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# EXAM - 642-427

**Troubleshooting Cisco Unified Communications (TVOICE v8.0)**

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## Question: 1

Where does an IP phone obtain the extension number and speed-dial settings from?

A. the settings that are configured on the physical phone
B. the registration file that the phone receives from the Cisco Unified Communications Manager
C. the device and line configuration in Cisco Unified Communications Manager, during the registration process
D. the default device profile that is configured in Cisco Unified Communications, Manager

**Answer: C**

Explanation:
When we configure IP phone profile in CUCM that time we also configure extension number and speed dial as per requirement.
When IP reachability gets establish between IP phone and CUCM then phone will download config file from CUCM during initial registration process.
Reference:
http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/3_1_2/ccmcfg/b06phone.html

## Question: 2

Which web-based application that is accessed via the Cisco Unified Communications Manager Administration GUI generates reports for troubleshooting or inspecting cluster data?

A. Cisco Unified Serviceability alarms
B. Cisco Unified RTMT Trace and Log Central
C. Cisco Unified RTMT Monitor
D. Cisco Unified Reporting tool

**Answer: D**

Explanation:
Reference:
http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/service/5_1_3/report/curptg.html

## Question: 3

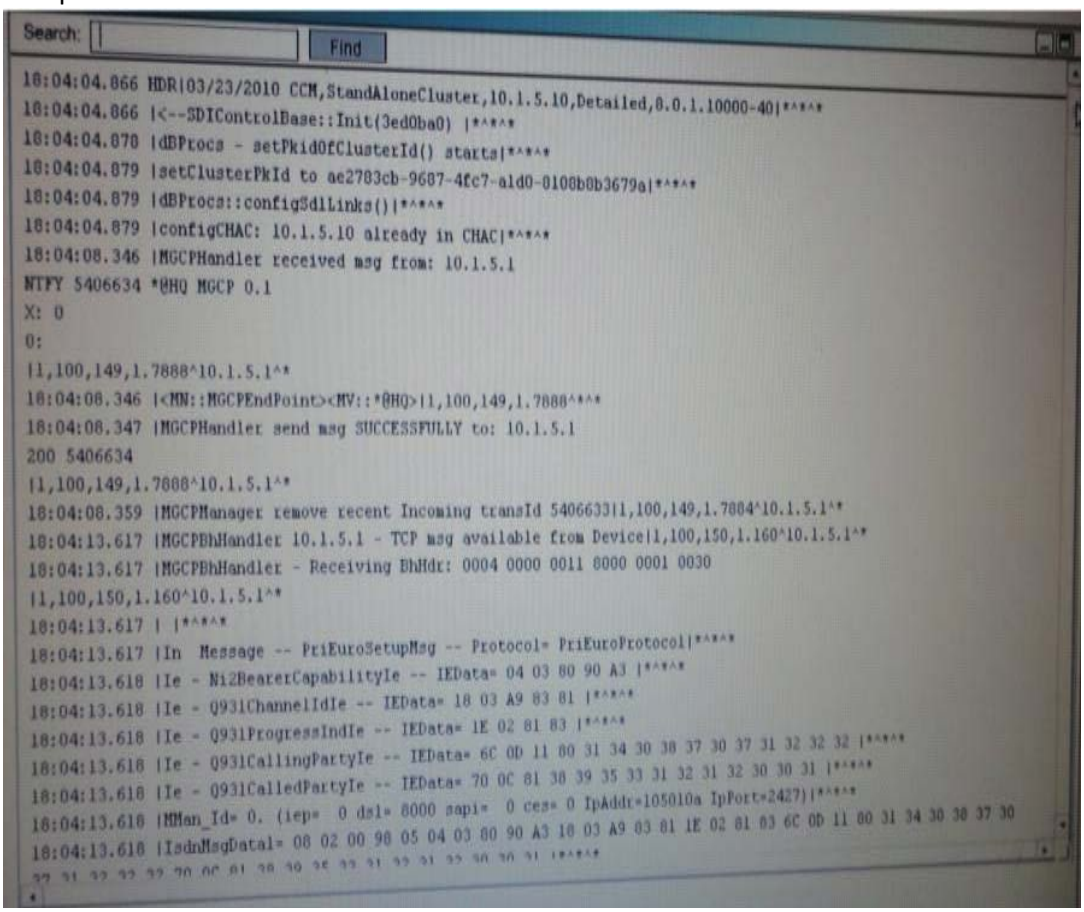
Which statement about device mobility is true?

