CHAPTER 10

Understanding Service Parameters

The Service Parameters configuration pages for Cisco CallManager (release 3.0 and later) allow you to configure several different services on selected servers. With the Service Parameters application, you can insert, modify, and delete service parameters for those services. Refer to the "Service Parameter Restart Conditions" section on page 35-2 for information on when a Cisco CallManager restart is required for certain parameters.

Caution You will never need to add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Related Topics

Cisco CallManager Service Parameters

Caution You will never need to add or delete service parameters unless directed by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Note If you must modify trace parameters, Cisco strongly recommends doing so from the Trace Configuration page. Refer to the "Configuring Trace" section on page 36-1 for more information.

Table 10-1 provides service parameters configured for Cisco CallManager.

Table 10-1 Cisco CallManager Service Parameters

ParamName	Values	Description
AbleToEstablishMF	Default: T	Used for certification testing. Cisco recommends that you do not change the default value. Valid values are T or F. This setting sends the SABME at startup instead of waiting for the distance end to do it.
AdHocConferenceMixerType	Default: 2	Specifies the mixer type to be used for AdHoc conferences. If the mixer type is set to Unicast Bridge, when a user presses the Conference button on the phone, the conference supplementary service allocates a Unicast Bridge resource to handle the conference.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
AdvancedCallForwardHopFlag	Default: F	When AdvancedCallForwardHopFlag = false: When selecting the next voicemail port, the Cisco CallManager call forward feature does not skip the busy or unregistered voicemail port; instead, the call is extended to the busy or unregistered voicemail port, is rejected, and is then forwarded to the next voicemail port. When AdvancedCallForwardHopFlag = true: When selecting the next voicemail port, the Cisco CallManager call forward feature skips the busy or unregistered voicemail port, the call is extended to the available voicemail port so that the voicemail ports are selected more efficiently.
AlwaysUsePrimeLine	Default: F	T = When phone goes offhook, or the speaker button is pressed, the first line becomes active; but not any additional lines. Example: If a call comes in on a user's second line, going offhook makes only the first line active. The user must select the second line, in addition to going offhook to answer the call.
AnalogAccessUse729	Default: F	Not supported for Cisco CallManager Release 3.0.
AutoSelectHeldCallFlag	Default: F	Determines whether to automatically select the call on hold when the phone goes offhook if that call was the last signal sent to the phone.
CallAcceptTimer	Default: 10	Specifies the maximum time an application has to accept a call offered at a CTI port or route point.
CallDiagnosticsEnabled	Default: F	Determines whether call diagnostic records are generated. Valid values are F = not generated T = generated
CallParkReversionTimeout	Default: 60	Designates the number of seconds to wait before reverting a parked party to the user who parked the call. Valid value is any numeric value.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
CallWaitingEnable	Default: T	Enables or disables call waiting for the entire system.
CallWaitingTimeout	Default: 180	Designates the number of seconds that a caller hear s ringback (alerting tone) if the person the caller is calling is in one of these states: • Internal to the Cisco AVVID (Architecture for Voice, Video, Integrated Data) system • On the phone • Has Call Waiting enabled • Does not have Forward enabled
CcmPriorityClass	Default: 0	CcmPriorityClass = 0: Cisco CallManager process runs in normal priority class. CcmPriorityClass = 1: Cisco CallManager process switches between normal and high priority class every second. CcmPriorityClass = 2: Cisco CallManager process runs in high priority class.
CdrEnabled	Default: F	Determines whether Call Detail Records (CDRs) are generated. Valid values are T = CDRs are generated F = CDRs are not generated
CdrLogCallsWithZeroDuration Flag	Default: F	Enables logging of CDR records for calls that never connected or that lasted less than 1second.
ClearCallsWhenDatalinkGoes Down	Default: T	Determines whether calls to the phones terminate if the D-channel (datalink) terminates. Valid values are 0 = Do not clear calls when datalink goes down 1 = Clear calls when datalink goes down

