configuration
Enable Alert	Selected

Value	Default Configuration
Severity	Critical
Threshold	Trigger alert when following condition met: Number of registered phones in the cluster drops (10%)
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RecordingCallSetupFail

### Default Configuration

*Table 171: Default Configuration for the RecordingCallSetupFail RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingCallSetupFail event(s) generated
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RecordingGatewayRegistrationRejected

### Default Configuration

*Table 172: Default Configuration for the RecordingGatewayRegistrationRejected RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingGatewayRegistrationRejected event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RecordingGatewayRegistrationTimeout

### Default Configuration

*Table 173: Default Configuration for the RecordingGatewayRegistrationTimeout RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingGatewayRegistrationTimeout event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily



Value	Default Configuration
Enable Email	Selected
Trigger Alert Action	Default

## RecordingGatewaySessionFailed

### Default Configuration

*Table 174: Default Configuration for the RecordingGatewaySessionFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingGatewaySessionFailed event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RecordingResourcesNotAvailable

### Default Configuration

*Table 175: Default Configuration for the RecordingResourcesNotAvailable RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingGatewayRegistrationTimeout event(s) generated.

Value	Default Configuration
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RecordingSessionTerminatedUnexpectedly

### Default Configuration

*Table 176: Default Configuration for the RecordingSessionTerminatedUnexpectedly RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: RecordingCallSetupFail event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RouteListExhausted

This alert occurs when the number of RouteListExhausted events exceeds the configured threshold during the configured time interval. This indicates that all available channels that are defined in the route list are busy. The default specifies 0 within 60 minutes.

### Default Configuration

*Table 177: Default Configuration for the RouteListExhausted RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Number of RouteListExhausted exceeds 0 times within the last 60 minutes
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## RTMTSessionsExceedsThreshold

### Default Configuration

*Table 178: Default Configuration for the RTMTSessionsExceedsThreshold RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: When number of ast session is more than 250.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## SDLLinkOutOfService

This alert occurs when the SDLLinkOutOfService event gets generated. This event indicates that the local Unified Communications Manager cannot communicate with the remote Unified Communications Manager. This event usually indicates network errors or a non-running remote Unified Communications Manager.

### Default Configuration

*Table 179: Default Configuration for the SDLLinkOutOfService RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: SDLLinkOutOfService event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## TCPSetupToIMEFailed

This alert occurs when Unified Communications Manager cannot establish a TCP connection to a Cisco IME server. This alert typically occurs when the IP address and port of the Cisco IME server are misconfigured in Unified Communications Manager or when an Intranet connectivity problem exists and prevents the connection from being set up.

Ensure that the IP address and port of the Cisco IME server in the alert are valid. If the problem persists, test the connectivity between the Unified Communications Manager servers and the Cisco IME server.

### Default Configuration

*Table 180: Default Configuration for the TCPSetupToIMEFailed Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers

Value	Default Configuration
Threshold	Trigger alert when following condition met: Connection Failure to Cisco IME server
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## TLSConnectionToIMEFailed

This alert occurs when a TLS connection to the Cisco IME service could not be established because the certificate presented by the Cisco IME service has expired or is not in the Unified Communications Manager CTL.

Ensure that the Cisco IME service certificate has been configured into the Unified Communications Manager.

### Default Configuration

*Table 181: Default Configuration for the TLSConnectionToIMEFailed Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: TLS Failure to Cisco IME service
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## UserInputFailure

### Default Configuration

Table 182: Default Configuration for the UserInputFailure RTMT Alert

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: UserInputFailure event(s) generated.
Duration	Trigger alert immediately
Frequency	Trigger up to 3 alerts every 30 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IM and Presence Service Alerts

### CTIGWModuleNotEnabled

#### Alert Description

This alert indicates that the Cisco CTI Gateway application is either not fully configured or enabled.

#### Unified RTMT Default Threshold

Not applicable.

#### Recommended Actions

Configure and enable the Cisco CTI Gateway application using the Unified Communications Manager IM and Presence CTI Gateway Settings page.

### CTIGWProviderFailedtoOpen

#### Type

IM and Presence Service

#### Alert Description

This alert indicates that the CTI Provider failed to open due to a configuration error.

#### Unified RTMT Default Threshold

Not Applicable.

**Recommended Actions**

Verify the Unified Communications Manager addresses and application user credentials on the Administration GUI CTI Settings page.

## CTIGWQBFailedRequest

**Alert Description**

This alert indicates that the Cisco CTI Gateway application received a failed response to a request.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## CTIGWSystemError

**Alert Description**

This alert indicates Cisco CTI Gateway application system errors.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## CTIGWUserNotAuthorized

**Alert Description**

This alert indicates that the user failed to authorized due to wrong device or line DN.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify user device configuration and MOC settings.