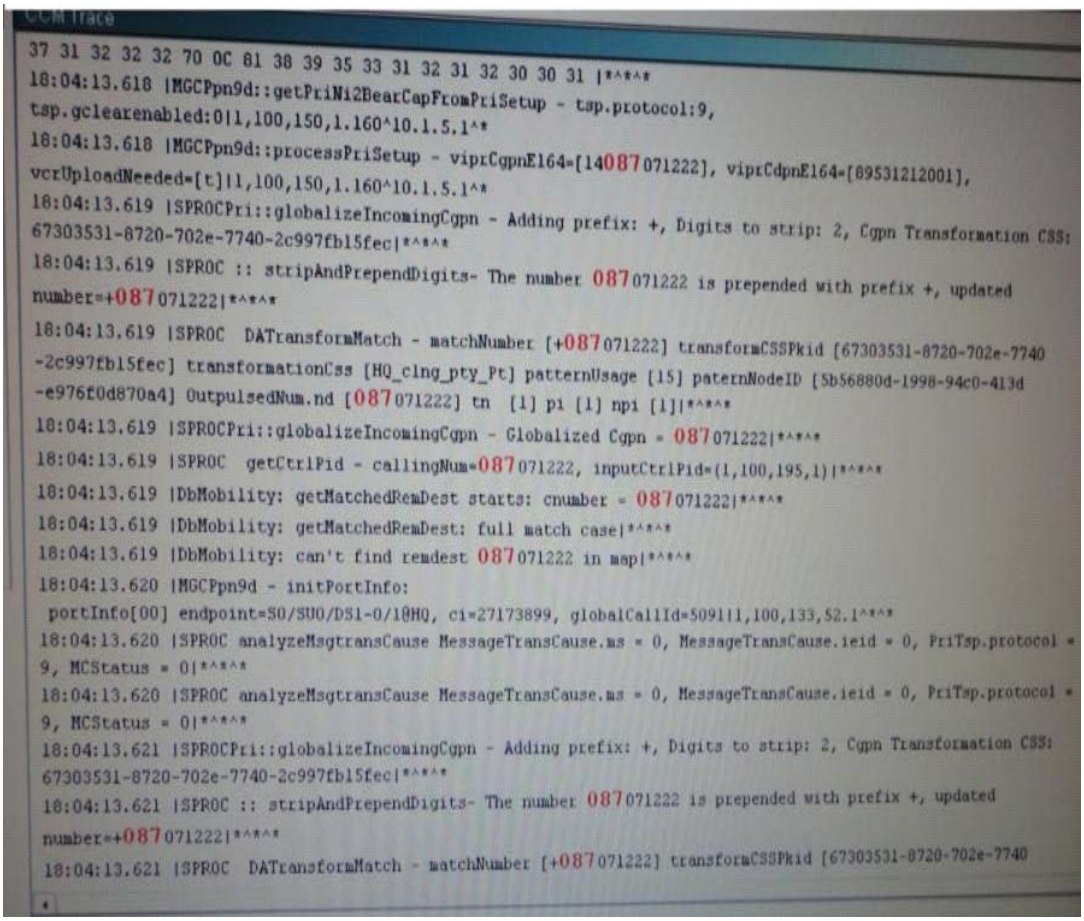
A. When local route groups are used, there is no need to configure device mobility groups or phone device CSSs as long as phone line CSSs are used.
B. When local route groups are used, you must configure device mobility groups and phone device CSSs.
C. When the device mobility group at the home device pool and roaming device pool are not the same, the Phone will keep the home region.
D. When device mobility groups at the home device pool and roaming device pool are the same, the phone will keep the home MRGL setting.

