

## cable detect through call application stats

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## cable-detect

To enable cable polling on an analog Foreign Exchange Office (FXO) voice port, use the **cable-detect** command in voice port configuration mode. To disable cable polling, use the **no** form of this command.

#### cable-detect no cable-detect

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

Cable polling on an analog FXO voice port is disabled.

#### **Command Modes**

Voice port configuration (config-voiceport)

#### **Command History**

Release	Modification
15.1(1)T	This command was introduced.
15.2(4)M	This command was modified. Cable polling was extended to analog Foreign Exchange Office End Ground Start (FXOGS), Foreign Exchange Office End Loop Start (FXOLS), Foreign Exchange Station End Ground Start (FXSGS), and Foreign Exchange Station End Loop Start (FXSLS) voice ports.

#### **Usage Guidelines**

The FXOLS voice port is in the busyout state if the Digital Signal Processor (DSP) detects that no cable is connected between the analog FXSLS and FXOLS ports. If you have configured the **no cable-detect** command and the analog FXOLS voice port is in busyout state because no cable is connected, the Cisco software stops polling the cable connection. The analog FXOLS voice port remains in the busyout state until you use the **shutdown** and **no shutdown** commands to switch the analog FXOLS voice port to the idle state. The **cable-detect** command supports loop start and Central Automatic Message Accounting (CAMA) signaling.

Unlike FXOLS, for analog FXOGS, FXSLS, and FXSGS voice ports, the voice port state does not change when the cable status changes from connected to disconnected or disconnected to connected; only a syslog message is printed to indicate the new cable status. The **cable-detect** command will not show up under the voice port if the analog voice interface does not support cable polling.

For analog FXOGS, the **cable-detect** command can be configured on all FXO voice interface cards.

This command can be configured on the following analog FXOLS voice interface cards (VICs):

- VIC2-2FXS
- VIC2-4FXS
- EM-HDA-6FXO
- EM-HDA-3FXS-4FXO
- EM-HDA-4FXO

For analog FXSLS and FXSGS, this command can be configured on the following FXS voice interface cards:

VIC3-2FXS/DID

- VIC3-4FXS/DID
- VIC3-2FXS-E/DID
- EM3-HDA-8FXS/DID
- SM-D-72FXS
- SM-D-48FXS-E
- Onboard analog FXS on Cisco 8xx platforms
- Onboard analog FXS on Cisco VG20x and VG2435 platforms

#### **Examples**

The following example shows how to enable cable polling on an FXOLS voice port:

Device> enable
Device# configure terminal
Device(config)# voice-port 1/2/3
Device(config-voiceport)# cable-detect

Command	Description
shutdown	Changes the state of the voice ports for a specific voice interface card to offline.

## cable-detect-poll-timer

To configure the cable polling timer value for background polling processes on an analog voice port, use the **cable-detect-poll-timer** command in voice service configuration mode. To disable the polling timer, use the **no** form of this command.

cable-detect-poll-timer timer-value no cable-detect-poll-timer

#### **Syntax Description**

1440.

#### **Command Default**

The cable polling on analog voice ports is disabled.

#### **Command Modes**

Voice service configuration (conf-voi-serv)

#### **Command History**

Release	Modification
15.2(4)M	This command was introduced.

#### **Usage Guidelines**

Use the **cable-detect-poll-timer** command to configure the cable polling timer value on analog Foreign Exchange Office End Ground Start (FXOGS), Foreign Exchange Office End Loop Start (FXOLS), Foreign Exchange Station End Ground Start (FXSGS), and Foreign Exchange Station End Loop Start (FXSLS) voice ports.

#### **Examples**

The following example shows how to enable cable polling on an FXOLS voice port:

Device> enable
Device# configure terminal
Device(config)# voice service pots
Device(conf-voi-serv)# cable-detect-poll-timer 100

	Command	Description
•	cable-detect	$Enables\ cable\ polling\ on\ analog\ FXOGS,\ FXOLS,\ FXSGS,\ and\ FXSLS\ voice\ ports.$

## cac\_off

To disable connection admission control (CAC), use the **cac\_off**command in interface-ATM-VC configuration mode. To enable CAC, use the **no** form of this command.

cac\_off no cac\_off

#### **Syntax Description**

This command has no keywords or arguments.

#### **Command Default**

Call admission control is enabled.

#### **Command Modes**

Interface-ATM-VC configuration

#### **Command History**

Release	Modification
12.3(4)XD	This command was introduced.
12.3(7)T	This command was integrated into Cisco IOS Release 12.3(7)T.

#### **Usage Guidelines**

Connection admission control (CAC) is a set of actions taken by each ATM switch during connection setup to determine whether the requested quality of service (QoS) will violate the QoS guarantees for established connections. CAC reserves bandwidth for voice calls, however, the bandwidth required when the lossless compression codec (LLCC) is used is dynamic and usually less than what is generally reserved by CAC. Disabling CAC can help in better utilization of bandwidth when LLCC is used.

#### **Examples**

The following example disables call admission control on a PVC:

interface ATM0/IMA1.1 point-to-point
pvc test1 15/135
 cac\_off

# cache (neighbor BE)

To configure the local border element (BE) to cache the descriptors received from its neighbors, use the **cache** command in neighbor BE configuration mode. To disable caching, use the **no** form of this command.

cache no cache

### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

Caching is not enabled

#### **Command Modes**

Neighbor BE configuration (config-annexg-neigh)

#### **Command History**

Release	Modification
12.2(2)XA	This command was introduced.
12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T. Support for the Cisco AS5300 universal access server, Cisco AS5350, Cisco AS5400 is not included in this release.
12.2(2)XB1	This command was implemented on the Cisco AS5850.
12.2(11)T	This command was integrated into Cisco IOS Release 12.2(11)T.

#### **Usage Guidelines**

Use this command to configure the local BE to cache the descriptors received from its neighbor. If caching is enabled, the neighbors are queried at the specified interval for their descriptors.

#### **Examples**

The following example shows the border element enabled to cache the descriptors from its neighbors.

```
Router(config-annexg-neigh) # id neighbor-id
Router(config-annexg-neigh) # cache
```

Command	Description
id	Configures the local ID of the neighboring BE.
port	Configures the neighbor's port number that is used for exchanging Annex G messages.
query-interval	Configures the interval at which the local BE queries the neighboring BE.

# cache reload time (global application configuration mode)

To configure the router to reload scripts from cache on a regular interval, use the **cachereloadtime** command in global application configuration mode. To set the value to the default, use the **no** form of this command.

cache reload time bg-minutes no cache reload time

#### **Syntax Description**

bg -minutes	Number of minutes after which the background process is awakened. This background process checks the time elapsed since the script was last used and whether the script is current:
	• If the script has not been used in the last "unload time," it unloads the script and quits. The unload time is not configurable.
	• If the script has been used, the background process loads the script from the URL. It compares the scripts, and if they do not match, it begins using the new script for new calls.

#### **Command Default**

30 minutes

#### **Command Modes**

Global application configuration

#### **Command History**

Release	Modification
12.3(14)T	The <b>callapplicationcachereloadtime</b> command was moved to global application configuration mode and changed to <b>cachereloadtime</b> .

#### **Examples**

The following example displays the **cachereloadtime** command configured to specify 15 minutes before a background process is awakened:

Enter application configuration mode to configure applications and services:

application

Enter global application configuration mode:

global

Configure the cache reload time:

cache reload time 15

Command	Description
call application cache reload time	Configures the router to reload the MGCP scripts from cache on a regular interval.
show call application voice	Displays all Tcl or MGCP scripts that are loaded.

## cadence

To define the tone-on and tone-off durations for a call-progress tone, use the **cadence** command in call-progress dualtone configuration mode. To restore the default cadence, use the **no** form of this command.

