

IP MGCP Phone with BTS 10200 Configuration Example

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Introduction

This document provides a sample configuration for Cisco IP phones controlled via the Media Gateway Control Protocol (MGCP) by a Cisco BTS 10200. The configuration is suitable for basic call handling and in a lab environment. No advanced call feature is covered.

Prerequisites

Requirements

Before you attempt this configuration, ensure that you meet these requirements:

- The Cisco IP phone is loaded with a software image that supports MGCP.
- The BTS 10200 application is installed and both the Call Agent (CA) and the Element Management System (EMS) are operative.
- A basic Dial Plan is already in place in the BTS 10200 configuration.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco BTS 10200 version 4.1 and later
- Cisco 7940/7960 IP phone with 7.1.0 (and later) MGCP software

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

Background Information

When the Cisco IP phone 7960/7940 boots, it first receives the IP address from the Dynamic Host Configuration Protocol (DHCP) server (if not configured for a static IP address). It then contacts the TFTP server to collect the configuration (and if necessary to load a new software image).

The phone specific configuration file for an MGCP software image is called 'MGC<Phone_MAC_address>.cnf'.

The phone CLI is accessible via Telnet.

Configure

In this section, you are presented with the information to configure the features described in this document.

Note: To find additional information on the commands used in this document, use the Command Lookup Tool (registered customers only) .

Network Diagram

This document uses this network setup:



Configurations

This document uses these configurations:

- Cisco 7940 IP Phone
- BTS 10200

This is the IP phone configuration as it appears from the phone CLI. The configuration entries are the same (except the one that needs to be changed via DHCP). They can be used in the phone specific configuration file on the TFTP server (in this case, it is called MGC000CCE62B656.cnf).

Please note these items during configuration:

- The phone gets the first configuration entries (IP address, mask, gateway, DNS, domain, TFTP server, IP address) from the DHCP server (or via a static configuration in the phone configuration menu).
- my_name is the phone name combination of the word MGC and the phone MAC address.

- `tos_media` is the IP Type Of Service (TOS) that is set to **7** in the default files. The standard practice is to change it to **5** (critical) in VoIP.
- `telnet_level` should be set to **2** to get full access to the phone via the CLI. This is useful in a lab environment.
- Set `mgc_gw_controller` to the IP address of the Call Agent. In this example, it is set to the virtual IP address used for MGCP by the BTS. This address is moved to the secondary Call Agent in case of failover on the primary Call Agent.
- For `mgcp_input_port` and `mgcp_output_port` you can leave the value proposed in the default file. They work fine with BTS 10200.
- The DTMP configuration can be added if required.
- `mgcp_endpoint_id` *must* correspond to the endpoint identifier used by the BTS 10200.

Cisco 7940 IP Phone

```

MGCP Phone> show configuration
----- Current *FLASH* Configuration -----
Platform : Cisco IP Phone 7940
Elapsed Time: 2 days, 18:35:37

dhcp_server : 10.48.84.43
my_ip_addr : 10.48.84.201
subnet_mask : 255.255.255.0
defaultgw : 10.48.84.1
backupgw_1 : 10.48.84.119
dyn_dns_addr_1 : 0.0.0.0
dyn_dns_addr_2 : 0.0.0.0
dns_addr : 144.254.10.123
dns_backup_1: 144.254.71.184
primary_tftp_addr : 10.48.84.20
dyn_tftp_addr : 0.0.0.0
my_mac_addr : 000c:ce62:b656
domain_name : cisco.com

my_name : MGC000CCE62B656
Status Flags : 12300000

network_media_type : Auto
network_port2_type : Hub/Switch
tos_media : 5
phone_label : ""
tftp_cfg_dir : ""
phone_password : *****
phone_prompt : "MGCP Phone"
language : english
snmp_mode : Unicast
snmp_server : "10.48.84.43"
time_zone : GMT
dst_offset : 1
dst_start_month : "April"
dst_start_day : 0
dst_start_day_of_week : "Sun"
dst_start_week_of_month : 1
dst_start_time : 2
dst_stop_month : "Oct"
dst_stop_day : 0
dst_stop_day_of_week : "Sun"
dst_stop_week_of_month : 8
dst_stop_time : 2
dst_auto_adjust : 1
time_format_24hr : 1
date_format : D/M/Y
nat_enable : 0