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
ConnectDisconnectTimer	Default: 7	Used for debugging purposes only. Cisco strongly recommends you do not change the default value. Parameter designates the maximum time allowed for a response from a connect or disconnect request. Valid value is any numeric value.
CtiApplicationHeartBeatTime	Default: 30	Specifies the interval at which CTI sends heartbeat polls to applications.
CTINewCallAcceptTimeout	Default: 4 (seconds)	Specifies timeout interval. Timer ensures that, for calls made into CTI ports and CTI route points, the calls are not suspended, so that callers hear only silence; if the CTI application controlling the CTI ports/route points does not handle the call. After the Cisco CallManager notifies the application (using JTAPI/TAPI) of an incoming call at a CTI port or CTI route point, the Cisco CallManager waits for a configurable time for the application to handle the call (as in accept, answer, redirect, or disconnect). If the application does not respond within the set time, Cisco CallManager forwards the call to the call forward busy number configured for the CTI port or CTI route point. If no call forward busy is configured, caller receives a fast busy tone.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
CTIRequestTimeout	Default: 5 (seconds)	Specifies timeout interval. Timer ensures responses to CTI requests are generated for situations where network or remote Cisco CallManager node problems prevent the normal processing of the CTI requests. This timer services the following specific CTI requests: • LINE_CALL_INITIATE_REQUEST • CALL_ACCEPT_REQUEST • CALL_ANSWER_REQUEST • CALL_BLIND_TRANSFER_REQUEST • CALL_DISCONNECT_REQUEST • CALL_HOLD_REQUEST • CALL_RETRIEVE_REQUEST • CALL_SETUP_CONFERENCE_REQUEST • CALL_SETUP_TRANSFER_REQUEST
DbNoActivityTimeout	Default: 30	Denotes the time to wait before closing the file after no database requests received. Valid value is any numeric value.
DeviceStatusPollInterval_msec	Default: 300000	Denotes the time between two change of port status messages. Do not modify the default value.
DialPlanPath	Default: c:\Program Files\Cisco\DialPlan	Notifies the digit analysis component where to find national dial plan files.
DigitAnalysisTimer	Default: 6	Used for debugging purposes only. Cisco strongly recommends that you do not change the default value. Timer designates the maximum time allowed for a response from a digit analysis requests. Valid value is any numeric value.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
DisplayIEDeliveryFlag	Default: F	Enables the delivery of the display IE in SETUP and CONNECT messages for the calling and called party name delivery service when set to T.
DtSilenceFlag	Default: F	Designates whether silence plays. When this flag is set, the digital gateway does not play silence after receiving the Alert message. This may enable a full duplex path before the Connect message is received on ISDN calls.
EnableSNMP	Default: T	Enables the collection of SNMP data from the Cisco CallManager.
ForwardMaximumHopCount	Default: 12	Designates maximum number of attempts to extend a forwarded call. Valid value is (Value >=1)
ForwardNoAnswerTimeout	Default: 12	Designates the number of seconds to wait before forwarding on No Answer Condition. Valid value is (Value >=1)
GatekeeperControlRegistration Type	Default: F	Denotes H.323 Gatekeeper Control Registration Type. Cisco strongly recommends that you do not change this parameter unless you have a complete understanding of RAS registration.
GatekeeperRefresh	Default: 60 seconds	Designates the number of seconds between gatekeeper refresh messages.
GatewayKeepAliveTimeout	Default: 25	Designates the number of seconds between gateway status messages.
GatewayPollTimeout	Default: 10	Designates the number of seconds to wait for a response from a GatewayOpenReq. Valid value is any numeric value.
H225ConnectTime	Default: 0	Determines, on an outgoing H.323/H.225 call, whether processing the open logical channel (when audio is transmitted) on the call proceeding, call alerting, or call connecting.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
HoldType	Default: F	Designates originator new hold type. Original Hold Type requires the user to press the hold button to retrieve a call from hold. The new hold type allows the user to press the line button on which the held call is stored to retrieve it.
InterfaceIdentifierPresentFlag	Default: F	Applies only to the DMS100 protocol for the digital access gateway in the Channel Identification IE of the SETUP, CALL PROCEEDING, ALERTING, and CONNECT messages. This parameter interoperates with Nortel PBX when the PBX is configured to use the DMS100 protocol.
IpPrecedence	Default: 0x000000 B0	Used by anyone who configures streaming, phones, media applications, etc. Cisco strongly recommends that this parameter never be changed.
IpTosCm2Cm	Default: 3	Controls class of service of IP traffic and signals between Cisco CallManager to Cisco CallManager. **Note** The following list shows that the valid value for IpTosCm2Cm is between 0 and 7 and is represented as follows: 0 = routine 1 = priority 2 = immediate 3 = flash 4 = flashOver 5 = critical 6 = internet 7 = network