### **Syntax Description**

cycle-1-on-time	Tone-on duration for the first cycle of the cadence pattern, in milliseconds (ms). Range is from 0 to 1000. The default is 0.
cycle-1-off-time	Tone-off duration for the first cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-2-on-time	(Optional) Tone-on duration for the second cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-2-off-time	(Optional) Tone-off duration for the second cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-3-on-time	(Optional) Tone-on duration for the third cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-3-off-time	(Optional) Tone-off duration for the third cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-4-on-time	(Optional) Tone-on duration for the fourth cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
cycle-4-off-time	(Optional) Tone-off duration for the fourth cycle of the cadence pattern, in milliseconds. Range is from 0 to 1000. The default is 0.
continuous	Continuous call-progress tone is detected.

### **Command Default**

Continuous

### **Command Modes**

Call-progress dualtone configuration

### **Command History**

Release	Modification
12.1(5)XM	This command was introduced on the Cisco 2600 series, Cisco 3600 series, and the Cisco MC3810.
12.2(2)T	This command was implemented on the Cisco 1750 and integrated into Cisco IOS Release 12.2(2)T.

### **Usage Guidelines**

This command specifies the cadence for a class of custom call-progress tones.

You must define each cadence that you want a voice port to detect. Reenter the command for each additional cadence to be detected.

You must associate the class of custom call-progress tones with a voice port for this command to affect tone detection.

#### **Examples**

The following example defines a cadence for a busy tone in the custom-cptone voice class with the name "country-x." This example defines 500 ms tone on and 500 ms tone off.

```
voice class custom-cptone country-x
dualtone busy
cadence 500 500
```

The following example configures detection of the default frequency and cadence values for the busy tone in the custom-cptone voice class with the name "country-x". The default frequency is a 300 Hz tone, and the default cadence is continuous.

```
voice class custom-cptone country-x
dualtone busy
no cadence
no frequency
```

Command	Description
supervisory custom-cptone	Associates a class of custom call-progress tones with a voice port.
voice class custom-cptone	Creates a voice class for defining custom call-progress tones.
voice class dualtone-detect-params	Modifies the boundaries and limits for custom call-progress tones defined by the <b>voiceclasscustom-cptone</b> command.

## cadence-list

To specify a tone cadence pattern to be detected, use the **cadence-list**command in voice-class configuration mode. To delete a cadence pattern, use the **no** form of this command.

cadence-list cadence-id cycle-1-on-time cycle-1-off-time [cycle-2-on-time cycle-2-off-time] [cycle-3-on-time cycle-3-off-time] [cycle-4-on-time cycle-4-off-time]

no cadence-list cadence-id

#### **Syntax Description**

cadence-id	A tag to identify this cadence list. The range is from 1 to 10.
cycle-1-on-time	The tone duration for the first cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-1-off-time	The silence duration for the first cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-2-on-time	(Optional) The tone duration for the second cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-2-off-time	(Optional) The silence duration for the second cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-3-on-time	(Optional) The tone duration for the third cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-3-off-time	(Optional) The silence duration for the third cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-4-on-time	(Optional) The tone duration for the fourth cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.
cycle-4-off-time	(Optional) The silence duration for the fourth cycle of the cadence pattern. Range is from 0 to 1000 (0 milliseconds to 100 seconds). The default is 0.

#### **Command Default**

No cadence pattern is configured.

#### **Command Modes**

Voice-class configuration (config-voice-class)

#### **Command History**

Release	Modification
12.1(3)T	This command was introduced on the Cisco 2600 series, Cisco 3600 series, the Cisco MC3810.

## **Usage Guidelines**

A cadence list enables the router to match a complex tone pattern from a PBX or public switched telephone network (PSTN). A tone is detected if it matches any configured cadence list. You can create up to ten cadence lists, enabling the router to detect up to ten different tone patterns. If the tone to be detected consists of only one on-off cycle, you can configure this in either of two ways:

• Create a cadence list using only the cycle-1-on-time and cycle-1-off-timevariables.

• Use the cadence-max-off-time and cadence-min-on-time commands.

You must also configure the times of the **cadence-max-off-time** and **cadence-min-on-time**commands to be compatible with the on and off times specified by the **cadence-list** command. The time of the **cadence-max-off-time** must be equal to or greater than the longest off-time in the cadence list; the **cadence-min-on-time** must be equal to or less than the shortest on-time in the cadence list.

#### **Examples**

The following example shows configuration of cadence list 1 with three on/off cycles and cadence list 2 with two on/off cycles for voice class 100:

```
voice class dualtone 100
  cadence-list 1 100 100 300 300 100 200
  cadence-list 2 100 200 100 400
```

Command	Description
cadence-max-off-time	Specifies the maximum off duration for detection of a tone.
cadence-min-on-time	Specifies the minimum on duration for detection of a tone.
voice class dualtone	Creates a voice class for FXO tone detection parameters.

## cadence-max-off-time

To specify the maximum time that a tone can be off and still detected as part of a cadence, use the **cadence-max-off-time** command in voice-class configuration mode. To restore the default, use the **no** form of this command.

cadence-max-off-time time no cadence-max-off-time

## **Syntax Description**

time	The maximum off time of a tone that can be detected, in 10-millisecond increments. Range is from
	0 to 5000 (0 milliseconds to 50 seconds). The default is 0.

#### **Command Default**

0 (no off time)

#### **Command Modes**

Voice-class configuration (config-voice-class)

#### **Command History**

Release	Modification
12.1(3)T	This command was introduced on the Cisco 2600 series, Cisco 3600 series and the Cisco MC3810.

#### **Usage Guidelines**

Specify a time value greater than the off time of the tone to be detected, and use a time value greater than 0 to enable detection of a cadenced tone. With the default (0), the router detects only a continuous tone.

### **Examples**

The following example shows configuration of a maximum off duration of 20 seconds for voice class 100:

voice class dualtone 100
 cadence-max-off-time 2000

Command	Description
cadence-min-on-time	Specifies the minimum on duration for detection of a tone.
cadence-variation	Specifies the cadence variation time allowed for detection of a tone.
voice class dualtone	Creates a voice class for FXO tone detection parameters.

## cadence-min-on-time

To specify the minimum time that a tone can be on and still detected as part of a cadence, use the **cadence-min-on-time** command in voice-class configuration mode. To restore the default, use the **no** form of this command.

cadence-min-on-time time no cadence-min-on-time

## Syntax Description

time	The minimum <i>on</i> time of a tone that can be detected, in 10-millisecond increments. Range is from 0
	to 100 (0 milliseconds to 1 seconds). The default is 0.

#### **Command Default**

0 (no minimum on time)

#### **Command Modes**

Voice-class configuration (config-voice-class)

#### **Command History**

Release	Modification
12.1(3)T	This command was introduced on the Cisco 2600 series, Cisco 3600 series and the Cisco MC3810.

#### **Usage Guidelines**

Specify a time value shorter than the on time of the tone to be detected. With the default (0), a tone of any length is detected.

#### **Examples**

The following example shows configuration of a minimum on duration of 30 milliseconds (three 10-ms time intervals) for voice class 100:

voice class dualtone 100
 cadence-min-on-time 3

Command	Description
cadence-max-off-time	Specifies the maximum off duration for detection of a tone.
cadence-variation	Specifies the cadence variation time allowed for detection of a tone.
voice class dualtone	Creates a voice class for FXO tone detection parameters.

## cadence-variation

To specify the cadence variation time allowed for detection of a tone, use the **cadence-variation** command in voice-class configuration mode. To restore the default cadence variation time, use the no form of this command.

cadence-variation time no cadence-variation

#### **Syntax Description**

time	The maximum time by which the tone onset can vary from the specified onset time and still be
	detected, in 10-millisecond increments. Range is from 0 to 200 (0 milliseconds to 2 seconds). The
	default is 10.

#### **Command Default**

10 milliseconds

#### **Command Modes**

Voice-class configuration (config-voice-class)

#### **Command History**

Release	Modification
12.1(3)T	This command was introduced on the Cisco 2600 series, Cisco 3600 series, and the Cisco MC3810.
12.1(5)XM	This command was implemented on the Cisco 2600 series, Cisco 3600 series, and the Cisco MC3810.
12.2(2)T	This command was integrated into Cisco IOS Release 12.2(2)T and implemented on the Cisco 1750 router.

