



300-080^{Q&As}

Troubleshooting Cisco IP Telephony and Video

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QUESTION 1

To maintain proper database integrity, what is the recommended maximum round-trip delay between multiple Cisco VCS appliances in a cluster?

- A. 10 ms
- B. 15 ms
- C. 25 ms
- D. 30 ms
- E. 50 ms
- F. 80 ms

Correct Answer: D

QUESTION 2

Refer to the exhibit. When a Cisco Unified Communications Manager Express advertises the directory number pattern in the exhibit, what would the learned pattern be in the RTMT tool on the Cisco Unified Communications Manager?

```
voice service saf
  profile trunk-route 1
    session protocol sip interface Loopback1 transport tcp port 5060
  !
  profile dn-block 1 alias-prefix 1972555
    pattern 1 type extension 4XXX
  !
  profile callcontrol 1
    dn-service
      trunk-route 1
      dn-block 1
  !
  channel 1 vrouter SAF asystem 1
    subscribe callcontrol wildcarded
    publish callcontrol 1
```

- A. 4XXX and the ToDID will be 0:+1972555
- B. 4XXX and the ToDID will be 0:+19725554XXX
- C. 4XXX and the ToDID will be 0:19725554XXX
- D. 4XXX and the ToDID will be 0:1972555
- E. 19725554XXX and the ToDID will be 0:+1972555



Correct Answer: D

The answer is 4XXX and the ToDID will be 0:1972555.

Exhibit explain profile dn-block1 alias-prefix 1972555 and pattern 1 type extension 4xxx.

QUESTION 3

In a single-site deployment model, the internal endpoints are unable to dial from one to the other. What are two possible causes? (Choose two.)

- A. The PSTN gateway is not configured.
- B. The called endpoint does not have the SIP trunk enabled.
- C. The called endpoint is not registered.
- D. The calling endpoint is not in the CSS of the called endpoint.
- E. The called endpoint is not in the partition of the calling endpoint.
- F. The calling endpoint is not configured for the correct CoS.

Correct Answer: CF

QUESTION 4

A user is dialing 1000 to reach a local PSTN destination and the call is not successful. Which command does an engineer execute on the PSTN Gateway to see how the call is routed?

- A. voiceGWay(config)# show dialplan number 1000
- B. voiceGWay(config)# show all voip dialpeer
- C. voiceGWay(config)# show sip 1000 voip dialpeer
- D. voiceGWay(config)# show version

Correct Answer: A

QUESTION 5

Refer to topology and Exhibits below: What is the reason that this MGCP gateway is not registered with Cisco Unified Communications Manager?