## CTIGWUserNotLicenced

**Alert Description**

This alert indicates that the user failed to authorize due to no license available.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the Cisco CTI Gateway application license and user configuration.

## DuplicateDirectoryURI

**Alert Description**

This alert indicates that there are multiple users within the intercluster deployment that are assigned the same directory URI value when the Directory URI IM Address scheme is configured.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Take immediate action to correct the issue. Each user must be assigned a unique directory URI. Affected users may be homed on an intercluster peer.

## DuplicateUserid

**Alert Description**

This alert indicates that there are duplicate user IDs assigned to one or more users on different clusters within the intercluster deployment.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Take immediate action to correct the issue. Each user must be assigned a unique user ID. The affected users may be homed on an intercluster peer.

## EspConfigAgentFileWriteError

**Alert Description**

This alert indicates that the Cisco Config Agent service cannot write to the file system.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Using Unified RTMT, verify whether the disk space is low or exhausted. This alarm may indicate that the system is overloaded, which may require reassigning users to other nodes in the IM and Presence Service cluster. You can reassign users to other nodes using the Topology page on the IM and Presence Service Administration GUI.

## EspConfigAgentHighCPUUtilization

**Alert Description**

This alert indicates that CPU utilization has exceeded the configured threshold.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Unified RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## EspConfigAgentHighMemoryUtilization

**Alert Description**

This alert indicates that the virtual memory utilization has exceeded the configured threshold.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Unified RTMT to monitor memory utilization and reduce system load to improve performance if necessary.



## EspConfigAgentLocalDBAccessError

**Alert Description**

This alert indicates that the Cisco Config Agent service failed to read or write to the local IM and Presence Service database.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify the system health using Cisco RTMT. Verify that the service A Cisco DB is running.

## EspConfigAgentMemAllocError

**Alert Description**

This alert indicates that the Cisco Config Agent service cannot allocate memory.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Using Unified RTMT, verify if the system memory is low or exhausted. This alarm may indicate that the system is overloaded which may require reassigning users to other nodes in the IM and Presence Service cluster. You can reassign users to other nodes using the Topology page on the IM and Presence Service Administration GUI.

## EspConfigAgentNetworkOutage

**Alert Description**

This alert indicates Cisco Config Agent network outage.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify system health and network connectivity using Cisco RTMT.

## EspConfigAgentNetworkRestored

**Alert Description**

This alert indicates that Cisco Config Agent network is restored.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify system health and network connectivity using Cisco RTMT.

## EspConfigAgentProxyDomainNotConfigured

**Alert Description**

This alert indicates that the Cisco Config Agent service is not configured. Cisco Config Agent service uses the proxy domain to properly generate ACLs. If not configured it could lead to routing failures.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Go to the Service Parameters drop-down menu on the IM and Presence Service publisher. Select the Cisco SIP Proxy service. Enter the IM and Presence Service domain into the Proxy Domain service parameter and save.

## EspConfigAgentRemoteDBAccessError

**Alert Description**

This alert indicates that the Cisco Config Agent service cannot access a remote IM and Presence Service database.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify that the service A Cisco DB is running on the node specified in the alert. Sometimes these errors can be transient. In some cases the Config Agent may be accessing remote nodes that are not available for some reason. If that is the case, then this error is expected. This result would happen in a user reassignment to a node that is not installed or available.

## EspConfigAgentSharedMemoryStaticRouteError

**Alert Description**

This alert indicates that the Cisco Config Agent service failed to access static routes in shared memory. This may indicate that the system is out of memory.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Using Cisco RTMT, verify if the system shared memory is low or exhausted. This alarm may indicate the system is overloaded which may require reassigning users to other nodes in the IM and Presence Service cluster. You can reassign users to other nodes using the Topology page on the Administration GUI.

## ESPConfigError

**Alert Description**

This alert indicates Cisco SIP Proxy service configuration file error.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify that the Cisco Config Agent service is running. This service is responsible for writing the proxy configuration file.

## ESPConfigNotFound

**Alert Description**

This alert indicates that Cisco SIP Proxy service configuration file is not found.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify that the configuration files `/usr/local/sip/conf/sipd.conf` and `/usr/local/sip/conf/dynamic.sipd.conf` exist on the IM and Presence server.