```

```

nat_address : Unprovisioned
voip_control_port : 5060
start_media_port : 16384
end_media_port : 32766
sync : "1"
xml_card_dir : ""
xml_card_file : "CARD.XML"
telnet_level : 2
services_url : ""
directory_url : ""
logo_url : "http://10.48.84.20/tftpboot/two_bongo.bmp"
http_proxy_addr : Unprovisioned
http_proxy_port : 80
garp_enable : 1
mgcp_gw_controller : 10.48.84.74
mgcp_input_port : 2427
mgcp_output_port : 2727
use_mac_name : 0
dtmf_outofband : none
dtmf_avt_payload : 101
mgcp_keepalive : 0
mgcp_keepalive_timer : 30
use_domain_name_braces : 0
mgcp_endpoint_id : "AALN/S0/SU0/0"
MGCP Phone>

```

This is the BTS 10200 configuration (with the assumption that a Dial Plan is already in place). The **show** commands for verification purposes are also included.

The commands to activate the newly configured components are included in the last part of this configuration. It is necessary to make sure that the endpoint name in the "add termination" and "add subscriber" corresponds to the one configured in the IP phone.

| BTS 10200 |
|---|
| <pre> CLI>add mgw-profile id=79XX-MGCP Reply : Success: CLI add successful Transaction 108989191215206 was processed. CLI>add mgw id=7940-mgcp-1; call_agent_id=CA146; type=RGW; mgw_profile_id=79XX-MGCP; tsap_addr=10.48.84.201 !--- This command is brought down to a second line !--- for spatial reasons. Reply : Success: CLI add successful Transaction 108989192175706 was processed. CLI>show mgw ID=7940-mgcp-1 TSAP_ADDR=10.48.84.201 CALL_AGENT_ID=CA146 MGW_PROFILE_ID=79XX-MGCP STATUS=OOS MGW_MONITORING_ENABLED=Y TYPE=RGW CLI>add termination mgw_id=7940-mgcp-1; port_start=0; port_end=1; prefix=AALN/S0/SU0/ ; type=line !--- This command is brought down to a second line !--- for spatial reasons. </pre> |

Please wait....

Reply : Success: Transaction 108989213885606 was processed.

*!--- This shows the configuration already in place for
!--- the dial plan and the digit map.*

CLI>**show dial-plan**

ID=dp1
DIGIT_STRING=46
DEST_ID=dest-to-csps1
SPLIT_NPA=NONE
DEL_DIGITS=0
MIN_DIGITS=3
MAX_DIGITS=14
NOA=UNKNOWN

ID=dp1
DIGIT_STRING=888999
DEST_ID=local-call
SPLIT_NPA=NONE
DEL_DIGITS=0
MIN_DIGITS=3
MAX_DIGITS=14
NOA=UNKNOWN

Reply : Success: Entries 1-5 of 5 returned.

CLI> **show subscriber-profile**

ID=subpf1
DIGIT_MAP_ID=dig-map-1
DIAL_PLAN_ID=dp1
LOCAL_PFX1_OPT=NR
TOLL_PFX1_OPT=RQ
POP_ID=1
OLI=0
EA_USE_PIC1=Y

Reply : Success: Entry 1 of 1 returned.

CLI> **show digit-map**

ID=dig-map-1
DIGIT_PATTERN=[8]xxxxxxxx|[4-6]xxx|[9]xxxxxxxx

Reply : Success: Entry 1 of 1 returned.

