



# Configure Call Throttling

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## Call Throttling Overview

Call Throttling allows your system to automatically throttle or deny new call attempts. The system takes this action when conditions cause users to experience a delay in the interval between going off hook and receiving a dial tone.

Some factors that can result in this delay are as follows:

- Heavy call activity
- Low CPU availability
- Routing loops
- Disk I/O limitations
- Disk fragmentation

The system uses the values that are specified in the call throttling parameters to determine a possible delay to dialtone and also to determine when conditions no longer require call throttling.

When throttling is necessary to prevent excessive delay to dialtone, the system enters a Code Yellow state and new call attempts are throttled (denied).

When the system calculates the delay to dialtone as being over the threshold that is configured in the call throttling service parameters, Unified Communications Manager rejects new calls. When call throttling activates, a user who attempts a new call receives a reorder tone and, depending on the phone model, may also receive a prompt on the phone display.

Call throttling effectively prevents the type of excessive delays that can cause a user to complain to the system administrator or question whether the system is down or the phone is broken. Your system constantly monitors the system to anticipate when such latency could occur.

When the delay to dialtone is within the guidelines of the call throttling service parameters, Unified Communications Manager stops throttling calls by exiting the Code Yellow state and new calls are again allowed.

# Call Throttling Configuration Task Flow

## Procedure

	Command or Action	Purpose
<b>Step 1</b>	<a href="#">Configure Call Throttling, on page 2</a>	Enables Call throttling automatically when your system detects conditions such as heavy call activity, low CPU availability, and disk fragmentation.
<b>Step 2</b>	<a href="#">Configure Memory Throttling, on page 2</a>	Configures memory throttling for your system.

## Configure Call Throttling

Call throttling occurs automatically when your system detects conditions such as heavy call activity, low CPU availability, and disk fragmentation. The system automatically exits throttling when these conditions are fixed. Call Throttling is configured via advanced service parameters. For many deployments, the default settings are sufficient.



**Caution** We recommend that you not modify call throttling parameters unless advised to do so by customer support.

## Procedure

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- Step 1** From Cisco Unified CM Administration, choose **System > Service Parameters**.
- Step 2** From the **Server** drop-down list, choose a server.
- Step 3** From the **Service** drop-down list, choose **Cisco CallManager**.
- Step 4** Click **Advanced**.
- Step 5** Under **Call Throttling**, configure values for the cll throttling service parameters. For parameter help descriptions, click the parameter name in the GUI.
- Code Yellow Entry Latency
  - Code Yellow Exit Latency Calendar
  - Code Yellow Duration
  - Max Events Allowed
  - System Throttle Sample Size
- Step 6** Click **Save**.
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## Configure Memory Throttling

Use this procedure to configure memory throttling for your system.

## Procedure

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- Step 1** From Cisco Unified CM Administration, choose **System > Service Parameters**.
  - Step 2** From the **Server** drop-down list, select a Unified Communications Manager server.
  - Step 3** From the **Service** drop-down list, select **Cisco CallManager**.
  - Step 4** Click **Advanced**.
  - Step 5** Set the **Enable Memory Throttling** parameter to **True**.
  - Step 6** Configure values for the additional service parameters in the **Memory Throttling** area. For parameter help, click the parameter name in the GUI.
  - Step 7** Click **Save**.
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