#### **Usage Guidelines**

Specify a time value greater than the cadence variation of the tone to be detected. With the default of 0, only those tones that match the configured cadence are detected.

This command creates a detection limit for one parameter within a voice class. You can apply the detection limit to any voice port.

#### **Examples**

The following example specifies a cadence variation time of 30 milliseconds for voice class 100:

voice class dualtone 100
 cadence-variation 3

The following example specifies 80 ms (eight 10-ms time intervals) as the maximum allowable cadence variation in voice class 70:

voice class dualtone-detect-params 70
cadence-variation 8

Command	Description
cadence-max-off-time	Specifies the maximum off duration for detection of a tone.

Command	Description
cadence-min-on-time	Specifies the minimum on duration for detection of a tone.
supervisory answer dualtone	Enables answer supervision on a voice port.
supervisory dualtone-detect-params	Assigns the boundary and detection tolerance parameters defined by the <b>voice class dual tone-detect-params</b> command to a voice port.

## call accounting-template

To select an accounting template at a specific location, use the **callaccounting-template**command in global configuration or application configuration mode. To deselect a specific accounting template, use the **no** form of this command.

**call accounting-template** acctTempName url **no call accounting-template** acctTempName url

#### **Syntax Description**

acctTempName	Template name.
url	Location of the template.

#### **Command Default**

No default behavior or values

#### **Command Modes**

Global configuration (config) Application configuration

#### **Command History**

Release	Modification
12.2(11)T	This command was introduced on the following platforms: Cisco 3660, Cisco AS5300, Cisco AS5350, Cisco AS5400, Cisco AS5800, and Cisco AS5850.
12.3(14)T	This command was added to the application configuration mode to replace the <b>callapplicationvoiceaccounting-template</b> command.

#### **Usage Guidelines**

For call detail records, the template name must have a .cdr extension. To select call records based on your accounting needs and to specify the location of an accounting template that defines the applicable vendor-specific attributes (VSAs) for generating those selected call records, use the **callaccounting-template**command in global configuration mode.

The acctTempName argument refers to a specific accounting template file that you want to send to the RADIUS server. This template file defines only specific VSAs selected by you to control your call records based on your accounting needs.

#### **Examples**

The example below shows the accounting template cdr1 selected from a specific TFTP address.

call accounting-template temp-ivr tftp://kyer/sample/cdr/cdr1.cdr

Command	Description
call application voice accounting-template	Configures T.37 fax accounting with VoIP AAA nonblocking API.
show call accounting-template voice	Selects an accounting template at a specific location.

## call accounting-template voice

To select an accounting template at a specific location, use the **callaccounting-templatevoice** command in global configuration mode. To remove a specific accounting template, use the **no** form of this command.

call accounting-template voice acctTempName url no call accounting-template voice acctTempName url

#### **Syntax Description**

acctTempName	Template name.
url	Location of the template.

#### **Command Default**

No default behavior or values

#### **Command Modes**

Global configuration (config)

#### **Command History**

Releas	Modification
12.2(1	This command was introduced on the following platforms: Cisco 3660, Cisco AS5300, Cisco AS5350, Cisco AS5400, Cisco AS5800, and Cisco AS5850.
12.3(14	The <b>callaccounting-templatevoice</b> command is replaced by the <b>callaccounting-template</b> command in application configuration mode. See the <b>callaccounting-template</b> command for more information.

#### **Usage Guidelines**

The template name must have a .cdr extension.

To select call records based on your accounting needs and to specify the location of an accounting template that defines the applicable vendor-specific attributes (VSAs) for generating those selected call records, use the **callaccounting-templatevoice** command in global configuration mode.

The acctTempName argument refers to a specific accounting template file that you want to send to the RADIUS server. This template file defines only specific VSAs selected by you to control your call records based on your accounting needs.

#### **Examples**

The example below shows the accounting template cdr1 selected from a specific TFTP address.

call accounting-template voice temp-ivr tftp://kyer/sample/cdr/cdrl.cdr

Command	Description
call accounting-template voice reload	Reloads the accounting template.
show call accounting-template voice	Selects an accounting template at a specific location.

# call accounting-template voice reload

To reload the accounting template, use the **callaccounting-templatevoicereload** command in privileged EXEC mode.

call accounting-template voice reload acctTempName

### **Syntax Description**

	Reloads the accounting template from the address (for example, a tftp address) where the template is stored.	
acctTempName	Name of the accounting template.	

#### **Command Modes**

Privileged EXEC (#)

#### **Command History**

Release	Modification
` /	This command was introduced on the following platforms: Cisco 3660, Cisco AS5300, Cisco AS5350, Cisco AS5400, Cisco AS5800, and Cisco AS5850.

#### **Usage Guidelines**

Use the **callaccounting-templatevoicereload** command to reload the template from the URL defined in the **callaccounting-templatevoice** command. After bootup, if the template file fails to load from the TFTP server, the system tries to automatically reload the file at 5-minute intervals.

#### **Examples**

The example below shows how to reload accounting template cdr2:

call accounting-template voice reload cdr2

Command	Description
call accounting-template voice	Selects an accounting template at a specific location
gw-accounting aaa	Defines and loads the template file at the location defined by the URL.
show call accounting-template voice	Displays the VSAs that are contained in the accounting template.

## call-agent

To define the call agent for a Media Gateway Control Protocol (MGCP) profile, use the **call-agent** command in MGCP profile configuration mode. To return to the default values, use the **no** form of this command.

**call-agent** {dns-nameip-address} [port] [**service-type** type] [**version** protocol-version] **no call-agent** 

### **Syntax Description**

dns-name	Fully qualified domain name (including host portion) for the call agent. For example, "ca123.example.net".	
ip-address	IP address of the call agent.	
port	(Optional) User Datagram Protocol (UDP) port number over which the gateway sends messages to the call agent. Range is from 1025 to 65535.	
	• The default call-agent UDP port is 2727 for MGCP 1.0, Network-based Call Signaling (NCS) 1.0, and Trunking Gateway Control Protocol (TGCP) 1.0.	
	• The default call-agent UDP port is 2427 for MGCP 0.1 and Simple Gateway Control Protocol (SGCP).	
service-type type	(Optional) Protocol service type valid values for the <i>type</i> argument are <b>mgcp</b> , <b>ncs</b> , <b>sgcp</b> , and <b>tgcp</b> . The default service type is <b>mgcp</b> .	
version	(Optional) Version number of the protocol. Valid values follow:	
protocol-version	• Service-type MGCP0.1, 1.0	
	• Service-type NCS1.0	
	• Service-type SGCP1.1, 1.5	
	• Service-type TGCP1.0	
	The default service type and version are <b>mgcp</b> and <b>0.1</b> .	

#### **Command Default**

The default call-agent UDP port is 2727 for MGCP 1.0, Network-based Call Signaling (NCS) 1.0, and Trunking Gateway Control Protocol (TGCP) 1.0. The default call-agent UDP port is 2427 for MGCP 0.1 and Simple Gateway Control Protocol (SGCP). The default service type and version are MGCP 0.1.

#### **Command Modes**

MGCP profile configuration (config-mgcp-profile)

#### **Command History**

Release	Modification
12.2(2)XA	This command was introduced.
12.2(4)T	This command was integrated into Cisco IOS Release 12.2(4)T.
12.2(11)T	This command was implemented on the Cisco AS5300 and Cisco AS5850.

#### **Usage Guidelines**

This command is used when values for a MGCP profile are configured.

Call-agent configuration for an MGCP profile (with this command) and global call-agent configuration (with the **mgcpcall-agent** command) are mutually exclusive; the first to be configured on an endpoint blocks configuration of the other on the same endpoint.

