

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.

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## Troubleshooting MGCP

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

<b>Command</b>	<b>Purpose</b>
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 <b>show rtr</b> 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