## ESPCreateLockFailed

**Alert Description**

This alert indicates that lock file has not been created.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPLoginError

**Alert Description**

This alert indicates that an error occurred while communicating with the login datastore.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPMallocFailure

**Alert Description**

This alert indicates that memory allocation has failed. This may indicate a low or no memory issue with the server.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Unified RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESP NAPTR Invalid Record

**Alert Description**

This alert indicates that NAPTR record format error.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESP Passed Param Invalid

**Alert Description**

This alert indicates that invalid parameters were specified. This could be because the parameters were NULL.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Unified RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPRegistryError

**Alert Description**

This alert indicates that it is not possible to add registration to the SIP Registry because a resource limit was exceeded.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPRoutingError

**Alert Description**

This alert indicates SIP Route Interface resource limit exceeded error.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPSharedMemAllocFailed

**Alert Description**

This alert indicates that the Cisco SIP Proxy service failed to allocate shared memory segments while trying to initialize tables.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use Unified RTMT to check system shared memory, check the Cisco SIP Proxy service trace log file for any detailed error messages and contact Cisco TAC for assistance.

## ESPSharedMemCreateFailed

**Alert Description**

This alert indicates that the Cisco SIP Proxy service failed to create shared memory segments while trying to initialize tables.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use Unified RTMT to check system shared memory, check the Cisco SIP Proxy service trace log file for any detailed error messages, and contact Cisco TAC for assistance.

## ESPSharedMemSetPermFailed

**Alert Description**

This alert indicates that the Cisco SIP Proxy service failed to set permissions on shared memory segments while trying to initialize tables.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use Unified RTMT to check system shared memory, check the Cisco SIP Proxy service trace log file for any detailed error messages, and contact Cisco TAC for assistance.

## ESPSocketError

**Alert Description**

This alert indicates network socket errors that could be caused by binding errors such as get socket address failures.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPStatsLogFileOpenFailed

**Alert Description**

This alert indicates that the Cisco SIP Proxy service stats log file has failed to open.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPStopped

**Alert Description**

This alert indicates that the Cisco SIP Proxy service child process has stopped.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

If the administrator has not manually stopped the Proxy service, this may indicate a problem. Use Unified RTMT to check for any related alarms and contact Cisco TAC for assistance.

## ESPVirtualProxyError

**Alert Description**

This alert indicates Virtual\_Proxy\_Domain related error.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPWrongHostName

**Alert Description**

This alert indicates an invalid IP address or an unresolvable hostname.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ESPWrongIPAddress

**Alert Description**

This alert indicates that an invalid IP address has been provided.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## ICSACertificateCASignedTrustCertFound

**Alert Description**

This alert indicates that the Cisco Intercluster Sync Agent service has detected a signed CA trust certificate.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Allow only unsigned CA trust certificates.

## ICSACertificateFingerprintMismatch

**Alert Description**

This alert indicates that the Cisco Intercluster Sync Agent service detected a fingerprint mismatch on the certificate being processed.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use the IM and Presence Service OS Administration GUI to compare the certificates that are loaded on this server with the certificates on the source server. You might need to delete the problem certificates and reload them.

## ICSACertificateValidationFailure

**Alert Description**

This alert indicates that the Cisco Intercluster Sync Agent service detected a validation error on the certificate being processed.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use the IM and Presence OS Administration GUI to compare the certificates that are loaded on this server with the certificates on the source server. You might need to delete the problem certificates and reload them.

## InterclusterSyncAgentAXLConnectionFailed

**Alert Description**

This alert indicates that the Cisco Intercluster Sync Agent service failed authentication to the remote IM and Presence Service cluster and therefore cannot connect.

**Unified RTMT Default Threshold**

Not Applicable.

**Recommended Actions**

Verify that the AXL credentials are correct and whether the Cisco AXL Web service is running on the remote IM and Presence Service cluster.

## InterclusterSyncAgentPeerDuplicate

**Alert Description**

This alert indicates that the Cisco Intercluster Sync Agent service failed to sync user location data from a remote peer. The remote peer is from an IM and Presence Service cluster that already has a peer in the local cluster.

**Unified RTMT Default Threshold**

Not Applicable.

**Recommended Actions**

Verify that the hostname of the remote peer is not a secondary node from the identified existing peer. If the new peer is a secondary node, then remove this peer from the IM and Presence Service Administration GUI Inter-cluster details page. You can also run the System Troubleshooter for more details.

## InvalidDirectoryURI

**Alert Description**

This alert indicates that one or more users within the deployment are assigned an empty or invalid directory URI value when the Directory URI IM Address scheme is configured.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Take immediate action to correct the issue. Affected users may be homed on an intercluster peer.

## LegacyCUPCLogin

**Alert Description**

This alert indicates that a legacy Cisco Unified Personal Communicator client has attempted to login to the Cisco Client Profile Agent service.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Upgrade the legacy Cisco Unified Personal Communicator client as it is currently not supported.

## NotInCucmServerListError

**Alert Description**

This alert indicates that the Cisco Sync Agent failed to start because the IM and Presence node is not in the server list on the Unified Communications Manager publisher.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Add the IM and Presence node to the server list on the Unified Communications Manager server and start the Cisco Sync Agent service.