Identifying call agents by Domain Name System (DNS) name rather than by IP address in the **call-agent** command provides call-agent redundancy, because a DNS name can have more than one IP address associated with it. If a call agent is identified by a DNS name and a message from the gateway fails to reach the call agent, the **max1lookup** and **max2lookup** commands enable a search from the DNS lookup table for a backup call agent at a different IP address.

The *port* argument configures the call agent port number (the UDP port over which the gateway sends messages to the call agent). The reverse, or the gateway port number (the UDP port over which the gateway receives messages from the call agent), is configured by specifying a port number in the **mgcp** command.

The service type **mgcp** supports the Restart In Progress (RSIP) error messages sent by the gateway if the **mgcpsgcprestartnotify** command is enabled. The service type **sgcp** ignores the RSIP messages.

### **Examples**

The following example defines a call agent for the MGCP profile named "tgcp\_trunk":

```
Router(config)# mgcp profile tgcp_trunk
Router(config-mgcp-profile)# call-agent 10.13.93.3 2500 service-type tgcp version 1.0
```

Command	Description
max1 lookup	Enables DNS lookup of the MGCP call agent address when the suspicion threshold value is reached.
max2 lookup	Enables DNS lookup of the MGCP call agent address when the disconnect threshold value is reached.
mgcp	Starts and allocates resources for the MGCP daemon.
mgcp call-agent	Configures the address of the call agent (media gateway controller).
mgcp profile	Initiates MGCP profile mode to create and configure a named MGCP profile associated with one or more endpoints or to configure the default profile.

## call application alternate



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationalternate**command is replaced by the **service**command in global application configuration mode. See the **service**command for more information.

To specify an alternate application to use if the application that is configured in the dial peer fails, use the **callapplicationalternate** command in global configuration mode. To return to the default behavior, use the **no** form of this command.

**call application alternate** [application-name] **no call application alternate** 

#### **Syntax Description**

application-name	(Optional) Name of the specific voice application to use if the application in the dia	
	peer fails. If a specific application name is not entered, the gateway uses the DEFAULT	
	application.	

#### **Command Default**

The call is rejected if the application in the dial peer fails.

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.2(11)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>service</b> command in global application configuration mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

If this command is not configured, calls are rejected when the dial peer that matches the call does not specify a valid voice application.

In releases before Cisco IOS Release 12.2(11)T, the default application (DEFAULT) was automatically triggered if no application was configured in the dial peer or if the configured application failed. The default application is no longer automatically executed unless the **callapplicationalternate** command is configured.

The application named DEFAULT is a simple application that outputs dial tone, collects digits, and places a call to the dialed number. This application is included in Cisco IOS software; you do not have to download it or configure it by using the **callapplicationvoice** command.

The **callapplicationalternate** command specifies that if the application that is configured in the dial peer fails, the default voice application is executed. If the name of a specific application is entered, that application is triggered if the application configured in the dial peer fails. If the alternate application also fails, the call is rejected.

If an application name is entered, that application must first be configured on the gateway by using the **callapplicationvoice** command.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config) # call application alternate
Warning: This command has been deprecated. Please use the following:
    service
```

The following example configures the DEFAULT application as the alternate:

call application alternate

The following example configures the application session as the alternate:

call application alternate session

Command	Description
application	Enables a voice application on a dial peer.
call application voice	Defines the name of a voice application and specifies the location of the Tcl or VoiceXML document to load for this application.
service	Loads and configures a specific, standalone application on a dial peer.
show call application voice	Displays information about voice applications.

## call application cache reload time



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationcachereloadtime** command is replaced by the **cachereloadtime** command in application configuration global mode. See the **cachereloadtime** command for more information.

To configure the router to reload the Media Gateway Control Protocol (MGCP) scripts from cache on a regular interval, use the **callapplicationcachereloadtime** command in global configuration mode. To set the value to the default, use the **no** form of this command.

call application cache reload time bg-minutes no call application cache reload time

#### **Syntax Description**

bg-minutes		Specifies the number of minutes after which the background process is awakened. This background process checks the time elapsed since the script was last used and whether the script is current:
		• If the script has not been used in the last "unload time," it unloads the script and quits. The unload time is not configurable.

• If the script has been used, the background process loads the script from the URL. It compares the scripts, and if they do not match, it begins using the new script for new calls.

#### **Command Default**

30 minutes

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.1(3)T	This command was introduced on the Cisco AS5300.
12.3(14)T	This command was replaced by the <b>cachereloadtime</b> command in application configuration global mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config)# call application cache reload 20
Warning: This command has been deprecated. Please use the following:
cache reload time

The following example displays the **callapplicationcachereloadtime** command configured to specify 30 minutes before a background process is awakened:

call application cache reload time 30

Command	Description
cache reload time	Configures the router to reload scripts from cache on a regular interval.
call application voice load	Allows reload of an application that was loaded via the MGCP scripting package.
show call application voice	Displays all Tcl or MGCP scripts that are loaded.

# call application dump event-log

To flush the event log buffer for application instances to an external file, use the **callapplicationdumpevent-log**command in privileged EXEC mode.

call application dump event-log

### **Syntax Description**

This command has no arguments or keywords.

#### **Command Modes**

Privileged EXEC (#)

### **Command History**

Release	Modification
12.3(8)T	This command was introduced.

#### **Usage Guidelines**

This command immediately writes the event log buffer to the external file whose location is defined with the **callapplicationevent-logdumpftp** command in global configuration mode.



Note

The call application dump event-log command and the call application event-log dump ftp command are two different commands.

#### **Examples**

The following example flushes the application event log buffer:

Router# call application dump event-log

Command	Description
call application event-log	Enables event logging for voice application instances.
call application event-log dump ftp	Enables the gateway to write the contents of the application event log buffer to an external file.
call application event-log max-buffer-size	Sets the maximum size of the event log buffer for each application instance.
show call application session-level	Displays event logs and statistics for voice application instances.

## call application event-log



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationevent-log** command is replaced by the **event-log** command in application configuration monitor mode. See the **event-log** command for more information.

To enable event logging for all voice application instances, use the **callapplicationevent-log**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application event-log no call application event-log

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

Event logging for voice applications is disabled.

#### **Command Modes**

Global configuration (config)

### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>event-log</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command enables event logging globally for all voice application instances. To enable or disable event logging for a specific application, use the **callapplicationvoiceevent-log** command.



Note

To prevent event logging from adversely impacting system resources for production traffic, the gateway uses a throttling mechanism. When free processor memory drops below 20%, the gateway automatically disables all event logging. It resumes event logging when free memory rises above 30%. While throttling is occurring, the gateway does not capture any new event logs even if event logging is enabled. You should monitor free memory and enable event logging only when necessary for isolating faults.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application event-log

Warning: This command has been deprecated. Please use the following:

event-log
```

The following example enables event logging for all application instances:

call application event-log

Command	Description
call application event-log error-only	Restricts event logging to error events only for application instances.
call application event-log max-buffer-size	Sets the maximum size of the event log buffer for each application instance.
call application interface event-log	Enables event logging for external interfaces used by voice applications.
call application stats	Enables statistics collection for voice applications.
call application voice event-log	Enables event logging for a specific voice application.
call leg event-log	Enables event logging for voice, fax, and modem call legs.
event-log	Enables event logging for applications.
monitor call application event-log	Displays the event log for an active application instance in real-time.
show call application session-level	Displays event logs and statistics for voice application instances.

## call application event-log dump ftp



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationevent-logdumpftp**command is replaced by the **event-logdumpftp**command in application configuration monitor mode. See the **event-logdumpftp**command for more information.

To enable the gateway to write the contents of the application event log buffer to an external file, use the **callapplicationevent-logdumpftp**command in global configuration mode. To reset to the default, use the **no** form of this command.