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
IpTosCm2Dvce	Default: 3	Controls class of service of IP traffic and signals between Cisco CallManager to device. Controls class of service of IP traffic and signals between Cisco CallManager to Cisco CallManager. **Note** The following list shows the valid value for IpTosCm2Dvce is between 0 and 7 and is represented as follows: 0 = routine 1 = priority 2 = immediate 3 = flash 4 = flashOver 5 = critical 6 = internet 7 = network
L2RetriesN200	Default: 3	Designates the number of retries before declaring the datalink down. Valid value is any numeric value.
LineStateUpdateEnabled	Default: T	Determines whether Line State Server (used by Cisco WebAttendant) can track the active/inactive states of each line/directory number.
LowPriorityQueueThrottling Flag	Default: F	Designates whether when low-priority TCP queue gets too large, the system starts throwing away new call attempts.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
LowPriorityQueueThrottling MaxCount	Default: 1000	Designates the maximum number of outstanding low-priority stimulus messages in the queue before new call attempts are discarded. Use this value to adjust call response time. Valid value is any numeric value.
MGCPConnectTime	Default: 30 seconds	Designates that all the responses sent by Media Gateway are kept in memory for a certain time. Default for this duration is set to 30 seconds. You should not change this value.
MGCPRespTimeout	Default: 30	Designates that all the responses sent by Media Gateway are kept in memory for a certain time. Default for this duration is set to 30 seconds by default. **Note** You should not change this value.
MGCPTimeout	Default: 5 seconds	Designates the number of seconds to wait before Cisco CallManager retries its request.
MatchingCgpnWithAttendant Flag	Default: F	Compare whether the calling party number matches one of the associated analog access ports on an outbound analog access gateway call. If so, select that port; otherwise, make it so all ports with an attendant number assigned to them are not usable for the life of the current call. This forces selection of another analog access device if another analog access gateway was configured in RoutePoint/RouteGroup. If another analog access gateway was not configured, the user hears a fast busy signal.
MaxAdHocConference	Default: 4 Max: 32	Specifies the maximum number of participants per port that can be added to a Unicast ad-hoc conference.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
MaxCTI Connections	Default: 400	Designates the maximum number of CTI connections. Cisco CallManager allows a maximum number of CTI connections. Typically, each CTI application (or instance of the application) has a single CTI connection to the Cisco CallManager; for example, each Softphone instance has a single CTI connection to the Cisco CallManager. This limit on the number of CTI connections is independent of the number of CTI devices that the application can control.
MaxErrorsToReport	Default: 1	Specifies the number of errors to report per data link establishment. Valid value is any numeric value.
MaxMeetMeConferenceUnicast	Default: 10 Max: 32	Specifies the maximum number of participants per port that can join a Unicast Meet-Me conference.
MaxNumberOfReceivedIFrames BeforeAcking	Default: 0	Specifies number of receive 5 I-Frames received before responding with a receiver ready (RR) for an acknowledgement (ACK). Valid value is any numeric value.
MaxNumberOfStationsIniting	Default: 50	Designates the maximum number of stations that can try to initialize without completing all database requests. Under a heavy load, calls can overwhelm the system to the point where no calls can complete. Set these values to restore usability if the system becomes overwhelmed. Decreasing the LowPriorityQueueThrottlingMaxCount provides faster dial tone but also increases the chances for calls being rejected. Valid value is any numeric value.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
MaxStationsInitPerSecond	Default: 10	Parameter is an integer with a value usually between 5 and 15. This parameter throttles the number of phones allowed to concurrently register with Cisco CallManager without being queued. **Note** If the performance value is set too high, then phone registrations could slow the Cisco CallManager's real time response. If set too low, the total time for a large group of phones to register will be slow.
MediaExchangeInterfaceCaps Timeout	Default: 8	Specifies the time for a device to send capabilities for a media connection. Valid value is any numeric value.
MediaExchangeTimeout	Default: 5	Specifies the time for a media connection to be made. Valid value is any numeric value.
MessageWaitingOffDN		Specifies the directory to which calls from a voicemail system are directed to disable or turn off the message waiting light for the specified calling party.
MessageWaitingOnDN		Specifies the directory number to which calls from a voicemail system are directed to enable or turn on a message waiting light for the specified calling party.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
NumberingPlanInfo	Default: 1	Gives some control over the ISDN Numbering Plan Information field on the Called Party Number. This control that is available for H.323 calls and ISDN calls has the following characteristics: • If set to 0: disabled • If set to 1: a check determines what the ISDN Type of Number on the called party information element is. If the Type of Number is set to UNKNOWN, the Numbering Plan Information is also set to UNKNOWN. • If set to 2: The Numbering Plan Information is set to a PRIVATE PLAN, and the Type of Number is set to UNKNOWN.
OutOfBandwidthText	Default: Not Enough Bandwidth	Designates the text to be displayed when the call cannot be placed because not enough bandwidth exists.
OutStandingIFramesK	Default: 7	Specifies the maximum number of outstanding I-Frames that are not acknowledged. Valid value is any numeric value.
OverlapReceivingForPriFlag	Default: F	Cisco strongly recommends using the default setting for this parameter.
PreferredG711Millisecond PacketSize	Default: 20	Specifies the preferred time set for delivering packets. To avoid adding latency, never set value for this parameter below 20.
PreferredG723Millisecond PacketSize	Default: 30	Specifies the preferred time set for delivering packets. To avoid adding latency, never set this parameter below 20.
PreferredG729Millisecond PacketSize	Default: 20	Specifies the preferred time set for delivering packets. To avoid adding latency, never set this parameter below 20.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
RASMulticastFlag	Default: F	Allows multicast registration of RAS. **Caution:** Do not set this parameter unless you want all RAS devices to register to Cisco CallManager.
RedirectingNumIEDeliveryFlag	Default: F	Applies to the SETUP message only on all protocols for the digital access gateway. When the flag is set to True, the SETUP message includes RedirectingNumberIE to indicate the first redirecting number and the redirecting reason of the call when Call Forward happens.
ReorderRouteList	Default: F	Specifies when set to true that devices that have the same selection order in a route group, and are associated with a route list, are re-ordered when a call is placed using the associated route list.