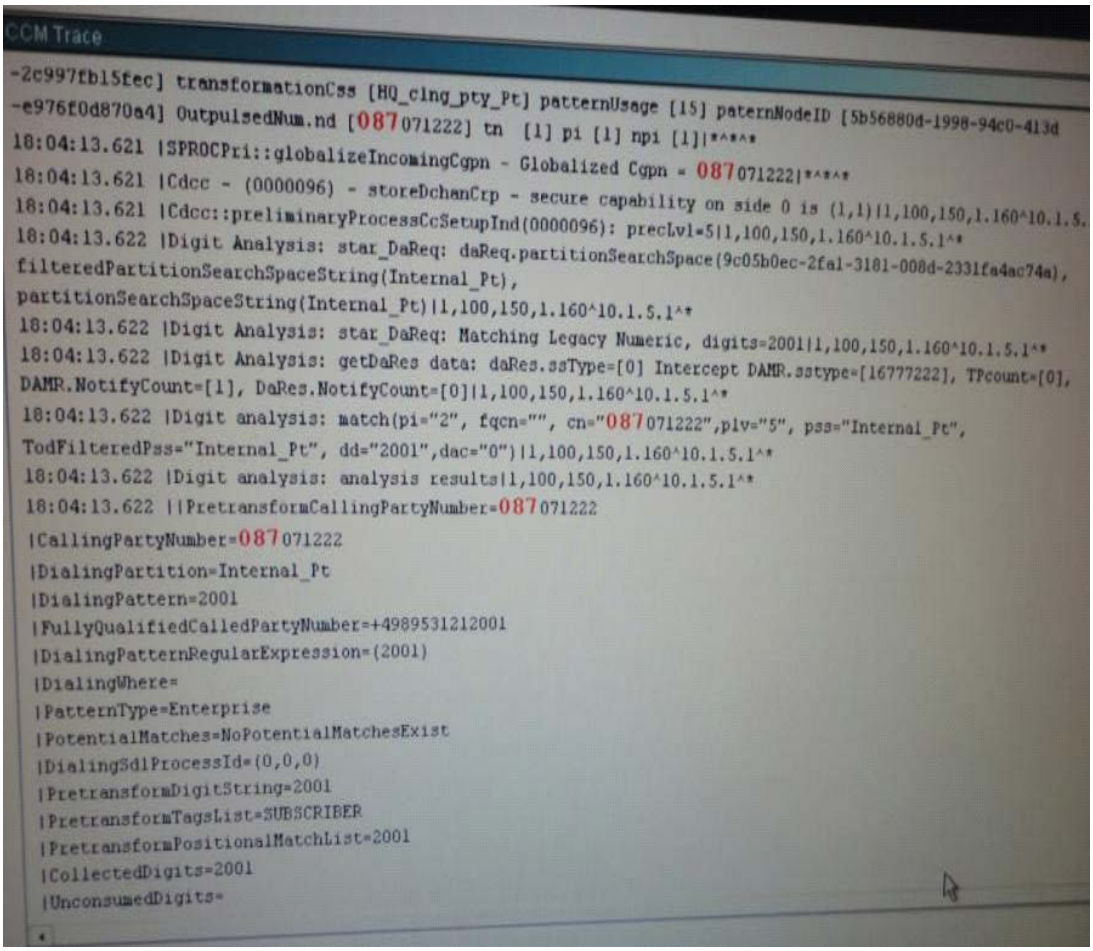
**Answer: A**

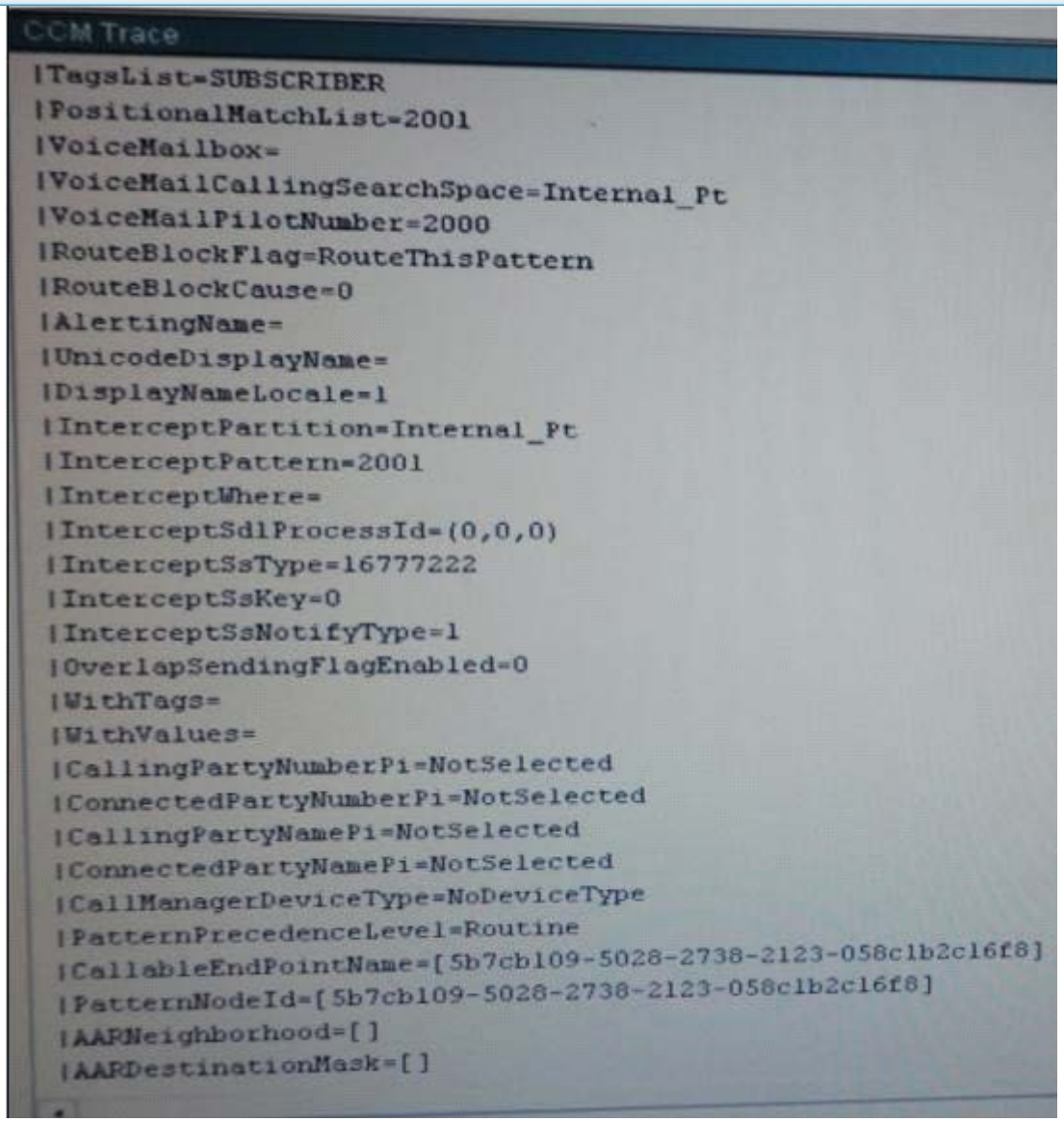
## Question: 4

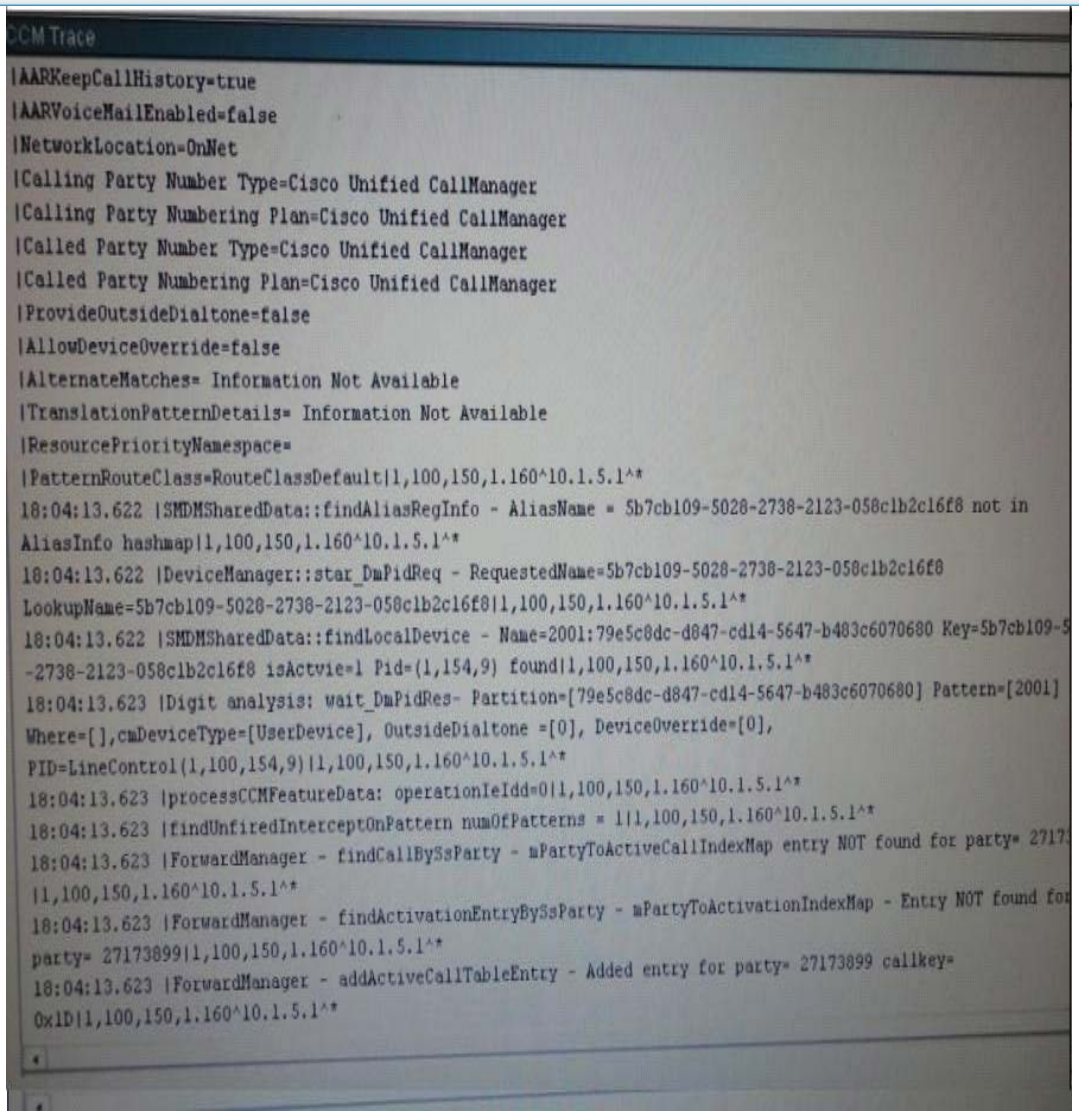
Refer to the SDI trace in the exhibit A PSTN call arrived at the MGCP gateway that is shown in the SDI trace. If the caller ID that is displayed on the IP phone is 087071 222 and the HQ_clng__pty_CSS contains the HQ_cing_pty_Pt partition, which exhibit shows the correct gateway digit manipulation"?