## PEAutoRecoveryFailed

**Alert Description**

This alert indicates that an error occurred during the startup sequence of the Cisco Presence Engine service.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

This error may indicate a possible configuration issue. Correct the problem identified in the failure message.

## PEDatabaseError

**Alert Description**

This alert indicates that the Cisco Presence Engine service encountered an error while retrieving information from the database. This may indicate a problem with the Cisco DB service.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Verify that the Cisco DB service is running. Use Unified RTMT to check the Cisco Presence Engine service logs for errors. Consult Cisco TAC for guidance.

## PEIDSQueryError

**Alert Description**

This alert indicates that the Cisco Presence Engine service has detected an error while querying the IM and Presence Service database.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Restart the Cisco Presence Engine service when convenient. See the associated error message and log files and consult Cisco TAC if the problem persists.

## PEIDSSubscribeError

**Alert Description**

This alert indicates that the Cisco Presence Engine service was unable to subscribe for IM and Presence Service database change notifications.



**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Restart the Cisco Presence Engine service when convenient. See the associated error message and log files and consult Cisco TAC if the problem persists.

## PEIDStoIMDBDatabaseSyncError

**Alert Description**

This alert indicates that synchronization between the IM and Presence database and the Cisco Presence Engine and a database service has failed (Cisco Login Datastore, Cisco Route Datastore, Cisco Presence Datastore, and Cisco SIP Registration Datastore).

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Restart the Cisco Presence Engine service when convenient. See associated error message and log files and consult Cisco TAC if the problem persists.

## PELoadHighWaterMark

**Alert Description**

This alert indicates that the Cisco Presence Engine service has exceeded CPU utilization threshold.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Inspect the number of active subscription counters using Cisco RTMT: ActiveSubscriptions, ActiveViews, SubscriptionActiveReceivedFromForeign, and SubscriptionActiveSentForeign. If this condition persists, you may consider moving users to a different IM and Presence Service node in the cluster.

## PEMemoryHighCondition

**Alert Description**

This alert indicates that the Cisco Presence Engine service has hit a high memory threshold.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the number of active subscription counters: ActiveSubscriptions, ActiveViews, SubscriptionActiveReceivedFromForeign, and SubscriptionActiveSentForeign using Unified RTMT. If this condition persists, offload some users to a different IM and Presence node in the cluster.

## PEPeerNodeFailure

**Alert Description**

This alert indicates that Cisco Presence Engine service on the peer node of a subcluster has failed.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Use Cisco Unified Serviceability to verify that the Cisco Presence Engine service is running. Consult Cisco TAC for further assistance.

## PESipSocketBindFailure

**Alert Description**

This alert indicates that the Cisco Presence Engine service cannot connect to the indicated configured interface. No SIP traffic can be processed on this interface.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Verify that the Cisco Presence Engine service listen interface is configured correctly on the IM and Presence Service Administration GUI Application Listener page. Verify that no other process is listening on the same port using netstat.

## PEStateDisabled

**Alert Description**

This alert indicates that the Cisco Presence Engine service is inoperable and cannot process traffic.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the log files and monitor the Cisco Presence Engine service with Unified RTMT.

## PEStateLocked

**Alert Description**

This alert indicates that the Cisco Presence Engine service is administratively prohibited from processing traffic.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

This alert is only for notification purpose. No action is required.

## PEWebDAVInitializationFailure

**Alert Description**

This alert indicates that the Cisco Presence Engine service has failed to initialize the WebDAV library.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Restart the Cisco Presence Engine service.

## PWSAboveCPULimit

**Alert Description**

This alert indicates that the Presence Web Service module running in the Cisco SIP Proxy service has detected that the CPU utilization has exceeded the configured threshold. During this time, new requests are blocked until the CPU utilization drops below the configured threshold.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Using Unified RTMT, inspect the Cisco SIP Proxy service logs for more details.

## PWSAboveSipSubscriptionLimit

**Alert Description**

This alert indicates that the Presence Web Service running in the Cisco SIP Proxy service has detected that the subscription count has exceeded the configured limit. During this time the Presence Web Service will block new incoming SIP subscriptions until the subscription count drops below the configured limit.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Using Cisco RTMT, inspect the Cisco SIP Proxy service logs for more details.

## PWSRequestLimitReached

**Alert Description**

This alert indicates that the Cisco SIP Proxy service request per second limit has been reached.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

You may need to throttle back the incoming request rate.

## PWSSCBFindFailed

**Alert Description**

This alert indicates that a call to find\_scb() returned NULL which indicates the SCB lookup failed.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## PWSSCBInitFailed

**Alert Description**

This alert indicates that SCB init has failed.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Restart the Cisco SIP Proxy service.

## SRMFailover

### Type

IM and Presence Service

### Alert Description

This alert indicates that the Server Recovery Manager is performing an automatic failover.