=====
CLI>**add subscriber id=7940-mgcp-1=sub1; DN1=8889996841; TERM_ID=AALN/S0/SU0/0;
MGW_ID=7940-mgcp-1; SUB_PROFILE_ID=subpf1**

*!--- This command is brought down to a second line
!--- for spatial reasons.*

Reply : Success: Transaction 108989266230406 was processed.

CLI>**control mgw ID=7940-mgcp-1; target-state=INS; mode=forced**

```

MGW ID -> 7940-mgcp-1
INITIAL STATE -> ADMIN_OOS
REQUEST STATE -> ADMIN_INS
RESULT STATE -> ADMIN_INS
FAIL REASON -> ADM found no failure
REASON -> ADM executed successful
RESULT -> ADM configure result in success

Reply : Success: CLI change successful

CLI> equip subscriber-termination id=7940-mgcp-1=sub1

ID -> Subscriber ID -> 7940-mgcp-1=sub1
FAIL REASON -> ADM found no failure
REASON -> ADM executed successful
RESULT -> ADM configure result in success

Reply : Success: CLI change successful

CLI>control subscriber-termination id= 7940-mgcp-1=sub1;
      target_state=INS; mode=forced

!--- This command is brought down to a second line
!--- for spatial reasons.

INITIAL STATE -> ADMIN_OOS
ID -> 7940-mgcp-1=sub1
REQUEST STATE -> ADMIN_INS
RESULT STATE -> ADMIN_INS
FAIL REASON -> ADM found no failure
REASON -> ADM executed successful
RESULT -> ADM configure result in success

Reply : Success: CLI change successful

```

Verify

See the BTS 10200 configuration section for the verification **show** commands.

Certain **show** commands are supported by the Output Interpreter Tool (registered customers only) , which allows you to view an analysis of **show** command output.

Troubleshoot

This section provides information you can use to troubleshoot your configuration.

There are three places where you can collect useful troubleshooting information:

- Phone **debug** commands.
- BTS 10200 Call Agent log files.
- Packet trace as UNIX snoop or a Cisco snooper.

Troubleshooting Commands

Note: Before issuing **debug** commands, refer to Important Information on Debug Commands.

- **debug mgcpio** Displays the MGCP message received and transmitted by the phone.
- **debug mgcp_parse** Displays possible message interpretation errors.

The BTS 10200 Call Agent log files are located in the /opt/Optical/CA146/bin/logs directory.

This output is an example of a BTS 10200 log message for a good call. Issue the **tail -f /opt/Optical/CA146/bin/logs/trace_<replace_with_current_trace_file_name>.log | egrep '(BCM|MGA)'** command to run this trace.