 $\begin{tabular}{ll} \textbf{call application event-log dump ftp} & server[\{:port\}] \textit{file username username password} \\ [\{[encryption-type]\}] & password \\ \hline \end{tabular}$ 

## no call application event-log dump ftp

#### **Syntax Description**

server	Name or IP address of FTP server where file is located.
: port	(Optional) Specific port number on server.
/ file	Name and path of file.
username	Username required to access file.
encryption-type	(Optional) The Cisco proprietary algorithm used to encrypt the password. Values are 0 or 7. To disable encryption enter 0; to enable encryption enter 7. If you specify 7, you must enter an encrypted password (a password already encrypted by a Cisco router).
password	Password required to access file.

#### **Command Default**

No default behavior or values

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>event-logdumpftp</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command enables the gateway to automatically write the event log buffer to the named file either after an active application instance terminates or when the event log buffer becomes full. The default buffer size is 4 KB. To modify the size of the buffer, use the **callapplicationevent-logmax-buffer-size** command. To

manually flush the event log buffer, use the **callapplicationdumpevent-log** command in privileged EXEC mode.



Note

The call application dump event-log command and the call application event-log dump ftp command are two different commands.

Enabling the gateway to write event logs to FTP could adversely impact gateway memory resources in some scenarios, for example, when:

- The gateway is consuming high processor resources and FTP does not have enough processor resources to flush the logged buffers to the FTP server.
- The designated FTP server is not powerful enough to perform FTP transfers quickly
- Bandwidth on the link between the gateway and the FTP server is not large enough
- The gateway is receiving a high volume of short-duration calls or calls that are failing

You should enable FTP dumping only when necessary and not enable it in situations where it might adversely impact system performance.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application event-log dump ftp
Warning: This command has been deprecated. Please use the following:
event-log dump ftp
```

The following example enables the gateway to write application event logs to an external file named app\_elogs.log on a server named ftp-server:

call application event-log dump ftp ftp-server/:elogs/app-elogs.log username myname password 0 mypass

The following example specifies that application event logs are written to an external file named app\_elogs.log on a server with the IP address of 10.10.10.101:

call application event-log dump ftp 10.10.10.101/:elogs/app-elogs.log username myname password 0 mypass

Command	Description
call application dump event-log	Flushes the event log buffer for application instances to an external file.
call application event-log	Enables event logging for voice application instances.
call application event-log max-buffer-size	Sets the maximum size of the event log buffer for each application instance.
event-log dump ftp	Enables the gateway to write the contents of the application event log buffer to an external file.

Command	Description
show call application session-level	Displays event logs and statistics for voice application instances.

## call application event-log error-only



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationevent-logerror-only**command is replaced by the **event-logerror-only**command in application configuration monitor mode. See the **event-logerror-only**command for more information.

To restrict event logging to error events only for application instances, use the **callapplicationevent-logerror-only** command in global configuration mode. To reset to the default, use the **no** form of this command.

call application event-log error-only no call application event-log error-only

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

All application events are logged.

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>event-logerror-only</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command limits new event logging to error events only; it does not enable logging. You must use this command with either the **callapplicationevent-log** command, which enables event logging for all voice applications, or with the **callapplicationvoiceevent-log** command, which enables event logging for a specific application. Any events logged before this command is issued are not affected.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application event-log error-only
Warning: This command has been deprecated. Please use the following:
event-log error-only
```

The following example enables event logging for error events only:

```
call application event-log
call application event-log error-only
```

Command	Description
call application event-log	Enables event logging for voice application instances.
call application history session event-log save-exception-only	Saves in history only the event logs for application instances that have at least one error.
call application voice event-log	Enables event logging for a specific voice application.
event-log error-only	Restricts event logging to error events only for application instances.
show call application app-level	Displays application-level statistics for voice applications.
show call application session-level	Displays event logs and statistics for voice application instances.

## call application event-log max-buffer-size



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationevent-logmax-buffer-size**command is replaced by the **event-logmax-buffer-size**command in application configuration monitor mode. See the **event-logmax-buffer-size**command for more information.

To set the maximum size of the event log buffer for each application instance, use the **callapplicationevent-logmax-buffer-size**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application event-log max-buffer-size kilobytes no call application event-log max-buffer-size

#### **Syntax Description**

kilobytes   Maximum buffer size, in kilobytes. Range is 1 to 50.	. Default is 4.
--	-----------------

#### **Command Default**

4 kilobytes

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>event-logmax-buffer-size</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

If the event log buffer reaches the limit set by this command, the gateway allocates a second buffer of equal size. The contents of both buffers is displayed when you use the **showcallapplicationsession-level** command. When the first event log buffer becomes full, the gateway automatically appends its contents to an external FTP location if the **callapplicationevent-logdumpftp** command is used.

A maximum of two buffers are allocated for an event log. If both buffers are filled, the first buffer is deleted and another buffer is allocated for new events (buffer wraps around). If the **callapplicationevent-logdumpftp** command is configured and the second buffer becomes full before the first buffer is dumped, event messages are dropped and are not recorded in the buffer.

Do not set the maximum buffer size to more than you need for a typical application session. After an active session terminates, the amount of memory used by the buffer is allocated to the history table and is maintained for the length of time set by the **callapplicationhistorysessionretain-timer** command. Also consider that most fatal errors are captured at the end of an event log.

To conserve memory resources, write the event log buffer to FTP by using the **callapplicationevent-logdumpftp** command.

### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application event-log max-buffer-size
Warning: This command has been deprecated. Please use the following:
event-log max-buffer-size
```

The following example sets the application event log buffer to 8 kilobytes:

```
call application event-log
call application event-log max-buffer-size 8
```

Command	Description
call application dump event-log	Flushes the event log buffer for application instances to an external file.
call application event-log	Enables event logging for voice application instances.
call application event-log dump ftp	Enables the gateway to write the contents of the application event log buffer to an external file.
event-log max-buffer-size	Sets the maximum size of the event log buffer for each application instance.
show call application session-level	Displays event logs and statistics for voice application instances.

## call application global



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationglobal**command is replaced by the **global**command in application configuration mode. See the **global**command for more information.

To configure an application to use for incoming calls whose incoming dial peer does not have an explicit application configured, use the **callapplicationglobal** command in global configuration mode. To remove the application, use the**no** form of this command.

call application global application-name no call application global application-name

#### **Syntax Description**

Character string that defines the name of the application.

#### **Command Default**

The default application is **default** for all dial peers.

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.2(15)ZJ	This command was introduced.
12.3(4)T	This command was integrated into Cisco IOS Release 12.3(4)T.
12.3(14)T	This command was replaced by the <b>global</b> command in application configuration mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

The application defined in the dial peer always takes precedence over the global application configured with the **callapplicationglobal** command. The application configured with this command executes only when a dial peer has no application configured.

The application you configure with this command can be an application other than the default session application, but it must be included with the Cisco IOS software or be loaded onto the gateway with the **callapplicationvoice** command before using this command. If the application does not exist in Cisco IOS software or has not been loaded onto the gateway, this command will have no effect.



Note

In Cisco IOS Release 12.3(4)T and later releases, the application-name default refers to the application that supports Open Settlement Protocol (OSP), call transfer, and call forwarding. The default session application in Cisco IOS Release 12.2(13)T and earlier releases has been renamed default.old.c and can still be configured for specific dial peers through the **application** command or globally configured for all inbound dial peers through the **callapplicationglobal** command.

# **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application global
Warning: This command has been deprecated. Please use the following:
global
```

In the following example, the clid\_authen\_collect application is configured as the global application for all inbound dial peers that do not have a specific application configured:

call application global clid\_authen\_collect

Command	Description
application	Enables a specific IVR application on a dial peer.
call application voice	Defines the name to be used for an application and indicates the location of the appropriate IVR script to be used with this application.
global	Enters application configuration mode.

# call application history session event-log save-exception-only



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplication historysession event-logsave-exception-only** command is replaced by the **historysession event-logsave-exception-only** command in application configuration monitor mode. See the **historysession event-logsave-exception-only** command for more information.