### Unified RTMT Default Threshold

Not Applicable

### Recommended Actions

Verify that the failed node is up and that critical services are running.

## SRMFailed

### Alert Description

This alert indicates that the Server Recovery Manager is in the Failed state.

### Unified RTMT Default Threshold

Not Applicable

### Recommended Actions

When it is convenient restart the Server Recovery Manager.

## UASCBFindFailed

### Alert Description

This alert indicates that a call to find\_scb() returned NULL which indicates the SCB lookup failed.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## UASCBGetFailed

### Alert Description

This alert indicates that a call to tcbtable\_acquire\_tcb() returned NULL which indicates a SCB get/create failure.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Use Cisco RTMT to check the Cisco SIP Proxy service trace log file for any detailed error messages.

## XcpCmComponentConnectError

### Alert Description

This alert indicates that the Cisco XCP Connection Manager is shutting down because it failed to connect to the Cisco XCP Router.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Check the Cisco XCP Connection Manager log file for more details.

## XcpCmPauseSockets

**Alert Description**

This alert indicates that the outstanding XCP internal packet or database requests have reached configured limit. Client connections will be paused until pending requests have dropped back below threshold. Users will experience lag until issue is resolved. Users may be disconnected if configured timeout is reached before resolution.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the XCP Router log file for more details. Monitor client disconnecting due to timeout from the XCP Connection Managers.

## XcpCmStartupError

**Alert Description**

This alert indicates that the XCP Connection Manager service failed to startup.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the CM log file for more details.

## XcpCmXmppdError

**Alert Description**

This alert indicates that the XCP Connection Manager (CM) service has errors in the XMPP interface.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the CM log file for more details.

## XCPConfigMgrConfigurationFailure

**Alert Description**

This alert indicates that the Cisco XCP Config Manager failed to successfully update XCP configuration.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

See the Cisco XCP Config Manager logs for the root cause. Contact Cisco TAC for assistance.

## XCPConfigMgrHostNameResolutionFailed

**Alert Description**

This alert indicates that the Cisco XCP Config Manager could not resolve a DNS name to allow Cisco XCP Routers to connect to that node.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Verify DNS resolvability of all hostnames and FQDNs in both local and remote clusters. Restart the Cisco XCP Config Manager and then restart the Cisco XCP Router after DNS is resolvable.

## XCPConfigMgrJabberRestartRequired

**Alert Description**

This alert indicates that the Cisco XCP Config Manager has regenerated XCP XML files after system halt due to buffer size. The Cisco XCP Router must now be restarted to apply changes.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

When it is convenient to do so, restart the Cisco XCP Router.

## XCPConfigMgrR2RPasswordEncryptionFailed

**Alert Description**

This alert indicates that the Cisco XCP Config Manager was unable to encrypt the password that is associated with an Inter-cluster Router-to-Router configuration.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

When it is convenient to do so, restart the Cisco XCP Config Manager and then restart the Cisco XCP Router.

## XCPConfigMgrR2RRequestTimedOut

**Alert Description**

This alert indicates that Cisco XCP Config Manager sent an R2R configuration request to the XCP Router, but the XCP Router did not acknowledge the request in the time allowed.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Restart the Cisco XCP Config Manager and then restart the XCP Router.

## XcpDBConnectError

**Alert Description**

Cisco XCP data access layer was unable to connect to the DB. This may indicate that the local or external database is down or the network connectivity to the external database is lost.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the System Troubleshooter for more information. Also check that the external database is running healthy and if there is any problem with the network connectivity to the external database server.

## XcpMdnsStartError

**Alert Description**

This alert indicates that the XCP Router failed to startup the Multicast Domain Name Service (MDNS). This can cause connectivity failures to other routers in the cluster.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the XCP Router log file for more details.

## XcpMFTDBConnectError

**Alert Description**

This alert indicates that the Cisco XCP data access layer was unable to connect to the external database.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Check the System Troubleshooter for more information. Also check that the external database is running healthy and if there is a problem with the network connectivity to the external database server.

## XcpMFTExtFsFreeSpaceWarn

**Alert Description**

This alert indicates that the Cisco XCP File Transfer Manager has detected that the available disk space on the external file server is low.

**Unified RTMT Default Threshold**

Less than 10% of the file server disk space remains.

**Recommended Actions**

The alert is cleared by increasing disk space to greater than 15%. Free up space on the external file server by deleting unwanted files from the partition used for file transfers.

## XcpMFTExtFsMountError

**Alert Description**

This alert indicates that the Cisco XCP File Transfer Manager has lost its connection to the external file server.

**Unified RTMT Default Threshold**

Not Applicable

**Recommended Actions**

Check the External File Server Troubleshooter for more information. Also check that the external file server is running correctly or if there is a problem with the network connectivity to the external file server.