Note: The lines in this output have been brought down to second and third lines for spatial reasons.

```
[I3 16:13:27.469 MGA      01-2 -----]
"sent setup.ind-->:ep=AALN/S0/SU0/0@10.48.84.201 termIdx=27 csaId=0 oper=0x181
digitCount=10 digits=8889996811" [mga_sig_sai.c:1435]

[I3 16:13:27.469 BCM      01-1 -----]
" 57 MGA-->SetupInd(OBCSM)-->BCM_97 :: s: 41 ss: 90 ps: 1 "
[bcm_calltrace.c:482]

[I3 16:13:27.469 BCM      01-1 -----]
"ANI: 8889996841      ,OEP : AALN/S0/SU0/0@7940-mgcp-1      ,
DNIS : 8889996811TEP : " [bcm_calltrace.c:521]

[I3 16:13:27.469 BCM      01-1 -----]
" 57 BCM-->SetupReqInd(TBCSM)-->BCM_107 :: s: 20 ss: 91 ps: 0 "
[bcm_calltrace.c:466]

[I3 16:13:27.469 BCM      01-1 -----]
"Create Conn issued: CLeg = 207, PLeg = 217" [bcm_tbcsm_sa_proc.c:4509]

[I3 16:13:27.469 MGA      01-2 -----]
"createconn.req recvd<--:for ep=AALN/S0/SU0/0@10.48.84.201 termIdx=27 oper=181
connRef=52 rs_methd=0 connMode=2 cmd_seq_count=1" [mga_conn_control.c:484]

[I3 16:13:27.492 MGA      01-1 -----]
"createconn.req recvd<--:for ep=aaln/S1/1@vsig-iad-2.cisco.com termIdx=1
oper=181 connRef=62 rs_methd=0 connMode=3 cmd_seq_count=0" [mga_conn_control.c:484]

[I3 16:13:27.555 BCM      01-1 -----]
" 57 MGA-->CreateConnectionAck(TBCSM)-->BCM_107 :: s: 23 ss: 83 ps: 63 "
[bcm_calltrace.c:482]

[I3 16:13:27.555 BCM      01-1 -----]
" 57 BCM_107-->SetupReq(TBCSM)-->MGA :: s: 23 ss: 89 ps: 63 "
[bcm_calltrace.c:497]

[I3 16:13:27.555 BCM      01-1 -----]
"ANI: 8889996841      ,OEP : AALN/S0/SU0/0@7940-mgcp-1      , DNIS : 8889996811
TEP : aaln/S1/1@vsig-iad-2 " [bcm_calltrace.c:521]

[I3 16:13:27.555 MGA      01-1 -----]
"setup.req recvd<-- termIdx=1 mgaState=CALL_DISCONNECT_IDLE oper=0x181"
[mga_sig_sai.c:218]

[I3 16:13:27.566 MGA      01-1 -----]
"sent alert.ind-->:ep=aaln/S1/1@vsig-iad-2.cisco.com termIdx=1
csaId=107 pd=0 userInfoType=0 oper=0x181" [mga_sig_sai.c:1692]

[I3 16:13:27.566 BCM      01-1 -----]
" 57 MGA-->AlertingInd(TBCSM)-->BCM_107 :: s: 23 ss: 89 ps: 63 "
[bcm_calltrace.c:482]

[I3 16:13:27.566 BCM      01-1 -----]
" 57 BCM-->AlertingReqInd(OBCSM)-->BCM_97 :: s: 7 ss: 82 ps: 7 "
```

```
[bcm_calltrace.c:466]

[I3 16:13:27.566 BCM      01-1 -----]
" 57 BCM_97-->AlertingReq(OBCSM)-->MGA :: s: 8 ss: 84 ps: 45 "
[bcm_calltrace.c:497]

[I3 16:13:27.566 MGA      01-2 -----]
"alert.req recvd<-- termIdx=27 mgaState=ORIG_START oper=0x181"
[mga_sig_sai.c:304]

[I3 16:13:29.457 MGA      01-1 -----]
"sent setup.conf-->:ep=aaln/S1/1@vsig-iad-2.cisco.com termIdx=1 csaId=107
oper=0x181" [mga_sig_sai.c:1183]

[I3 16:13:29.457 BCM      01-1 -----]
" 57 MGA-->SetupConf(TBCSM)-->BCM_107 :: s: 24 ss: 84 ps: 64 "
[bcm_calltrace.c:482]

[I3 16:13:29.457 BCM      01-1 -----]
" 57 BCM-->SetupRespConf(OBCSM)-->BCM_97 :: s: 8 ss: 84 ps: 45 "
[bcm_calltrace.c:466]

[I3 16:13:29.457 BCM      01-1 -----]
" 57 BCM_97-->ModifyConnection(OBCSM)-->MGA :: s: 9 ss: 85 ps: 49 "
[bcm_calltrace.c:497]

[I3 16:13:29.457 BCM      01-1 -----]
" 57 BCM_97-->SetupResp(OBCSM)-->MGA :: s: 9 ss: 85 ps: 49 "
[bcm_calltrace.c:497]

[I3 16:13:29.457 MGA      01-2 -----]
"setup.resp recvd<-- termIdx=27 mgaState=ORIG_START oper=0x101"