To save in history only the event logs for application sessions that have at least one error, use the **callapplicationhistorysessionevent-logsave-exception-only** command in global configuration mode. To reset to the default, use the **no** form of this command.

call application history session event-log save-exception-only no call application history session event-log save-exception-only

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

All event logs for sessions are saved to history.

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>historysessionevent-logsave-exception-only</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

Application event logs move from active to history after an instance terminates. If you use this command, the voice gateway saves event logs only for instances that had one or more errors. Event logs for normal instances that do not contain any errors are not saved to history.



Note

This command does not affect records saved to an FTP server by using the **callapplicationdumpevent-log** command.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config) # call application history session event-log save-exception-only Warning: This command has been deprecated. Please use the following: history session event-log save-exception-only

The following example saves an event log in history only if the instance had an error:

call application history session event-log save-exception-only

Command	Description
call application event-log	Enables event logging for voice application instances.
call application event-log error-only	Restricts event logging to error events only for application instances.
call application event-log max-buffer-size	Sets the maximum size of the event log buffer for each application instance.
call application history session max-records	Sets the maximum number of application instance records saved in history.
call application history session retain-timer	Sets the maximum number of minutes for which application instance records are saved in history.
history session event-log save-exception-only	Saves in history only the event logs for application sessions that have at least one error.

# call application history session max-records



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationhistorysessionmax-records**command is replaced by the **historysessionmax-records**command in application configuration monitor mode. See the **historysessionmax-records** command for more information.

To set the maximum number of application instance records saved in history, use the **callapplicationhistorysessionmax-records**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application history session max-records *number* no call application history session max-records

#### **Syntax Description**

number N	Maximum number of records to save in history. Range is 0 to 2000. Default is 360.
----------	---

#### **Command Default**

360

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>historysessionmax-records</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command affects the number of records that display when you use the **showcallapplicationhistorysession-level** command.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config)# call application history session max-records
Warning: This command has been deprecated. Please use the following:
history session max-records

The following example sets the maximum record limit to 500:

call application history session max-records 500

Command	Description
call application event-log	Enables event logging for voice application instances.
call application history session event-log save-exception-only	Saves in history only the event logs for application instances that have at least one error.
call application history session retain-timer	Sets the maximum number of minutes that application instance records are saved in history.
history session max-records	Sets the maximum number of application instance records saved in history.
show call application session-level	Displays event logs and statistics for voice application instances.

# call application history session retain-timer



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationhistorysessionretain-timer** command is replaced by the **historysessionretain-timer** command in application configuration monitor mode. See the **historysessionretain-timer** command for more information.

To set the maximum number of minutes for which application instance records are saved in history, use the **callapplicationhistorysessionretain-timer**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application history session retain-timer minutes no call application history session retain-timer

### **Syntax Description**

minutes	Maximum time, in minutes, for which history records are saved. Range is 0 to 4294,967,295.
	Default is 15.

## Command Default

15

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>historysessionretain-timer</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command affects the number of records that display when you use the **showcallapplicationhistorysession-level** command.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config)# call application history session retain-timer
Warning: This command has been deprecated. Please use the following:
history session retain-timer

The following example sets the maximum time to save history records to 1 hour:

call application history session retain-timer 60

Command	Description
call application event-log	Enables event logging for voice application instances.
call application history session event-log save-exception-only	Saves in history only the event logs for application instances that have at least one error.
call application history session max-records	Sets the maximum number of application instance records saved in history.
history session retain-timer	Sets the maximum number of minutes for which application instance records are saved in history.
show call application session-level	Displays event logs and statistics for voice application instances.

# call application interface dump event-log

To flush the event log buffer for application interfaces to an external file, use the **callapplicationinterfacedumpevent-log**command in privileged EXEC mode.

call application interface dump event-log

# **Syntax Description**

This command has no arguments or keywords.

#### **Command Modes**

Privileged EXEC (#)

# **Command History**

Release	Modification	
12.3(8)T	This command was introduced.	

### **Usage Guidelines**

This command immediately writes the event log buffer to the external file whose location is defined with the **callapplicationinterfaceevent-logdumpftp** command in global configuration mode.



Note

The **callapplicationinterfacedumpevent-log** command and the **callapplicationinterfaceevent-logdumpftp** command are two different commands.

# **Examples**

The following example writes the event log buffer to the external file named int\_elogs:

Router(config)# call application interface event-log dump ftp ftp-server/int\_elogs.log
username myname password 0 mypass
Router(config)# exit
Router# call application interface dump event-log

Command	Description
call application interface event-log	Enables event logging for external interfaces used by voice applications.
call application interface event-log dump ftp	Enables the voice gateway to write the contents of the interface event log buffer to an external file.
call application interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface event-log



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationinterfaceevent-log** command is replaced by the **interfaceevent-log** command in application configuration monitor mode. See the **interfaceevent-log** command for more information.

To enable event logging for interfaces that provide services to voice applications, use the **callapplicationinterfaceevent-log**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface event-log [{aaa | asr | flash | http | ram | rtsp | smtp | tftp | tts} [server | server] [disable]]

no call application interface event-log  $[\{aaa \mid asr \mid flash \mid http \mid ram \mid rtsp \mid smtp \mid tftp \mid tts\}$  [server server] [disable]]

### **Syntax Description**

aaa	Authentication, authorization, and accounting (AAA) interface type.	
asr	Automatic speech recognition (ASR) interface type.	
flash	Flash memory of the Cisco gateway.	
http	Hypertext Transfer Protocol (HTTP) interface type.	
ram	Memory of the Cisco gateway.	
rtsp	Real Time Streaming Protocol (RTSP) interface type.	
smtp	Simple Mail Transfer Protocol (SMTP) interface type.	
tftp	Trivial File Transfer Protocol (TFTP) interface type.	
tts	Text-to-speech (TTS) interface type.	
server server	(Optional) Server name or IP address.	
disable	(Optional) Disables event logging for the specified interface type or server.	

### **Command Default**

Event logging for application interfaces is disabled.

# **Command Modes**

Global configuration (config)

## **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>interfaceevent-log</b> command in application configuration monitor mode.

Release	Modification
\ /	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

## **Usage Guidelines**

This command enables event logging globally for all interface types and servers unless you select a specific interface type or server. Specifying an interface type takes precedence over the global command for a specific interface type. Specifying an individual server takes precedence over the interface type.



Note

To prevent event logging from adversely impacting system resources for production traffic, the gateway uses a throttling mechanism. When free processor memory drops below 20%, the gateway automatically disables all event logging. It resumes event logging when free memory rises above 30%. While throttling is occurring, the gateway does not capture any new event logs even if event logging is enabled. You should monitor free memory and enable event logging only when necessary for isolating faults.

### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application interface event-log
Warning: This command has been deprecated. Please use the following:
interface event-log
```

The following example enables event logging for all interfaces:

```
call application interface event-log
```

The following example enables event logging for HTTP interfaces only:

```
call application interface event-log http
```

The following example enables event logging for all interfaces except HTTP:

```
call application interface event-log
call application interface event-log http disable
```

The following example enables event logging for all HTTP servers except the server with the IP address of 10.10.1.1:

```
call application interface event-log http call application interface event-log http server http://10.10.1.1 disable
```

Command	Description
call application interface event-log dump ftp	Enables the gateway to write the contents of the interface event log buffer to an external file.
call application interface event-log error-only	Restricts event logging to error events only for application interfaces.

Command	Description
call application interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
call application interface max-server-records	Sets the maximum number of application interface records that are saved.
call application interface stats	Enables statistics collection for application interfaces.
interface event-log	Enables event logging for interfaces providing services to voice applications.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface event-log dump ftp



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationinterfaceevent-logdumpftp** command is replaced by the **interfaceevent-logdumpftp** command in application configuration monitor mode. See the **interfaceevent-logdumpftp** command for more information.

To enable the gateway to write the contents of the interface event log buffer to an external file, use the **callapplicationinterfaceevent-logdumpftp**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface event-log dump ftp  $server[\{:port\}]/file$  username username password  $[\{[encryption-type]\}]password$ 

no call application interface event-log dump ftp

# **Syntax Description**

server	Name or IP address of FTP server where the file is located.
: port	(Optional) Specific port number on server.
/ file	Name and path of file.
username username	Username required to access file.
encryption-type	(Optional) Cisco proprietary algorithm used to encrypt the password. Values are 0 or 7. To disable encryption enter 0; to enable encryption enter 7. If you specify 7, you must enter an encrypted password (a password already encrypted by a Cisco router).
password password	Password required to access file.

#### **Command Default**

Interface event log buffer is not written to an external file.

## **Command Modes**

Global configuration (config)

# **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>interfaceevent-logdumpftp</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

## **Usage Guidelines**

This command enables the gateway to automatically write the interface event log buffer to the named file when the buffer becomes full. The default buffer size is 4 KB. To modify the size of the buffer, use the

**callapplicationinterfaceevent-logmax-buffer-size** command. To manually flush the event log buffer, use the **callapplicationinterfacedumpevent-log** command in privileged EXEC mode.



#### Note

The callapplicationinterfacedumpevent-log command and the callapplicationinterfaceevent-logdumpftp command are two different commands.

- Enabling the gateway to write event logs to FTP can adversely impact gateway-memory resources in scenarios such as the following:
  - The gateway is consuming high processor resources and FTP does not have enough processor resources to flush the logged buffers to the FTP server.
  - The designated FTP server is not powerful enough to perform FTP transfers quickly
  - Bandwidth on the link between the gateway and the FTP server is not large enough
  - The gateway is receiving a high volume of short-duration calls or calls that are failing

You should enable FTP dumping only when necessary and not enable it in situations where it might adversely impact system performance.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application interface event-log dump ftp
Warning: This command has been deprecated. Please use the following:
interface event-log dump ftp
```

The following example specifies that interface event log are written to an external file named int\_elogs.log on a server named ftp-server:

call application interface event-log dump ftp ftp-server/elogs/int\_elogs.log username myname password 0 mypass

The following example specifies that application event logs are written to an external file named int elogs.log on a server with the IP address of 10.10.10.101:

call application interface event-log dump ftp 10.10.10.101/elogs/int\_elogs.log username myname password 0 mypass

Command	Description
call application interface dump event-log	Flushes the event log buffer for application interfaces to an external file.
call application interface event-log	Enables event logging for external interfaces used by voice applications.
call application interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
call application interface max-server-records	Sets the maximum number of application interface records that are saved.

Command	Description
interface event-log dump ftp	Enables the gateway to write the contents of the interface event log buffer to an external file.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface event-log error-only



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationinterfaceevent-logerror-only** command is replaced by the**interfaceevent-logerroronlycommandin**application configuration monitor mode. See the **interfaceevent-logerroronly** command for more information.

To restrict event logging to error events only for application interfaces, use the **callapplicationinterfaceevent-logerror-only** command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface event-log error-only no call application interface event-log error-only

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

All events are logged.

#### **Command Modes**

Global configuration (config)

### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the interface event-logerroronly command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

This command limits the severity level of the events that are logged; it does not enable logging. You must use this command with the **callapplicationinterfaceevent-log** command, which enables event logging for all application interfaces.

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config)# call application interface event-log error-only

Warning: This command has been deprecated. Please use the following:

interface event-log error only

The following example enables event logging for error events only:

call application interface event-log error-only

Command	Description
call application interface event-log	Enables event logging for external interfaces used by voice applications.
call application interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
call application interface max-server-records	Sets the maximum number of application interface records that are saved.
interface event-log error-only	Restricts event logging to error events only for application interfaces.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface event-log max-buffer-size



Note

Effective with Cisco IOS Release 12.3(14)T, the call application interface event-log max-buffer-size command is replaced by the interface event-log max-buffer-size command in application configuration monitor mode. See the interface event-log max-buffer-size command for more information.

To set the maximum size of the event log buffer for each application interface, use the **callapplicationinterfaceevent-logmax-buffer-size**command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface event-log max-buffer-size kilobytes no call application interface event-log max-buffer-size

#### **Syntax Description**

ilobytes	kilobytes Maximum buffer size, in kilob	bytes. Range is 1 to 10. Default is 4
ilobytes 1	ilobytes   Maximum buffer size, in kilob	bytes. Range is 1 to 10. Default is

#### **Command Default**

4 kilobytes

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>interfaceevent-logmax-buffer-size</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

If the event log buffer reaches the limit set by this command, the gateway allocates a second buffer of equal size. The contents of both buffers is displayed when you use the **showcallapplicationinterface** command. When the first event log buffer becomes full, the gateway automatically appends its contents to an external FTP location if the **callapplicationinterfaceevent-logdumpftp** command is used.

A maximum of two buffers are allocated for an event log. If both buffers are filled, the first buffer is deleted and another buffer is allocated for new events (buffer wraps around). If the **callapplicationinterfaceevent-logdumpftp** command is configured and the second buffer becomes full before

#### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

the first buffer is dumped, event messages are dropped and are not recorded in the buffer.

Router(config)# call application interface event-log max-buffer-size Warning: This command has been deprecated. Please use the following: interface event-log max-buffer-size

The following example sets the maximum buffer size to 8 kilobytes:

call application interface event-log max-buffer-size 8

Command	Description
call application interface dump event-log	Flushes the event log buffer for application interfaces to an external file.
call application interface event-log dump ftp	Enables the gateway to write the contents of the interface event log buffer to an external file.
call application interface max-server-records	Sets the maximum number of application interface records that are saved.
interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface max-server-records



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationinterfacemax-server-records** command is replaced by the**interfacemax-server-records** command in application configuration monitor mode. See the **interfacemax-server-records** command for more information.

To set the maximum number of application interface records that are saved, use the **callapplicationinterfacemax-server-records** command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface max-server-records *number* no call application interface max-server-records

#### **Syntax Description**

number	Maximum number of records to save. Range is 1 to 100. Default is 10.
--------	--

#### **Command Default**

10

#### **Command Modes**

Global configuration (config)

# **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the interface max-server-records command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

## **Usage Guidelines**

Only the specified number of records from the most recently accessed servers are kept.

# **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config)# call application interface max-server-records

Warning: This command has been deprecated. Please use the following:

interface max-server-records

The following example sets the maximum saved records to 50:

call application interface max-server-records 50

Command	Description
call application interface event-log	Enables event logging for external interfaces used by voice applications.
call application interface event-log max-buffer-size	Sets the maximum size of the event log buffer for each application interface.
interface max-server-records	Sets the maximum number of application interface records that are saved.
show call application interface	Displays event logs and statistics for application interfaces.

# call application interface stats



#### Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationinterfacestats** command is replaced by the **interfacestats** command in application configuration monitor mode. See the **interfacestats** command for more information.

To enable statistics collection for application interfaces, use the **callapplicationinterfacestats** command in global configuration mode. To reset to the default, use the **no** form of this command.

call application interface stats no call application interface stats

#### **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

Statistics collection is disabled.

#### **Command Modes**

Global configuration (config)

### **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>interfacestats</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

#### **Usage Guidelines**

To display the interface statistics enabled by this command, use the **showcallapplicationinterface** command. To reset the interface counters to zero, use the **clearcallapplicationinterface** command.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

Router(config) # call application interface stats

Warning: This command has been deprecated. Please use the following: interface stats

The following example enables statistics collection for application interfaces:

call application interface stats

Command	Description
call application interface event-log	Enables event logging for external interfaces used by voice applications.
clear call application interface	Clears application interface statistics or event logs.
interface stats	Enables statistics collection for application interfaces.
show call application interface	Displays event logs and statistics for application interfaces.
stats	Enables statistics collection for voice applications.

# call application session start (global)



#### Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationsessionstart**(global) command is replaced by the the **sessionstart**command in application configuration mode. See the **sessionstart**command for more information.