## XcpSIPFedCmComponentConnectError

### Alert Description

This alert indicates that the Cisco XCP SIP Federation Connection Manager is shutting down as it failed to connect to the Cisco XCP Router.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Check the Cisco XCP SIP Federation Connection Manager log file for more details.

## XcpSIPFedCmStartupError

### Alert Description

This alert indicates that the Cisco XCP SIP Federation Connection Manager service has failed to start.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Check the Cisco XCP SIP Federation Connection Manager log file for more details.

## XcpSIPGWStackResourceError

### Alert Description

This alert indicates that the maximum supported concurrent SIP Federation subscriptions or SIP Federation IM sessions has been reached, and the Cisco XCP SIP Federation Connection Manager does not have the resources that are required to handle any addition subscriptions or IM sessions.

### Unified RTMT Default Threshold

Not Applicable

### Recommended Actions

Increase the Pre-allocated SIP stack memory Service Parameter for the Cisco XCP SIP Federation Connection Manager. Note: If you are changing this setting, make sure that you have the memory available. If you do not have enough memory, you may have reached the limit of your hardware capability.

## XcpThirdPartyComplianceConnectError

### Alert Description

This alert indicates that Cisco XCP Router is unable to connect to the Third Party Compliance Server. This may be because of a network problem or a Third Party Compliance Server configuration or licensing problem.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

This is a serious error that breaks IM on the IM and Presence Service. Check network connection to and configuration(including licensing) on Third Party Compliance Server. To restore IM services set the Compliance Settings option in the Administration GUI to Not Configured until the connection failure cause is identified.



## XcpTxtConfDBConnectError

**Alert Description**

This alert indicates that the Cisco XCP Text Conferencing data access layer was unable to connect to the external database.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the system troubleshooter for more information. Also check if the external database is running properly and if there is any problem with the network connectivity to the external database server.

## XcpTxtConfGearError

**Alert Description**

This alert indicates that the XCP Text Conference Manager (TC) Service has failed to load a configured component. This can prevent the service to start or behave as expected.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the XCP Text Conference log file for more details.

## XcpWebCmComponentConnectError

**Alert Description**

This alert indicates that the Cisco XCP Web Connection Manager is shutting down as it failed to connect to the Cisco XCP Router.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the Cisco XCP Web Connection Manager log file for more details.

## XcpWebCmHttpdError

**Alert Description**

This alert indicates that the Cisco XCP Web Connection Manager service has errors in the HTTP interface.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the Cisco XCP Web Connection Manager log file for more details.

## XcpWebCmStartupError

**Alert Description**

This alert indicates that the Cisco XCP Web Connection Manager service has failed to start.

**Unified RTMT Default Threshold**

Not applicable.

**Recommended Actions**

Check the Cisco XCP Web Connection Manager log file for more details.

## XcpXMPPFedCmComponentConnectError

### Alert Description

This alert indicates that the Cisco XCP XMPP Federation Connection Manager is shutting down because it failed to connect to the Cisco XCP Router.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Check the Cisco XCP XMPP Federation Connection Manager log file for more details.

## XcpXMPPFedCmStartupError

### Alert Description

This alert occurs when the XCP XMPP Federation Connection Manager service failed to startup.

### Unified RTMT Default Threshold

Not applicable.

### Recommended Actions

Please check the CM log file for more details.

## Intercompany Media Engine Alerts

### BannedFromNetwork

This alert indicates that network administrators have banned this Cisco IME server from the network (IME distributed cache ring), making this Cisco IME service fully or partly inoperative. Network administrators rarely ban servers but do so if they detect that the server is being used to launch malicious attacks into the network. If you receive this alert in error, contact TAC immediately.

### Default Configuration

*Table 183: Default Configuration for the BannedFromNetwork Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cisco IME service banned from network
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily

Value	Default Configuration
Enable Email	Selected
Trigger Alert Action	Default

## IMEDistributedCacheCertificateExpiring

This alert indicates the number of days that remain until the certificate that is used for the IME distributed cache expires. You must replace the certificate prior to expiration.

### Default Configuration

*Table 184: Default Configuration for the IMEDistributedCacheCertificateExpiring Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cisco IME distributed cache certificate about to expire. 14 days.
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alerts within 1440 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMEDistributedCacheFailure

This alert indicates the health of the IME distributed cache. A value of zero (red) means that the IME distributed cache is suffering from a significant problem such as one of the following conditions:

- The Cisco IME cannot resolve issues after the network was partitioned. In this case, validation attempts may fail.
- The Cisco IME service is not connected to the network at all and is unable to reach the bootstrap servers.

A value of one (yellow) indicates that the Cisco IME network is experiencing minor issues, such as connectivity between bootstrap servers or other Cisco IME network issues. Check for any alarms that may indicate why this counter is 1. A value of two indicates that IME distributed cache is functioning normally and the system is considered healthy.