SdlListeningPort	Default: 8002	You should not change this value.
SdlMaxUnHandledExceptions	Default: 5	Specifies the maximum number of Cisco CallManager exceptions before Cisco CallManager stops running.
SdlTraceDataFlags	Default: 0x00000110	Provides a bit mask used for enabling tracing of SDL non-application-specific components or for modifying the behavior of SDL tracing.
SdlTraceDataSize	Default: 100	Used in the SDL layer. Parameter tells SDL trace processing how many bytes of raw data to dump from each signal that it traces.
SdlTraceFilePath	Default: c:\Program File\Cisco\Trace\SDL\	Specifies the absolute path where SDL trace files are located.
SdlTraceFlag	Default: T	Indicates whether SDL traces should be turned on or off. It is set to true by default, so that SDL traces are collected by default.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
SdlTraceMaxLines	Default: 10000	Specifies the maximum number of lines in each file before starting the next file. Valid value is any numeric value.
SdlTraceTotalNumFiles	Default: 100	Specifies the maximum number of files before restarting file count and overwriting old files.
SdlTraceTypeFlags	Default: 0x00004B05	Provides an application-specified bit mask used for the application tracing and signal tracing.
SilenceSuppressionSystemWide	Default: T	Determines whether silence suppression is disabled for all devices on a system-wide basis.
SilenceSuppressionWith Gateways	Default: T	Determines whether silence suppression is disabled for all devices on gateways.
StableIn4Flag	Default: F	Used for certification testing. Cisco recommends you do not change the default value.
Station2ndKeepaliveInterval	Default: 60	Designates the Keepalive Interval for backup server.
StationKeepaliveInterval	Default: 30	Designates the number of seconds between keepalive messages sent to Cisco IP Phones (stations). Use any numeric value starting at 30. Cisco recommends you do not use the 0 value.
StatisticsEnabled	Default: T	Determines whether system statistics are generated. Valid values are F = not generated T = generated
StatusEnqPollFlag	Default: F	Sends status enquiries to H.323 devices to check for out-of-range status. If the device is determined to be out of range, the call terminates. If the device is within range, sending these status enquiries does not disrupt call connection.
StripPoundCalledPartyFlag	Default: T	Enables the stripping of # sign digits from the called party IE, of the inbound and outbound Q.931 and H.225 SETUP message.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
StopRoutingOnOutOfBandwidthFlag	Default: F	Specifies when set to true, that if a call being routed through a route list detects the associated "cause" during the release of the call, no re-routing to the next device in the route list is attempted and the call is released with the associated cause.
StopRoutingOnUnallocatedNumberFlag	Default: F	Specifies when set to true, that if a call being routed through a route list detects the associated "cause" during the release of the call, no re-routing to the next device in the route list is attempted and the call is released with the associated cause.
StopRoutingOnUserBusyFlag	Default: F	Specifies when set to true, that if a call being routed through a route list detects the associated "cause" during the release of the call, no re-routing to the next device in the route list is attempted and the call is released with the associated cause.
SuppressOutOfChansEvents	Default: T	Used for debugging purposes only. Cisco strongly recommends that you do not change the default value. Determines whether out of channels responses will be sent to event processing.
TimerSendProgress_msec	Default: 3000	Sometimes the other end does not get back fast enough with the Alert, Progress, or Connect while in Call_initiated state.
TimerT1Frame_msec	Default: 2000	Valid value is any numeric value in 1/8 second ticks.
TimerT200_msec	Default: 1000	Designates Layer 2 Retransmission time. This is the only timer value that is in 1/40-second ticks; all other values are in 1/8 second ticks. Valid value is any numeric value in 1/40-second ticks.
TimerT203_msec	Default: 10000	Designates Layer 2 Keepalive interval. Valid value is any numeric value in 1/8 second ticks.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
TimerT301_msec	Default: 180000	Specifies User-(Call Delivered) ALERTING Received, Network-(Call Received) ALERTING Received. Valid value is any numeric value in 1/8-second ticks.
TimerT302_msec	Default: 10000	Specifies interdigit timeout for User-(Overlap Receiving) SETUP ACK sent, Network-(Overlap Sending) SETUP ACK sent. Valid value is any numeric value in 1/8-second ticks.
TimerT303_msec	Default: 4000	Specifies User-(Call Initiated) SETUP sent, Network-(Call Present) SETUP sent. Valid value is any numeric value in 1/8-second ticks.
TimerT304_msec	Default: 20000	Specifies User-(Overlap Sending) SETUP ACK received, Network-(Overlap Receiving) SETUP ACK received. Valid value is any numeric value in 1/8-second ticks.
TimerT305_msec	Default: 30000	Specifies User-(Disconnect Request) DISCONNECT sent, Network-(Disconnect Indication) DISCONNECT without progress ind sent. Valid value is any numeric value in 1/8-second ticks.
TimerT306_msec	Default: 30000	Specifies Network-(Disconnect Indication) DISCONNECT with progress ind sent. Valid value is any numeric value in 1/8-second ticks.
TimerT307_msec	Default: 180000	Specifies Network-(Null) SUSPEND ACK sent. Valid value is any numeric value in 1/8-second ticks.
TimerT308_msec	Default: 4000	Specifies User-(Release Request) RELEASE sent, Network-(Release Request) RELEASE sent. Valid value is any numeric value in 1/8-second ticks.
TimerT309_msec	Default: 90000	Specifies User/Network-(Any stable State) Datalink lost. Valid value is any numeric value in 1/8-second ticks.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
TimerT310_msec	Default: 10000	Specifies User-(Outgoing Call Proceed) CALL PROCEED received, Network-(Incoming Call Proceed) CALL PROCEED received. Valid value is any numeric value in 1/8-second ticks.
TimerT313_msec	Default: 4000	Specifies User-(Connect Request) CONNECT sent. Valid value is any numeric value in 1/8-second ticks.
TimerT316_msec	Default: 120000	Specifies (Restart Request) RESTART sent. Valid value is any numeric value in 1/8-second ticks.
TimerT317_msec	Default: 300000	Valid value is any numeric value in 1/8 second ticks.
TimerT321_msec	Default: 30000	Specifies (Any state) D-Channel failure. Valid value is any numeric value in 1/8-second ticks.
TimerT322_msec	Default: 4000	Specifies (Any state) STATUS ENQUIRY sent. Valid value is any numeric value in 1/8-second ticks.
TimerTStatusEnqPoll_msec	Default: 10000	Specifies (Any state) Timer initially used to send a StatusEnq to check whether Symbol H.323 phone is still attached. Valid value is any numeric value in 1/8-second ticks.
TimeToDelayBeforeSendingAnAck_msec	Default: 0	Specifies the time to wait to send a receiver ready (RR) acknowledgement on a given non poll I-Frame. Valid value is any numeric value in 25-millisecond ticks. 0 = send immediately.
ToneOnCallForward	Default: T	Designates flag to set tone on call forward on or off.
ToneOnHoldTime	Default: 10 Min: 5 Max: 99999	Specifies the number of seconds to play some type of tone when a call is on hold (minimum of 5 seconds).