Topology

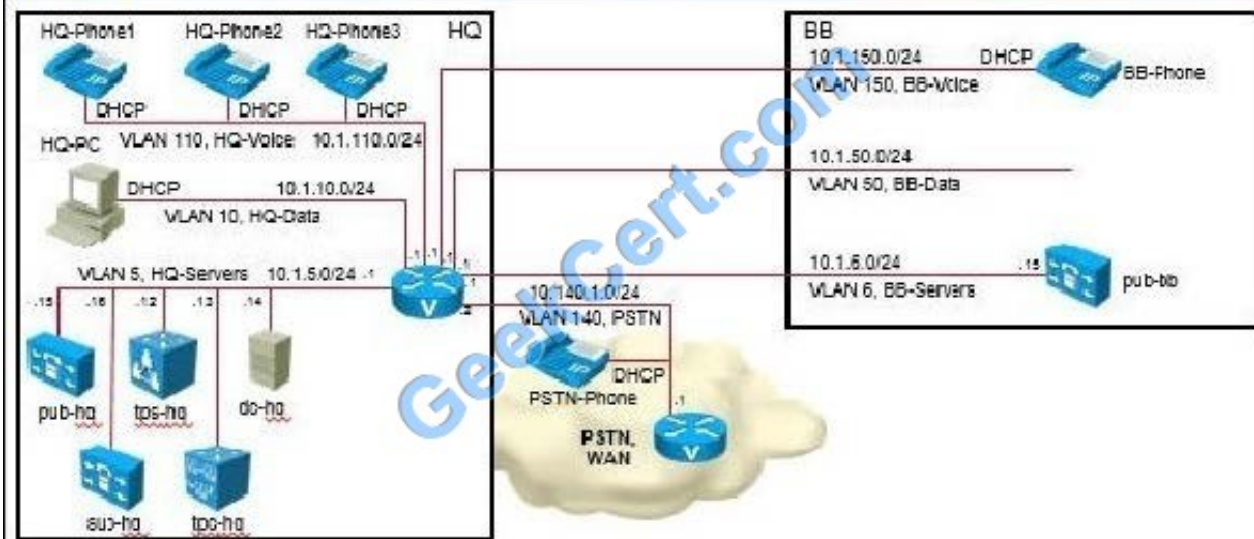




Exhibit2

Gateway Details

Product	Cisco 3925
Gateway	MGCP-GW
Protocol	MGCP
⚠ Device is not trusted	
Domain Name *	<input type="text" value="MGCP-GW"/>
Description	<input type="text" value="MGCP-GW"/>
Cisco Unified Communications Manager Group *	<input type="text" value="Default"/>

Configured Slots, VICs and Endpoints

Module in Slot 0	<input type="text" value="NM-4VWIC-MBRD"/>
Subunit 0	<input type="text" value="VWIC2-1MFT-T1E1-T1"/>
	0/0/0

Exhibit3

Device Information

Product	Cisco MGCP T1 Port
Gateway	MGCP-GW
Device Protocol	Digital Access PRI
Registration:	Unknown
IPv4 Address:	None
⚠ Device is not trusted	
End-Point Name *	S0/SU0/DS1-0@MGCP-GW
Description	<input type="text" value="S0/SU0/DS1-0@MGCP-GW"/>

Exhibit4

```
MGCP Domain Name: HQ
Priority      Status      Host
-----
Primary      Backup Ready    10.1.5.25
First Backup  Registering with CM 10.1.5.26
Second Backup None

Current active Call Manager: None
Backhaul/Redundant link port: 2428
Failover Interval: 30 seconds
Keepalive Interval: 15 seconds
Last keepalive sent: 21:44:55 UTC Feb 10 2015 (elapsed time: 00:20:03)
Last MGCP traffic time: 22:04:42 UTC Feb 10 2015 (elapsed time: 00:00:15)
Last failover time: 22:04:42 UTC Feb 10 2015 from (10.1.5.25)
Last switchback time: 22:04:12 UTC Feb 10 2015 from (10.1.5.26)
Switchback mode: Graceful
MGCP Fallback mode: Not Selected
Last MGCP Fallback start time: None
Last MGCP Fallback end time: None
MGCP Download Tones: Disabled
TFTP retry count to shut Ports: 2

FAX mode: disable
Configuration Error History:
```

A. The primary server address is incorrect.



- B. The MGCP domain name is incorrect on either the Cisco Unified Communications Manager or the router.
- C. Backhaul/Redundant link port is incorrect
- D. This MGCP gateway is not down; it is operational.

Correct Answer: B

QUESTION 6

Which four performance counters are available when monitoring a Cisco MTP device using the Cisco Unified Communications Manager RTMT? (Choose four.)

- A. Resource Total
- B. Resource Available
- C. Out of Resources
- D. Resource Idle
- E. Resource Active
- F. MTP Streams Active
- G. MTP Connection Lost
- H. MTP Instances Active

Correct Answer: ABCE

QUESTION 7

What is the maximum number of characters that you can use in Service Advertisement Framework (SAF) forwarder name?

- A. 10
- B. 20
- C. 30
- D. 40
- E. 50
- F. 60

Correct Answer: E

QUESTION 8



Refer to the exhibits. Assume that all learned SAF routes are placed in the SAF_Pt partition. An IP phone CSS contains the following partitions in this order: Internal_Pt, SAF_Pt. When the IP phone places a call to 3001, what will occur?

Learned Pattern						
				Select a Node	CUCM801Pub1 ▼	
Pattern	TimeStamp	Status	Protocol	AgentId	IP Address	ToDID
3XXX	2010/04/03 13:55:55	Reachable	SIP	CID10.1.5.11	10.1.5.11(5060)	0:+44228822
3XXX	2010/04/03 13:55:55	Reachable	H323	CID10.1.5.11	10.1.5.11(54532)	0:+44228822

Pattern Definition	
Route Pattern*	3XXX
Route Partition	Internal_Pt ▼
Description	
Numbering Plan	-- Not Selected -- ▼
Route Filter	< None > ▼
MLPP Precedence*	Default ▼
Resource Priority Namespace Network Domain	< None > ▼
Route Class*	Default ▼
Gateway/Route List*	SIP_Trunk ▼ (Edit)
Route Option	<input type="radio"/> Route this pattern <input checked="" type="radio"/> Block this pattern No Error ▼
Call Classification*	OffNet ▼
<input type="checkbox"/> Allow Device Override	<input checked="" type="checkbox"/> Provide Outside Dial Tone
<input type="checkbox"/> Require Forced Authorization Code	<input type="checkbox"/> Allow Overlap Sending
<input type="checkbox"/> Urgent Priority	
Authorization Level*	0