## Default Configuration

*Table 185: Default Configuration for the IMEDistributedCacheFailure Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: IME distributed cache failure in states 1: network experience minor issues 0: network in trouble
Duration	Trigger alert immediately
Frequency	Trigger 1 alert within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## IMESdLinkOutOfService

This alert indicates that the Cisco IME service has lost communication with Cisco IME Config Manager services, such as the Cisco AMC Service or the Cisco CallManager Service.

This alert usually indicates that one of these services has gone down (either intentionally, for maintenance; or unintentionally, due to a service failure or connectivity failure).

## Default Configuration

*Table 186: Default Configuration for the IMESdLinkOutOfService Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: SDLLinkOOS event generated
Duration	Trigger alert immediately

Value	Default Configuration
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## InvalidCertificate

This alert indicates that the administrator enabled the IME distributed cache on the Cisco IME server but omitted the configuration of a valid certificate or configured an incorrect certificate.

### Default Configuration

*Table 187: Default Configuration for the InvalidCertificate Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Alert
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Invalid certificate configured
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## InvalidCredentials

The alert indicates that the Unified Communications Manager cannot connect to the Cisco IME server, because the username and password that are configured on Unified Communications Manager do not match those configured on the Cisco IME server.

The alert includes the username and password that were used to connect to the Cisco IME server as well as the IP address and name of the target Cisco IME server. To resolve this alert, log into the Cisco IME server and check that the username and password that are configured match those configured in Unified Communications Manager.

### Default Configuration

**Table 188: Default Configuration for the InvalidCredentials Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Invalid or mismatched credentials.
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## MessageOfTheDay

The Cisco IME service generates this alert when the administrators of the Cisco IME network have a message for you.

### Default Configuration

**Table 189: Default Configuration for the MessageOfTheDay Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Notice
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Message from network administrators
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alert within 1440 minutes
Schedule	24 hours daily
Enable Email	Selected

Value	Default Configuration
Trigger Alert Action	Default

## SWUpdateRequired

The Cisco IME server generates this alert when a new version of the Cisco IME server software is required. This alert repeats until you perform the upgrade. To obtain more information about the software update, go to the Cisco website. You should install critical updates within days of receiving this alert.

These upgrades address security vulnerabilities or key functional outages. In some cases, if you do not apply a critical upgrade immediately, the Cisco IME server may become unable to connect to the network.

### Default Configuration

*Table 190: Default Configuration for the SWUpdateRequired Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Warning
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Software update required
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alerts within 60 minutes
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## TicketPasswordChanged

The Cisco IME server generates this alert when the administrator changes the password that is used to generate the validation tickets.

Verify that an authorized administrator changed the password. Unauthorized changes may indicate compromise to the administrative interfaces on the Cisco IME service. If you determine that unauthorized changes have been made, change the administrative passwords on the Cisco IME server immediately to prevent further unauthorized access. To change the administrative password, type **set password admin** in the Cisco IME server CLI.

### Default Configuration

**Table 191: Default Configuration for the TicketPasswordChanged Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Notice
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Ticket password changed
Duration	Trigger alert immediately
Frequency	Trigger on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## ValidationsPendingExceeded

This alert indicates the number of pending validations on the Cisco IME server. This number provides an indicator of the backlog of work on the Cisco IME server.

### Default Configuration

**Table 192: Default Configuration for the ValidationsPendingExceeded Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on the following servers	Enabled on listed servers
Threshold	Trigger alert when following condition met: Cisco IME pending validations exceeded 100
Duration	Trigger alert immediately
Frequency	Trigger up to 1 alerts within 60 minutes
Schedule	24 hours daily
Enable Email	Selected



Value	Default Configuration
Trigger Alert Action	Default

## Cisco Unity Connection Alerts

### NoConnectionToPeer

(Cisco Unity Connection cluster configuration) This alert is generated when the servers of a Cisco Unity Connection cluster cannot communicate with each other (for example, when the network connection is lost).

#### Default Configuration

*Table 193: Default Configuration for the NoConnectionToPeer RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Critical
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: NoConnectionToPeer event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

### AutoFailoverSucceeded

(Cisco Unity Connection cluster configuration) This alert is generated in the following conditions:

- When the server with the Secondary status automatically changes its status to Primary (for example, when a critical failure occurs on the server with the Primary status) and assumes responsibility for handling the voice messaging functions and database for the cluster. This alert signals that the following events occurred:
  - The server that originally had the Primary status experienced a serious failure.
  - The server that originally had the Secondary status now has the Primary status and is handling all calls successfully.

- When the server that stopped functioning (described above) is brought back online and the server status automatically changes so that both servers resume sharing responsibility for handling the voice messaging functions and replication.