CCM Trace
37 31 32 32 32 70 0C 81 38 39 35 33 31 32 31 32 30 30 31 |*^*^*
18:04:13.618 |MGCPpn9d::getPriNi2BearCapFromPriSetup - tsp.protocol:9,
tsp.gclearenabled:0|1,100,150,1.160^10.1.5.1^*
18:04:13.618 |MGCPpn9d::processPriSetup - viprCgpnE164=[14087071222], viprCdpnE164=[095312120O1],
vcrUploadNeeded=[t]|1,100,150,1.160^10.1.5.1^*
18:04:13.619 |SPROCPri::globalizeIncomingCgpn - Adding prefix: +, Digits to strip: 2, Cgpn Transformation CSS:
67303531-8720-702e-7740-2c997fb15fec|*^*^*
18:04:13.619 |SPROC :: stripAndPrependDigits- The number 087071222 is prepended with prefix +, updated
number=+087071222|*^*^*
18:04:13.619 |SPROC DATransformMatch - matchNumber [+087071222] transformCSSPkid [67303531-8720-702e-7740
-2c997fb15fec] transformationCss [HQ_clng_pty_Pt] patternUsage [15] paternNodeID [5b56880d-1998-94c0-413d
-e976f0d870a4] OutpulsedNum.nd [087071222] tn [1] pi [1] npi [1]|*^*^*
18:04:13.619 |SPROCPri::globalizeIncomingCgpn - Globalized Cgpn = 087071222|*^*^*
18:04:13.619 |SPROC getCtrlPid - callingNum=087071222, inputCtrlPid=(1,100,195,1)|*^*^*
18:04:13.619 |DbMobility: getMatchedRemDest starts: cnumber = 087071222|*^*^*
18:04:13.619 |DbMobility: getMatchedRemDest: full match case|*^*^*
18:04:13.619 |DbMobility: can't find remdest 087071222 in map|*^*^*
18:04:13.620 |MGCPpn9d - initPortInfo:
portInfo[00] endpoint=S0/SU0/DS1-0/1@HQ, ci=27173899, globalCallId=509111,100,133,52.1^*^*
18:04:13.620 |SPROC analyzeMsgtransCause MessageTransCause.ms = 0, MessageTransCause.ieid = 0, PriTsp.protocol =
9, MCStatus = 0|*^*^*
18:04:13.620 |SPROC analyzeMsgtransCause MessageTransCause.ms = 0, MessageTransCause.ieid = 0, PriTsp.protocol =
9, MCStatus = 0|*^*^*
18:04:13.621 |SPROCPri::globalizeIncomingCgpn - Adding prefix: +, Digits to strip: 2, Cgpn Transformation CSS:
67303531-8720-702e-7740-2c997fb15fec|*^*^*
18:04:13.621 |SPROC :: stripAndPrependDigits- The number 087071222 is prepended with prefix +, updated
number=+087071222|*^*^*
18:04:13.621 |SPROC DATransformMatch - matchNumber [+087071222] transformCSSPkid [67303531-8720-702e-7740