[mga_sig_sai.c:372]

[I3 16:13:29.478 BCM      01-1 -----]
" 57 MGA-->ModifyConnectionAck(OBCSM)-->BCM_97 :: s: 9 ss: 85 ps: 49 "
[bcm_calltrace.c:482]

[I3 16:13:35.040 MGA      01-1 -----]
"sent rel.ind-->:ep=aaln/S1/1@vsig-iad-2.cisco.com termIdx=1 csaId=107
digits= digitCount=0 oper=0x101" [mga_sig_sai.c:1518]

[I3 16:13:35.040 BCM      01-1 -----]
" 57 MGA-->ReleaseInd(TBCSM)-->BCM_107 :: s: 25 ss: 85 ps: 67 "
[bcm_calltrace.c:482]

[I3 16:13:35.040 BCM      01-1 -----]
"cause action = 2 (1=re-attempt 4=route-advacne 3=re-route 2=no"
[bcm_bcsn_util.c:6963]

[I3 16:13:35.040 BCM      01-1 -----]
" 57 BCM-->SuspendReqInd(OBCSM)-->BCM_97 :: s: 9 ss: 85 ps: 49 "
[bcm_calltrace.c:466]

[I3 16:13:36.391 MGA      01-2 -----]
"sent rel.ind-->:ep=AALN/S0/SU0/0@10.48.84.201 termIdx=27 csaId=97
digits= digitCount=0 oper=0x101" [mga_sig_sai.c:1518]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 MGA-->ReleaseInd(OBCSM)-->BCM_97 :: s: 10 ss: 88 ps: 50 "
[bcm_calltrace.c:482]

[I3 16:13:36.391 BCM      01-1 -----]
"cause action = 2 (1=re-attempt 4=route-advacne 3=re-route 2=no"
[bcm_bcsn_util.c:6963]
```

```

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM_97-->DeleteConnection(OBCSM)-->MGA :: s: 53 ss: 91 ps: 10 "
[bcm_calltrace.c:497]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM-->ReleaseReqInd(TBCSM)-->BCM_107 :: s: 26 ss: 88 ps: 26 "
[bcm_calltrace.c:466]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM_107-->DeleteConnection(TBCSM)-->MGA :: s: 71 ss: 91 ps: 26 "
[bcm_calltrace.c:497]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM_107-->ReelaseResp(TBCSM)-->MGA :: s: 20 ss: 91 ps: 26 "
[bcm_calltrace.c:497]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM-->ReleaseRespConf(OBCSM)-->BCM_97 :: s: 53 ss: 91 ps: 10 "
[bcm_calltrace.c:466]

[I3 16:13:36.391 BCM      01-1 -----]
" 57 BCM_97-->ReelaseResp(OBCSM)-->MGA :: s: 1 ss: 91 ps: 10 "
[bcm_calltrace.c:497]

[I3 16:13:36.391 MGA      01-2 -----]
"deleteconn.req recvd<--:for ep=AALN/S0/SU0/0@10.48.84.201 termIdx=27
oper=100 connRef=52 isTermInitialized=1 operation=8 cmd_seq_count=1"
[mga_conn_control.c:1188]

[I3 16:13:36.391 MGA      01-2 -----]
"rel.resp recvd<-- termIdx=27 mgaState=MGA_CALL_DISCONNECT oper=0x100"
[mga_sig_sai.c:512]

[I3 16:13:36.391 MGA      01-1 -----]
"deleteconn.req recvd<--:for ep=aaln/S1/1@vsig-iad-2.cisco.com termIdx=1
oper=100 connRef=62 isTermInitialized=1 operation=8 cmd_seq_count=0"
[mga_conn_control.c:1188]

[I3 16:13:36.391 MGA      01-1 -----]
"rel.resp recvd<-- termIdx=1 mgaState=MGA_CALL_DISCONNECT oper=0x100"
[mga_sig_sai.c:512]

[I3 16:13:36.402 MGA      01-2 -----]
"delete conn ack sent-->:connRef=52 termIdx=27" [mga_conn_control.c:1619]

[I3 16:13:36.412 BCM      01-1 -----]
" 57 MGA-->DeleteConnectionAck(OBCSM)-->BCM_97 :: s: 1 ss: 91 ps: 10 "
[bcm_calltrace.c:482]

[I3 16:13:36.412 MGA      01-1 -----]
"delete conn ack sent-->:connRef=62 termIdx=1" [mga_conn_control.c:1619]

[I3 16:13:36.412 BCM      01-1 -----]
" 57 MGA-->DeleteConnectionAck(TBCSM)-->BCM_107 :: s: 20 ss: 91 ps: 26 "
[bcm_calltrace.c:482]^Croot@vsig-bts4#

