Call Admission Control (CAC) Enhancement

The call admission control (CAC) Enhancement feature enhances the CAC mechanism to update the maximum number of incoming or outgoing connections for a dial peer and the bandwidth based on the media flow.

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Information About CAC Enhancement

The CAC enhancement accounts for local call and bandwidth based on the media flowing locally or to the WAN side. In NanoCUBE call flows, if the media flows locally in NanoCUBE then the call is accounted as a local call and the maximum connections and bandwidth values are not updated. The local calls on NanoCUBE do not increment the count of the maximum connections counter.

How to Configure CAC Enhancement

Configuring CAC Enhancement

Perform the following task to exempt local media calls and bandwidth from being updated on a dial peer.

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **dial-peer voice** *tag* **voip**
4. **max-conn** *number* **exempt-local-media**
5. **session protocol sipv2**
6. **max-bandwidth** *value* **exempt-local-media**
7. **end**

DETAILED STEPS

	Command or Action	Purpose
Step 1	**enable** **Example:** `Device> enable`	Enables privileged EXEC mode. • Enter your password if prompted.
Step 2	**configure terminal** **Example:** `Device# configure terminal`	Enters global configuration mode.
Step 3	**dial-peer voice** *tag* **voip** **Example:** `Device(config)# dial-peer voice 2 voip`	Enters dial peer configuration mode.

Step 4	**max-conn** *number* **exempt-local-media**
	
	Example:
	`Device(config-dial-peer)# max-conn 10`
	`exempt-local-media`
		Sets the maximum connections value for the dial peer to be not updated for local media calls.

	Command or Action	**Purpose**
Step 5	**session protocol sipv2** **Example:** `Device(config-dial-peer)# session protocol sipv2`	Specifies the SIP Version 2 protocol for calls between local and remote routers using the packet network.
Step 6	**max-bandwidth** *value* **exempt-local-media** **Example:** `Device(config-dial-peer)# max-bandwidth 20 exempt-local-media`	Sets the bandwidth threshold value to be not accounted for local media calls.
Step 7	**end** **Example:** `Device(config-dial-peer)# end`	Returns to privileged EXEC mode.

Verifying CAC Enhancement

Perform this task to verify the configuration for the CAC enhancement. The **show** commands can be entered in any order.

SUMMARY STEPS

1. **enable**
2. **show dial-peer voice** *tag*
3. **show dial-peer voice** *tag*

DETAILED STEPS

Step 1 **enable**

Enables privileged EXEC mode.

Example:
`Device> ` **enable**

Step 2 **show dial-peer voice** *tag*

Displays the information for voice dial peers.

Example:
Device# **show dial-peer voice 302 include | bandwidth/maximum**

```
bandwidth/maximum = 0/200 Kilo bits per second
```

Step 3   **show dial-peer voice** *tag*
Displays the information for voice dial peers.

Example:
Device# **show dial-peer voice 302 include | connections/maximum**

```
connections/maximum = connections/maximum = 0/2
```

Configuration Examples for CAC Enhancement

Example: Configuring the CAC Enhancement

```
Device> enable
Device# configure terminal
Device(config)# dial-peer voice 2 voip
Device(config-dial-peer)# max-conn 10 exempt-local-media
Device(config-dial-peer)# session protocol sipv2
Device(config-dial-peer)# max-bandwidth 20 exempt-local-media
Device(config-dial-peer)# end
```

Feature Information for CAC Enhancement

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1: Feature Information for CAC Enhancement

Feature Name	Releases	Feature Information
Nano CUBE -- CAC Enhancement	15.3(3)M	The call admission control (CAC) Enhancement feature enhances the CAC mechanism to update the maximum number of incoming or outgoing connections for a dial peer and the bandwidth based on the media flow.