- A. The call will succeed and will be placed via the SAF network. SAF-learned routes always take precedence.
- B. The call will fail because it will be blocked by the route pattern.
- C. The call will be placed in a round-robin fashion between the SAF network and SIP_Trunk.
- D. The call will be placed in a round-robin fashion between the SAF network and SIP_Trunk. Every other call will fail.

Correct Answer: B

QUESTION 9

During a conference that is hosted on a Cisco TelePresence Server, which three circumstances determine that some



participants do not have video, but they do have audio? (Choose three.)

- A. The participants have no video component.
- B. No free screen licensing ports are available.
- C. No video ports are available in a slave Cisco TelePresence Server configuration.
- D. The maximum number of participants is exceeded.
- E. In all Cisco TelePresence deployments, some participants are connected only via audio.
- F. No video ports are available in a single Cisco TelePresence Server configuration.

Correct Answer: BCF

QUESTION 10

Which two tools can be used to collect log files for advanced troubleshooting of call setup failures? (Choose two.)

- A. Dialed Number Analyzer on Communications Manager servers
- B. CLI of Communications Manager servers
- C. Cisco Unified Realtime Monitoring Tool for Communications Manager servers
- D. Cisco Call Analyzer for Communications Manager Publisher servers
- E. Cisco Prime Collaboration Provisioning server

Correct Answer: AC

QUESTION 11

Partitions can be assigned to which two items? (choose two)

- A. Directory numbers
- B. Trunks
- C. Devices
- D. Gateways
- E. Ip Phones

Correct Answer: AD



QUESTION 12

When Device Mobility is configured, which parameter does Cisco Unified Communications Manager (CUCM) use to track the location of the phone device?

- A. IP address of the mobile device
- B. region settings under roaming-sensitive setting
- C. location settings under roaming-sensitive setting
- D. network locale
- E. device mobility group
- F. device mobility Content Services Switch (CSS)

Correct Answer: A

QUESTION 13

After you deploy a new Cisco Collaboration solution, users report echoes and choppy voice quality. Which two actions correct the problem? (Choose two.)

- A. Upgrade the Cisco IOS version and flash memory on the Cisco IOS router.
- B. Deploy additional hardware resources
- C. Deploy an echo canceller.
- D. Upgrade Cisco Unified Communications Manager.
- E. Enable QoS on the network.