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
TosBitPosition	Default: 3	Allows setting a bit between bit 0 and bit 4 along with IPTOS settings to make it compatible with Cisco DIFF-SERV (Differentiated Service).
ToSendH225UserInfoMsg	Default: F	Specifies whether Cisco CallManager sends H225 user information message. When ToSendH225UserInfoMsg = false Cisco CallManager does not send out the H225UserInformation message. When ToSendH225UserInfoMsg = true Cisco CallManager sends out the H225UserInformation message.
TypeOfCalledNumberForH225Devices	Default: 0	Denotes the type of number (TON) for H225 devices. The default value is 0, which denotes the value sent by call control. A value of 1 indicates an unknown number. A value of 2 denotes a national number, and 3, an international number.
Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.		
UnknownCallerId		Designates the directory number to be displayed. Valid value is any numeric value representing a general number for your system (if you wish to provide caller ID functionality to called parties). Valid value is any valid telephone number.
UnknownCallerIdFlag	Default: T	Relates to the Unknown CallerId field. Cisco strongly recommends using the default setting because this flag can now be configured using Cisco CallManager Administration.
UnknownCallerIdText	Default: Unknown	Specifies the text to be displayed to called parties who have caller ID capability. The first line is 20 characters, and the second line is 14 characters. Use a character setup that can be broken into two lines, each of which has the specified number of characters per line.

