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:

| 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 |