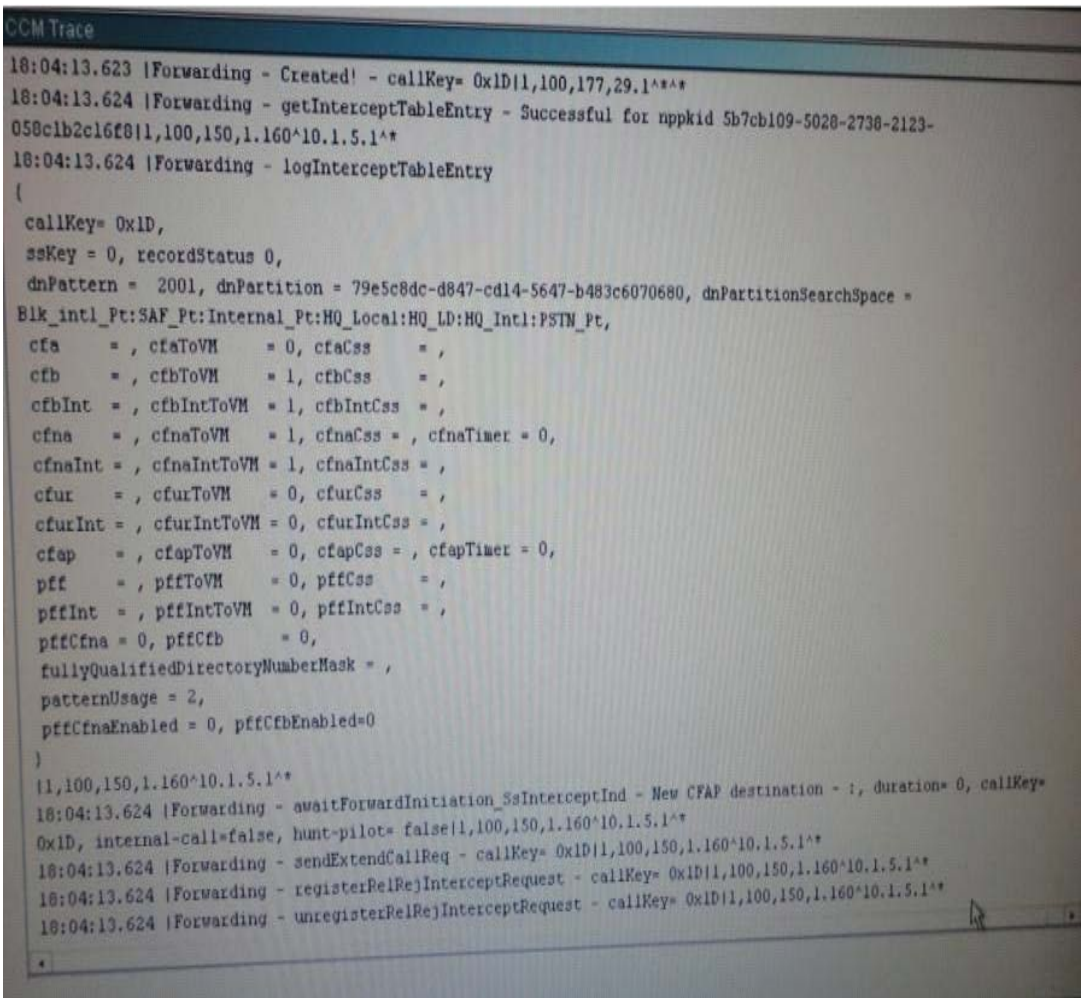

CCM Trace
-2c997fb15fec] transformationCss [HQ_cing_pty_Pt] patternUsage [15] paternNodeID [5b56880d-1998-94c0-413d
-e976f0d870a4] OutpulsedNum.nd [087071222] tn [1] pi [1] npi [1]|*^*^*
18:04:13.621 |SPROCPri::globalizeIncomingCgpn - Globalized Cgpn = 087071222|*^*^*
18:04:13.621 |Cdcc - (0000096) - storeDchanCrp - secure capability on side 0 is (1,1)|1,100,150,1.160^10.1.5.
18:04:13.621 |Cdcc::preliminaryProcessCcSetupInd(0000096): precLvl=5|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |Digit Analysis: star_DaReq: daReq.partitionSearchSpace(9c05b0ec-2fa1-3181-008d-2331fa4ac74a),
filteredPartitionSearchSpaceString(Internal_Pt),
partitionSearchSpaceString(Internal_Pt)|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |Digit Analysis: star_DaReq: Matching Legacy Numeric, digits=2001|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |Digit Analysis: getDaRes data: daRes.ssType=[0] Intercept DAMR.sstype=[16777222], TPcount=[0],
DAMR.NotifyCount=[1], DaRes.NotifyCount=[0]|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |Digit analysis: match(pi="2", fqcn="", cn="087071222",plv="5", pss="Internal_Pt",
TodFilteredPss="Internal_Pt", dd="2001",dac="0")|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |Digit analysis: analysis results|1,100,150,1.160^10.1.5.1^*
18:04:13.622 ||PretransformCallingPartyNumber=087071222
|CallingPartyNumber=087071222
|DialingPartition=Internal_Pt
|DialingPattern=2001
|FullyQualifiedCalledPartyNumber=+4989531212001
|DialingPatternRegularExpression=(2001)
|DialingWhere=
|PatternType=Enterprise
|PotentialMatches=NoPotentialMatchesExist
|DialingSdlProcessId=(0,0,0)
|PretransformDigitString=2001
|PretransformTagsList=SUBSCRIBER
|PretransformPositionalMatchList=2001
|CollectedDigits=2001
|UnconsumedDigits=