```

This output is an example packet trace of a Cisco snoop. The trace starts when the IP phone boots and the trace contains a voice call.

Note: The lines in this output have been brought down to second and third lines for spatial reasons.

```

18:09:32.826112 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> RSIP 1 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
RM: restart
18:09:32.827193 10.48.84.74:2727 10.48.84.201:2427

```

MGCP..... -> 200 1 OK
N: vbts-MGCP-1.vsig.cisco.com:2727
18:09:32.910324 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> RQNT 53687393 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
N: vbts-MGCP-1.vsig.cisco.com:2727
X: 1B00000001
R: L/hd(N)
S:
K: 53687392
18:09:32.917491 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687393 OK

18:10:48.180429 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687394 OK
18:10:52.119512 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> NTFY 3 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
N: vbts-MGCP-1.vsig.cisco.com:2727
X: 1B00000002
O: D/8, D/8, D/8, D/9, D/9, D/9, D/6, D/8, D/1, D/1
18:10:52.120878 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> 200 3 OK
18:10:52.121291 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> RQNT 53687395 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
X: 1B00000003
R: L/hu(N),L/hf(N)
K: 53687394
18:10:52.130754 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687395 OK
18:10:52.132146 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> CRCX 53687396 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
C: 3c
L: p:10-30, a:PCMU;PCMA;G.729A, e:off, s:on, t:b0, nt:IN, r:be
M: recvonly
K: 53687395
18:10:52.147662 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687396 OK
I: 0
v=0
o=- 7940 7940 IN IP4 10.48.84.201
s=MGCP Call
c=IN IP4 10.48.84.201
t=0 0
m=audio 21732 RTP/AVP 0 18
a=rtpmap:0 PCMU/8000
18:10:52.150336 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> CRCX 126 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
C: 3c
L: p:10-30, a:PCMU;PCMA;G.729A, e:off, s:on, t:b0, nt:IN, r:be
M: sendrecv
K: 125