Correct Answer: CE

QUESTION 14

Refer to the exhibit. Inbound calls via a SIP trunk to the Cisco IP phones that are registered on Cisco Unified Communications Manager are failing. Based on the Cisco CallManager service trace, which action should you take to fix the issue?



```
Invite to CUCM for the number 6500
08212567.002 |19:54:34.362 |AppInfo |SIPtcp- wait_SdlReadRsp: Incoming SIP TCP message
from 10.64.126.18 on port 25091 index 791 with 1274 bytes: [3385498,NET]
INVITE sip:6500@vcs.abc.org SIP/2.0
Via: SIP/2.0/TCP 10.64.126.18:5060;egress-
zone=CUCM;branch=z9hG4bK882fc47c9eeb20b5f03861032a512c4f86476.33073954ac
66c862ebd093dbc29621d6;proxy-call-id=503a0192-3207-11e3-8a26-0010f320f95a;rport
Via: SIP/2.0/TLS 172.30.16.17:7001;egress-
zone=TraversalZone;branch=z9hG4bKb828ee50d723aed0c96a71e3d4ee887b1588.57007
d902258db5356f90f11d5861c8e;proxy-call-id=5020894c-3207-11e3-add6-
010f3207bb4;received=172.30.16.17;rport=7001;ingress-zone=TraversalZone

Digit Analysis shows the following
08212591.001 |19:54:34.364 |AppInfo |Digit Analysis: star_DaReq:
daReq.partitionSearchSpace(1e41dc4d-c7bc-6489-4350-d60d6d0de577),
filteredPartitionSearchSpaceString(DirectoryURI:P_SYSTEM_TELEPRESENCE:DirectoryURI),
partitionSearchSpaceString(DirectoryURI:P_SYSTEM_TELEPRESENCE:DirectoryURI)
08212591.002 |19:54:34.364 |AppInfo |DigitAnalysis: Host Address=vcs.abc.org DOES NOT
MATCH any active CUCM node in this cluster.
08212591.003 |19:54:34.364 |AppInfo |DigitAnalysis: Host Address=vcs.abc.org DOES NOT
MATCH top level org domain.
08212591.004 |19:54:34.364 |AppInfo |DigitAnalysis: star_DaReq:Matching SIP URL, Host
Domain, host=abc.fcc.acv

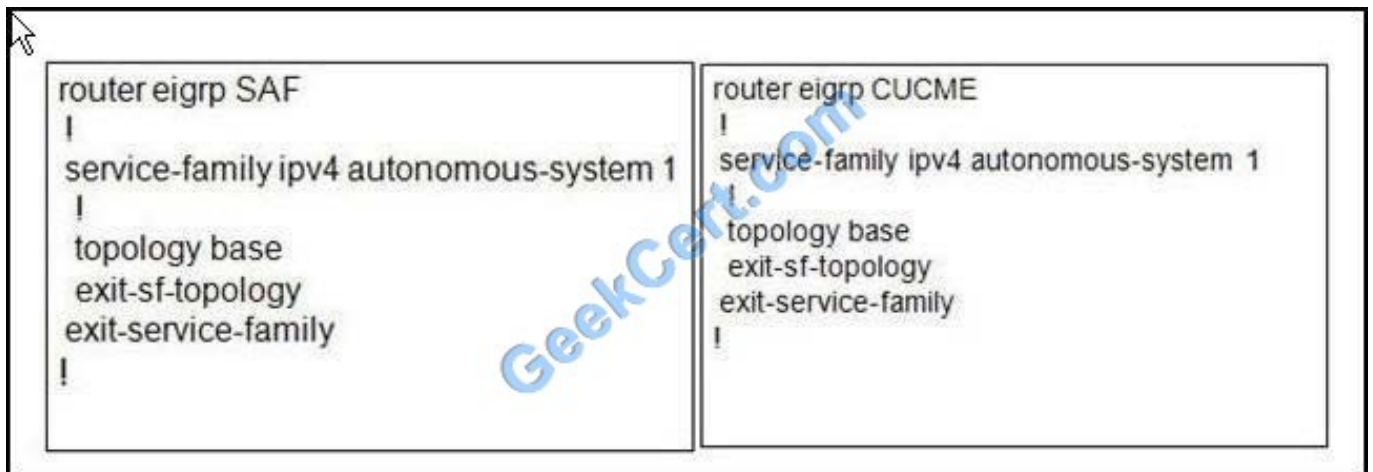
CUCMsends a SIP 404 not found
08212597.001 |19:54:34.365 |AppInfo |SIPtcp- wait_SdlSPISignal: Outgoing SIP TCP
message to 10.64.126.18 on port 25091 index 791 [3385500,NET]
SIP/2.0 404 Not Found
Via: SIP/2.0/TCP 10.64.126.18:5060;egress-
zone=CUCM;branch=z9hG4bK882fc47c9eeb20b5f03861032a512c4f86476.33073954ac66c862ebd093db
c29621d6;proxy-call=503a0192-3207-11e3-8a26-
```

- A. Add xyz.com in the Organization Top Level Domain field on Cisco Unified Communications Manager.
- B. Set the Incoming Transport Type to TLS on the SIP trunk security profile that is assigned to the SIP trunk.
- C. Check whether the calling search space for incoming calls on the SIP trunk has access to the partition of the Cisco IP phone that is being called.
- D. Add vcs.abc.org in the Organization Top Level Domain field on Cisco Unified Communications Manager.

Correct Answer: C

QUESTION 15

Refer to the exhibit. Assuming that the two Cisco SAF Forwarders are adjacent to each other and that no SAF clients have been configured, which statement is true?



- A. The Cisco SAF Forwarders will not establish a neighbor relationship because the service-family external-client configuration is missing.
- B. The Cisco SAF Forwarders will not establish a neighbor relationship because the eigrp label CUCME should be replaced with SAF.
- C. The Cisco SAF Forwarders will not establish a neighbor relationship because the service-family external-client configuration is missing as well as the static neighbor configurations.
- D. The Cisco SAF Forwarders will establish a neighbor relationship. No further configuration is required.
- E. Cisco SAF Forwarders will not establish a neighbor relationship until the SAF clients are configured and registered to the Cisco SAF Forwarders.

Correct Answer: D

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