Table 10-1 Cisco CallManager Service Parameters (continued)

ParamName	Values	Description
UserUserIEStatus	Default: F	Designates whether the user-to-user information element (UUIE) is passed in the system. Enabling UUIE status allows ISDN PRI messages to include them on outbound PRI calls.
VoiceMail	Default: F	Specifies the number that is dialed when the "message" button on the phone is pressed.
VoiceMailMaximumHopCount	Default: 12	Used together with AdvancedCallForwardHopFlag, allows the Cisco CallManager to select the next available voicemail port by skipping the busy or unregistered voicemail ports. **Note** Set VoiceMailMaximumHopCount to the number of voicemail ports in the system.

Related Topics

- Configuring Service Parameters, page 35-1

Cisco TFTP Service Parameters

Caution Never add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Note If you must modify trace parameters, Cisco strongly recommends doing so from the Trace Configuration page. Refer to the "Configuring Trace" section on page 36-1 for more information.

Table 10-2 provides service parameters configured for Cisco TFTP.

Table 10-2 Cisco TFTP Service Parameters

ParamName	Values	Description
AnalogTcpPort	Default: 2002	Not used under normal circumstances.
CallManagerIp	Default: 127.0.0.1	Not used under normal circumstances.
CallManagerIpTrack	Default: T	Not used under normal circumstances.
ChangeUDPPort	Default: 3000	Do not change this parameter.
DigitalTcpPort	Default: 2001	Not used under normal circumstances.
FileDelete	Default: T	Flag that enables configuration file deletion to ensure deleted devices do not still get configuration files.
FileLocation	Default: c:\Program Files\Cisco\TFTPpath	String that represents the primary path for building and serving files.
PhoneTcpPort	Default: 2000	Not used under normal circumstances.
ServerIpTrack	Default: T	When set to True, Cisco CallManager uses default local IP address. Do not change this parameter.