v=0
o=- 7940 7940 IN IP4 10.48.84.201
s=MGCP Call
c=IN IP4 10.48.84.201
t=0 0
m=audio 21732 RTP/AVP 0 18
a=rtpmap:0 PCMU/8000
18:10:52.174270 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> 200 126 OK
I: 10
v=0
o=- 16 0 IN IP4 10.48.84.45
s=Cisco SDP 0
c=IN IP4 10.48.84.45
t=0 0

```

m=audio 17804 RTP/AVP 0 100
a=rtpmap:100 X-NSE/8000
a=fmtp:100 200-202
a=X-sqn:0
a=X-cap: 1 audio RTP/AVP 100
a=X-cpar: a=rtpmap:100 X-NSE/8000
a=X-cpar: a=fmtp:100 200-202
a=X-cap: 2 image udptl t38
18:10:52.177324 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> MDCX 53687397 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
I: 0
C: 3c
M: recvonly
K: 53687396

v=0
o=- 16 0 IN IP4 10.48.84.45
s=Cisco SDP 0
c=IN IP4 10.48.84.45
t=0 0
m=audio 17804 RTP/AVP 0 100
a=rtpmap:100 X-NSE/8000
a=fmtp:100 200-202
a=X-sqn:0
a=X-cap:1 audio RTP/AVP 100
a=X-cpar:a=rtpmap:100 X-NSE/8000
a=X-cpar:a=fmtp:100 200-202
a=X-cap:2 image udptl t38
18:10:52.198348 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687397 OK
I: 0
v=0
o=- 7940 7940 IN IP4 10.48.84.201
s=MGCP Call
c=IN IP4 10.48.84.201
t=0 0
m=audio 21732 RTP/AVP 0
a=rtpmap:0 PCMU/8000
18:10:52.201049 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> RQNT 127 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
X: 10000002C
R: L/hd(N)
S: L/rg
K: 126

18:10:52.207257 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> 200 127 OK
18:10:52.210515 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> RQNT 53687398 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
X: 1B00000004
R: L/hu(N)
S: G/rt
K: 53687397

18:10:52.218395 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687398 OK
18:10:55.690844 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> NTFY 25 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
N: vbts-MGCP-1.vsig.cisco.com:2427
X: 10000002C
O: L/hd

18:10:55.691858 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> 200 25 OK
18:10:55.692265 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> RQNT 128 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
X: 10000002D
R: L/hu(N),L/hf(N)
K: 127

```

18:10:55.697682 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> 200 128 OK

18:10:55.702798 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> MDCX 53687399 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
I: 0
C: 3c
M: sendrecv
K: 53687398

18:10:55.723871 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687399 OK
I: 0
v=0
o=- 7940 7940 IN IP4 10.48.84.201
s=MGCP Call
c=IN IP4 10.48.84.201
t=0 0
m=audio 21732 RTP/AVP 0
a=rtpmap:0 PCMU/8000

18:10:55.724954 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> RQNT 53687400 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
X: 1B00000005
R: L/hu(N),L/hf(N)
S:
K: 53687399

18:10:55.733586 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687400 OK

18:11:00.264348 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> NTFY 26 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
N: vbts-MGCP-1.vsig.cisco.com:2427
X: 10000002D
O: L/hu

18:11:00.265618 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> 200 26 OK

18:11:00.265967 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> RQNT 129 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
X: 10000002E
R: L/hd(N)
K: 128

18:11:00.271426 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> 200 129 OK

18:11:01.787031 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> NTFY 4 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
N: vbts-MGCP-1.vsig.cisco.com:2727
X: 1B00000005
O: L/hu

18:11:01.788209 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> 200 4 OK

18:11:01.788674 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> RQNT 53687401 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
X: 1B00000006
R: L/hd(N)
K: 53687400

18:11:01.793781 10.48.84.74:2427 10.48.84.45:2427
MGCP..... -> DLCX 130 aaln/S1/1@vsig-iad-2.cisco.com MGCP 1.0
I: 10
C: 3c
K: 129

18:11:01.797380 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 200 53687401 OK

18:11:01.798019 10.48.84.74:2727 10.48.84.201:2427
MGCP..... -> DLCX 53687402 AALN/S0/SU0/0@10.48.84.201 MGCP 1.0
I: 0
C: 3c
K: 53687401

18:11:01.805858 10.48.84.201:2427 10.48.84.74:2727
MGCP..... -> 250 53687402 OK

18:11:01.815300 10.48.84.45:2427 10.48.84.74:2427
MGCP..... -> 250 130 OK
P: PS=378, OS=30004, PR=304, OR=48640, PL=0, JI=65, LA=0

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Related Information

- **Voice Technology Support**
- **Voice and IP Communications Support**
- **Recommended Reading: Troubleshooting Cisco IP Telephony**
- **Technical Support – Cisco Systems**

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