To start a new instance (session) of a Tcl IVR 2.0 application, use the **callapplicationsessionstart**command in global configuration mode. To stop the session and remove the configuration, use the **no** form of this command.

call application session start instance-name application-name no call application session start instance-name

# **Syntax Description**

instance-name	Alphanumeric label that uniquely identifies this application instance.
application-name	Name of the Tcl application. This is the name of the application that was assigned with the <b>callapplicationvoice</b> command.

### **Command Default**

This command has no default behavior or values.

#### **Command Modes**

Global configuration (config)

#### **Command History**

Release	Modification	
12.3(4)T	This command was introduced.	
12.3(14)T	The <b>callapplicationsessionstart</b> (global configuration) command was replaced by the <b>sessionstart</b> command in application configuration mode.	
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.	

# **Usage Guidelines**

This command starts a new session, or instance, of a Tcl IVR 2.0 application. It cannot start a session for a VoiceXML application because Cisco IOS software cannot start a VoiceXML application without an active call leg.

You can start an application instance only after the Tcl application is loaded onto the gateway with the **callapplicationvoice** command.

If this command is used, the session restarts if the gateway reboots.

The **nocallapplicationsessionstart** command stops the Tcl session and removes the configuration from the gateway. You can stop an application session without removing the configuration by using the **callapplicationsessionstop** command.

VoiceXML sessions cannot be stopped with the **nocallapplicationsessionstart** command because VoiceXML sessions cannot be started with Cisco IOS commands.

If the application session stops running, it does not restart unless the gateway reboots. A Tcl script might intentionally stop running by executing a "call close" command for example, or it might fail because of a script error.

You can start multiple instances of the same application by using different instance names.

## **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application session start
Warning: This command has been deprecated. Please use the following:
    session start
```

The following example starts a session named my\_instance for the application named demo:

```
call application session start my_instance demo
```

The following example starts another session for the application named demo:

call application session start my\_instance2 demo

Command	Description
call application session start (privileged EXEC)	Starts a new instance (session) of a Tcl application from privileged EXEC mode.
call application session stop	Stops a voice application session that is running.
debug voip ivr	Displays debug messages for VoIP IVR interactions.
session start	Starts a new instance (session) of a Tcl IVR 2.0 application.
show call application services registry	Displays a one-line summary of all registered services.
show call application sessions	Displays summary or detailed information about voice application sessions.

# call application session start (privileged EXEC)

To start a new instance (session) of a Tcl IVR 2.0 application, use the **callapplicationsessionstart** command in privileged EXEC mode.

call application session start instance-name [application-name]

## **Syntax Description**

instance-name	Alphanumeric label that uniquely identifies this application instance.	
application-name	(Optional) Name of the Tcl application. This is the name of the application that was assigned with the <b>callapplicationvoice</b> command.	
	Note	This argument is optional if the application instance was previously started and stopped.

#### **Command Default**

None

#### **Command Modes**

Privileged EXEC (#)

#### **Command History**

Release	Modification	
12.3(4)T	This command was introduced.	

# **Usage Guidelines**

This command starts a new session, or instance, of a Tcl IVR 2.0 application. It cannot start a session for a VoiceXML application because Cisco IOS software cannot start a VoiceXML application without an active call leg.

You can start an application instance only after the Tcl application is loaded onto the gateway with the **callapplicationvoice** command.

Using this command does not restart the session if the gateway reboots. To automatically restart the session if the gateway reboots, use the **callapplicationsessionstart** command in global configuration mode.

To stop an application session once it starts running, use the **callapplicationsessionstop** command.

If the application session stops running, it does not restart unless the gateway reboots and the **callapplicationsessionstart** command is used in global configuration mode. A Tcl script might intentionally stop running by executing a "call close" command for example, or it might fail due to a script error.

You can start multiple instances of the same application by using different instance names.

#### **Examples**

The following example restarts an application session called my\_instance:

call application session start my\_instance

Command	Description
call application session start (global configuration)	Starts a new instance (session) of a Tcl application in global configuration mode.

Command	Description
call application session stop	Stops a voice application session that is running.
show call application services registry	Displays a one-line summary of all registered services.
show call application sessions	Displays summary or detailed information about voice application sessions.

# call application session stop

To stop a voice application session that is running, use the **callapplicationsessionstop** command in privileged EXEC mode.

call application session stop {callid call-id | handle | handle | id | session-id | name | instance-name}

## **Syntax Description**

callid call-id	Call-leg ID that can be displayed in the output from the <b>debugvoipivrscript</b> command if the Tcl script uses puts commands.
handle handle	Handle of a session from the Tcl mod_handle infotag.
id session-id Session ID that can be displayed with the showcallapplicationsessions co	
name instance-name	Instance name that was configured with the <b>callapplicationsessionstart</b> command.

### **Command Default**

None

#### **Command Modes**

Privileged EXEC (#)

#### **Command History**

Release	Modification
12.3(4)T	This command was introduced.

## **Usage Guidelines**

This command stops a Tcl IVR 2.0 or VoiceXML application session that is identified by one of four different methods: call ID, handle, session ID, or instance name. To see a list of currently running applications, use the **showcallapplicationsessions** command.

A Tcl session that is stopped with this command receives a session terminate event. The session is expected to close all call legs and stop. If a session does not close itself after a 10-second timer, it is forcibly stopped and all call legs that it controls disconnect.

Using this command to stop a VoiceXML session immediately stops the document interpretation and disconnects the call leg. No VoiceXML events are thrown.

If you stop a Tcl session that is configured to start with the **callapplicationsessionstart** command in global configuration mode, you must remove the session by using the **nocallapplicationsessionstart** command before you can restart it.

To see a list of stopped sessions, use the **showcallapplicationsessions** command. Only stopped sessions that are configured to start with the **callapplicationsessionstart** command in global configuration mode are displayed. If a session was started with the **callapplicationsessionstart** command in privileged EXEC mode, it is not tracked by the system and it is not shown as stopped in the output of the **showcallapplicationsessions** command.

#### **Examples**

The following example stops an application session called my\_instance:

call application session stop name  $my\_instance$ 

Command	Description
call application session start (global configuration)	Starts a new instance (session) of a Tcl application from global configuration mode.
show call application services registry	Displays a one-line summary of all registered services.
show call application sessions	Displays summary or detailed information about voice application sessions.

# call application stats



Note

Effective with Cisco IOS Release 12.3(14)T, the **callapplicationstats**command is replaced by the **stats** command in application configuration monitor mode. See the **stats** command for more information.

To enable statistics collection for voice applications, use the **callapplicationstats** command in global configuration mode. To reset to the default, use the **no** form of this command.

# call application stats no call application stats

# **Syntax Description**

This command has no arguments or keywords.

#### **Command Default**

Statistics collection is disabled.

#### **Command Modes**

Global configuration (#)

## **Command History**

Release	Modification
12.3(8)T	This command was introduced.
12.3(14)T	This command was replaced by the <b>stats</b> command in application configuration monitor mode.
12.4(24)T	This command was modified. The automatic conversion to the new CLI is replaced with an explicit error message.

## **Usage Guidelines**

To display the application statistics, use the **showcallapplicationsession-level**, **showcallapplicationapp-level**, or **showcallapplicationgateway-level**command. To reset the application counters in history to zero, use the **clearcallapplicationstats** command.

### **Examples**

Effective with Cisco IOS Release 12.4(24)T, the following warning message is displayed to direct users to the replacement command options:

```
Router(config)# call application stats
Warning: This command has been deprecated. Please use the following:
stats
```

The following example enables statistics collection for voice applications:

call application stats

Command	Description
call application event-log	Enables event logging for voice application instances.
call application interface stats	Enables statistics collection for application interfaces.

Command	Description
clear call application stats	Clears application-level statistics in history and subtracts the statistics from the gateway-level statistics.
show call application app-level	Displays application-level statistics for voice applications.
show call application gateway-level	Displays gateway-level statistics for voice application instances.
show call application session-level	Displays event logs and statistics for voice application instances.
stats	Enables statistics collection for voice applications.