

MGCP VoIP call admission control (CAC) has several commands available to analyze call statistics and operation of applications on the gateway. They are classified into these groups for clarity.

Guide Contents
Troubleshooting Cisco IOS Voice Overview
Debug Command Output on Cisco IOS Voice Gateways
Filtering Troubleshooting Output
Cisco VoIP Internal Error Codes
Troubleshooting Cisco IOS Voice Telephony
Troubleshooting Cisco IOS Voice Protocols
Troubleshooting Cisco IOS Telephony Applications
Monitoring the Cisco IOS Voice Network
Cause Codes and Debug Values

Contents

- [1 Troubleshooting MGCP](#)
- [2 Troubleshooting MGCP SRC CAC](#)
- [3 Troubleshooting MGCP RSVP CAC](#)
- [4 Troubleshooting MGCP SA Agent CAC](#)

Troubleshooting MGCP

To provide information about the operation of the MGCP application, use the following commands in privileged EXEC mode:

Command	Purpose
Router# debug mgcp all	Displays real-time information about MGCP errors, events, media, packets, parser, system resource check (SRC), and VoIP call admission control (CAC)
Router# debug mgcp errors {endpoint endpoint-name}	Displays MGCP errors
Router# debug mgcp events {endpoint endpoint-name}	Displays MGCP events
Router# debug mgcp media {endpoint endpoint-name}	Displays MGCP tone and signal information
Router# debug mgcp packets {endpoint endpoint-name input-hex}	Displays MGCP packet information, with input packets optionally in hexadecimal format
Router# debug mgcp parser	Displays MGCP parser and builder information
Router# debug mgcp src	Displays MGCP SRC CAC information
Router# debug mgcp voipcac	Turns on debugging messages for the VoIP CAC process at the MGCP application layer

Troubleshooting MGCP SRC CAC

To help identify SRC CAC problems, use the following commands in privileged EXEC mode:

Command	Purpose
Router# show call threshold {status [unavailable] stats}	Displays status of configured triggers or statistics for application programming interface (API) calls that were made to global and interface resources
Router# show mgcp statistics	Displays MGCP statistics, including those for MGCP SRC VoIP CAC
Router# clear call threshold stats	Clears call threshold statistics
Router# clear mgcp src-stats	Clears statistics gathered for MGCP SRC CAC
Router# debug call threshold	Displays details of trigger actions
Router# debug mgcp src	Provides debug information for MGCP SRC CAC calls

Troubleshooting MGCP RSVP CAC

To identify and trace RSVP CAC problems, use the following commands in privileged EXEC mode:

Command	Purpose
Router# show call fallback cache	Displays a network congestion level check result if one has been cached
Router# show call rsvp-sync stats	Displays statistics for calls that attempted RSVP reservation
Router# show call rsvp-sync conf	Displays the configuration settings for RSVP synchronization
Router# show ip rsvp reservation	Displays the RSVP-related receiver information currently in the database
Router# debug call rsvp-sync func-trace	Displays messages about software functions called by RSVP
Router# debug call rsvp-sync events	Displays events that occur during RSVP setup
Router# debug ip rsvp detail	Displays detailed information about RSVP-enabled and Subnetwork Bandwidth Manager (SBM) message processing

Troubleshooting MGCP SA Agent CAC

To help identify Service Assurance (SA) Agent CAC problems, use the following commands in privileged EXEC mode:

Command	Purpose
Router# show call fallback cache	Displays a network congestion level check result if one has been cached
Router# debug call fallback probes	Verifies that probes are being sent correctly
Router# debug call fallback detail	Displays details of the VoIP call fallback
Router# show rtr	Displays global information about the SA agent feature. There are a number of

application {tabular full}	other options for the show rtr command; use CLI help to browse a list of choices
Router# debug rtr error	Enables logging of SA agent run-time errors
Router# debug rtr trace	Traces the execution of an SA agent operation