### Default Configuration

**Table 194: Default Configuration for the AutoFailoverSucceeded RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Informational
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: AutoFailoverSucceeded event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## AutoFailoverFailed

(Cisco Unity Connection cluster configuration) This alert is generated in the following conditions:

- When the server with the Secondary status attempts to automatically change its status to Primary (for example, when a critical failure occurs on the server with the Primary status), but the automatic server status change fails so that the server with the Secondary status keeps the Secondary status.
- When a server that has stopped functioning (for example, a critical failure occurred) is not brought back online. Only one server in the cluster is functioning.

### Default Configuration

**Table 195: Default Configuration for the AutoFailoverFailed RTMT Alert**

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on following server(s)	Enabled

Value	Default Configuration
Threshold	Trigger alert when following condition met: AutoFailoverFailed event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## AutoFailbackSucceeded

(Cisco Unity Connection cluster configuration) This alert is generated when the problem that caused the server with the Primary status to stop functioning (causing the server with the Secondary status to change its status to Primary) is resolved and both servers are again online. Then, the servers automatically change status so that the server that had stopped functioning has the Primary status and the other server has the Secondary status.

### Default Configuration

*Table 196: Default Configuration for the AutoFailbackSucceeded RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Informational
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: AutoFailbackSucceeded event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## AutoFailbackFailed

(Cisco Unity Connection cluster configuration): This alert occurs when the publisher node is not online and the server with the Primary status fails to automatically change status.

### Default Configuration

*Table 197: Default Configuration for the AutoFailbackFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: AutoFailbackFailed event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## SbrFailed (Split Brain Resolution Failed)

When a Cisco Unity Connection cluster is configured, if two servers cannot communicate with each other, they will both have the Primary status at the same time (a “split brain” condition), handle voice messaging functions, save messages to their own message stores, but not perform any replication. Users can retrieve their messages, but only one server knows that these messages have been retrieved.

When both servers are able to communicate with each other, they resolve this split brain condition by determining the correct contents and state of each user mailbox:

- Whether new messages that have been received.
- Whether MWIs for new messages have already been sent.
- Which messages have been listened to.
- Which messages have been deleted.

If the resolution of the split brain condition fails, this alert occurs.

### Default Configuration

*Table 198: Default Configuration for the SbrFailed RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Informational
Threshold	Trigger alert when following condition met: SbrFailed event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## DiskConsumptionCloseToCapacityThreshold

This alert is generated when the hard disk usage on the Cisco Unity Connection server reaches ten percent below the percentage limit that the **System Settings > Advanced > Disk Capacity** window in Cisco Unity Connection Administration specifies. For example, with a capacity threshold limit of 95 percent, the alert gets triggered when usage reaches at least 85 percent.

### Default Configuration

*Table 199: Default Configuration for the DiskConsumptionCloseToCapacityThreshold RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: DiskConsumptionCloseToCapacityThreshold event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected

Value	Default Configuration
Trigger Alert Action	Default

## DiskConsumptionExceedsCapacityThreshold

This alert is generated when the hard disk usage on the Cisco Unity Connection server meets or exceeds the percentage limit that the **System Settings > Advanced > Disk Capacity** window in Cisco Unity Connection Administration specifies.

### Default Configuration

*Table 200: Default Configuration for the DiskConsumptionExceedsCapacityThresholdRTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Error
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: DiskConsumptionExceedsCapacityThreshold event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LicenseExpirationWarning

Cisco Unity Connection licenses several features, including users and ports. The system enforces these licenses. If a customer uses a time-limited license to sample a feature, this license includes an expiration date. Before the license expiration date is reached, the system sends a message, and this alert occurs. The log indicates how many days remain until the license expires.

### Default Configuration

*Table 201: Default Configuration for the LicenseExpirationWarning RTMT Alert*

Value	Default Configuration
Enable Alert	Selected

Value	Default Configuration
Severity	Critical
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: LicenseExpirationWarning event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

## LicenseExpired

Cisco Unity Connection licenses several features, including users and ports. The system enforces these licenses. If a customer uses a time-limited license to sample a feature, this license includes an expiration date. When the license expiration date is reached, the license becomes invalid, and this alert occurs.

### Default Configuration

*Table 202: Default Configuration for the LicenseExpired RTMT Alert*

Value	Default Configuration
Enable Alert	Selected
Severity	Informational
Enable/Disable this alert on following server(s)	Enabled
Threshold	Trigger alert when following condition met: LicenseExpired event generated
Duration	Trigger alert immediately
Frequency	Trigger alert on every poll
Schedule	24 hours daily
Enable Email	Selected
Trigger Alert Action	Default

# System Error Messages

## System Error Messages

For a complete list of system error messages, see the *System Error Messages for Cisco Unified Communications Manager* at <https://www.cisco.com/c/en/us/support/unified-communications/unified-communications-manager-callmanager/products-system-message-guides-list.html>.