Table 10-2 Cisco TFTP Service Parameters (continued)

ParamName	Values	Description
TFTPIp	Default: 127.0.0.1	String that represents the IP address of the TFTP server if ServerIpTrack is false.
Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.		
UseDb	Default: T	Do not change this parameter.

Related Topics

- Configuring Service Parameters, page 35-1
- Configuring Cisco TFTP, page 31-1
- Configuring Trace, page 36-1
- Understanding Trace Configuration, page 36-2
- Table 36-4 provides the trace parameters for Event Type, User Mask, and Date and Time, page 36-9

Cisco Messaging Interface Service Parameters

Caution Do not add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Note If you must modify trace parameters, Ciscostrongly recommends doing so from the Trace Configuration page. Refer to the "Configuring Trace" section on page 36-1 for more information.

Table 10-3 provides service parameters configured for Cisco Messaging Interface (CMI).

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters

ParamName	Values	Description
BackupCallManagerName		This parameter defines the names of the Cisco CallManagers that are going to be used for the CMI backup. You can use either the name of a Cisco CallManager or its IP address.
BaudRate	Recommended default: 9600	This parameter defines the EIA/TIA-232 connection that Cisco CallManager uses to connect to the voicemail system. **Note** Many voicemail systems can be configured to use different baud rates, but the one shown here will frequently be correct.
CallManagerName	If the default is left blank, CMI will choose the Cisco CallMan ager, if existing on a local machine.	This parameter defines the names of the Cisco CallManagers that are going to be used for the primary CMI. You can use either the name of a Cisco CallManager or its IP address.
DataBits	Default: 7	This parameter defines the EIA/TIA-232 connection that Cisco CallManager uses to connect to the voicemail system..

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters (continued)

ParamName	Values	Description
DialingPlan		CMI requires this parameter as one of four to register an intercept for the voicemail system with which CMI is going to work. **Note** Small systems without a complex dialing plan usually only need the VoiceMailDn parameter. The remaining parameters, DialingPlan, RouteFilter, and VoiceMailPartition, will default to empty strings.
InputDnSignificantDigits	Default: 10	This parameter accommodates the differences between voicemailbox numbers and directory numbers (DNs). If a legacy voicemail system has mailbox numbers that are no longer than the DNs on the system, use this parameter to strip the most-significant digits. The numeric value of this parameter indicates how many digits should be used.
KeepAliveDn	None	For this string parameter for most voicemail systems, a value of F is acceptable. However, some Octel systems periodically send an invalid DN specifically for the purpose of verifying that the attached Cisco CallManager is functioning properly. In this case, you can turn off ValidateDns if you know the DN that the Octel system will use as a keepalive one. By programming that DN into the KeepAliveDn parameter, you will ensure that the invalid DN message is returned to the voicemail system when needed.

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters (continued)

ParamName	Values	Description
MwiSearchSpace		This parameter designates the search space to use when determining the device to be affected by the MWI lamp.
OutputDnFormat	Default: %010s	Because this parameter is used to format the DNs sent to the voicemail system, most numbers passed to the voicemail system are formatted using this parameter.
OutputExternalFormat	Default: %010s	Because this parameter is also used to format the DNs sent to the voicemail system, most numbers passed to the voicemail system are formatted using this parameter.
Parity	Default: Even	This parameter defines the EIA/TIA-232 connection that CMI uses to connect to the voicemail system. **Note** Possible parity settings include None, Even, Odd, Mark, or Space. Settings are usually Even and None, Mark and Space rarely get used. Using just the first character of the parity name also works.

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters (continued)

ParamName	Values	Description
RouteFilter		CMI requires this parameter as one of four to register an intercept for the voicemail system with which CMI is going to work. **Note** Small systems without a complex dialing plan usually only need the VoiceMailDn parameter. The remaining parameters, DialingPlan, RouteFilter, and VoiceMailPartition, will default to empty strings.
SerialPort	Default: COM1	This parameter defines the EIA/TIA-232 connection that CMI uses to connect to the voicemail system. **Note** Use the SerialPort name that is the same name that you see in Device Manager under NT.

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters (continued)

ParamName	Values	Description
SsapiKeepAliveInterval	Default: 30	This numeric parameter specifies keepalive message interval. During normal operations when CMI is attached to a Cisco CallManager, CMI sends a keepalive message to the Cisco CallManager at the rate (in seconds) this parameter specifies. **Note** Do not change his parameter from the default value unless directed to do so by the Cisco Technical Assistance Center (TAC).
StopBits	Default: 1	This parameter defines the EIA/TIA-232 connection that CMI uses to connect to the voicemail system.
ValidateDns	Default: T	When CMI receives incoming lamp commands from the voicemail system, it normally validates the associated DN against the NumPlan table in an attempt to verify that the DN matches an existing DN known to Cisco CallManager. If the DN is not found in NumPlan, CMI sends an invalid DN message is sent to the voicemailbox. **Note** On a system with a lot of traffic to and from the voicemail system, you may choose to skip this validation process by setting the ValidateDns parameter default to F.

Table 10-3 Cisco Messaging Interface (CMI) Service Parameters (continued)

ParamName	Values	Description
Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.		
VoiceMailDn		This parameter represents the voicemail access number.
VoiceMailPartition		CMI requires this parameter as one of four to register an intercept for the voicemail system with which CMI is going to work. The voicemail DN resides in this partition.

Related Topics

- Configuring Service Parameters, page 35-1
- Cisco Messaging Interface, page 30-1
- Most Commonly Changed CMI Service Parameters, page 30-2
- Configuring Trace, page 36-1
- Understanding Trace Configuration, page 36-2
- Table 36-4 provides the trace parameters for Event Type, User Mask, and Date and Time, page 36-9

Cisco IP Voice Media Streaming Service Parameters

Caution Do not add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Table 10-4 provides service parameters configured for Cisco IP Voice Media Streaming.

Table 10-4 Cisco IP Voice Media Streaming Service Parameters

ParamName	Values	Description
CFB:OrphanStreamTimeout	Default: 300	Specifies time (number of seconds) for orphaned CFB calls to stay up when a Cisco CallManager goes down.
ChangeUDPPort	Default: 3000	Do not change this parameter.
MTP:OrphanStreamTimeout	Default: 300	Specifies time (number of seconds) for orphaned calls or conferences to stay up when a Cisco CallManager goes down.
MTP:RunFlag	Default: F	This flag (when set) enables MTP.
Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.		

Related Topics

- Configuring Service Parameters, page 35-1
- Configuring Media Termination Point, page 34-1
- Planning Your MTP Configuration, page 34-3
- Avoiding Call Failure/User Alert, page 34-4
- Configuring Trace, page 36-1

Cisco Database Layer Service Parameters

Caution Do not add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Table 10-5 provides service parameter configured for the Database Layer.

Table 10-5 Cisco Database Layer Service Parameter

ParamName	Values	Description
MaxCdrRecords		Specifies the maximum number of CDR records to keep. If the CDR tables get too full (the number of records reaches this maximum number), the oldest records are deleted and a message is sent to the Event log. This check occurs once a day.

Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.

Related Topics

- Configuring Service Parameters, page 35-1
- Most Commonly Changed CMI Service Parameters, page 30-2
- Configuring Trace, page 36-1
- Configuring Cisco CallManager, page 12-1
- Configuring Cisco CallManager Groups, page 13-1

Cisco Telephony Call Dispatcher Service Parameters

Caution Do not add or delete service parameters unless directed to do so by the Cisco Technical Assistance Center (TAC). Some changes to service parameters may cause system failure.

Table 10-6 provides service parameters configured for Cisco Telephony Call Dispatcher.

Table 10-6 Cisco Telephony Call Dispatcher Parameters

ParamName	Values	Description
CCN Line State Port	Default: 3223	Designates the port number of the TCP/IP port in Cisco CallManager that is used by the line state server to register and receive line and device information.
LSS Access Password	Default: private	Designates the default password used at registration to authenticate line state server.
LSS Listen Port	Default: 3221	Designates the TCP port where WA clients register with TcdSrv for Line and Device state information.
TCDServ Listen Port	Default: 4321	Designates the TCP port where WA clients register with TcdSrv for Call Control.
Refer to the "Configuring Trace" section on page 36-1 for descriptive and configuration information on all trace parameters.		

Related Topics

- Configuring Service Parameters, page 35-1
- Configuring Cisco CallManager, page 12-1