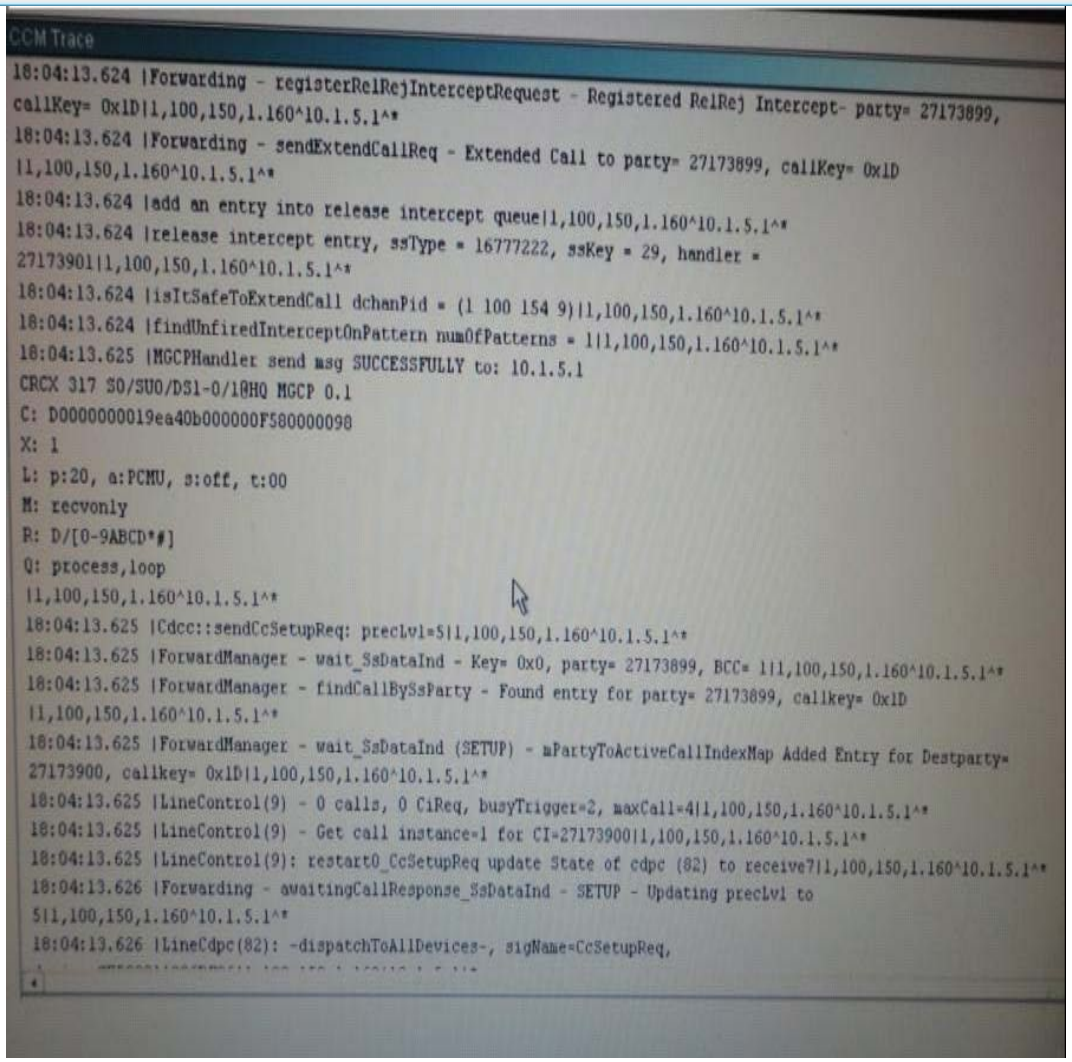

CCM Trace
|TagsList=SUBSCRIBER
|PositionalMatchList=2001
|VoiceMailbox=
|VoiceMailCallingSearchSpace=Internal_Pt
|VoiceMailPilotNumber=2000
|RouteBlockFlag=RouteThisPattern
|RouteBlockCause=0
|AlertingName=
|UnicodeDisplayName=
|DisplayNameLocale=1
|InterceptPartition=Internal_Pt
|InterceptPattern=2001
|InterceptWhere=
|InterceptSdlProcessId=(0,0,0)
|InterceptSsType=16777222
|InterceptSsKey=0
|InterceptSsNotifyType=1
|OverlapSendingFlagEnabled=0
|WithTags=
|WithValues=
|CallingPartyNumberPi=NotSelected
|ConnectedPartyNumberPi=NotSelected
|CallingPartyNamePi=NotSelected
|ConnectedPartyNamePi=NotSelected
|CallManagerDeviceType=NoDeviceType
|PatternPrecedenceLevel=Routine
|CallableEndPointName=[5b7cb109-5028-2738-2123-058c1b2c16f8]
|PatternNodeId=[5b7cb109-5028-2738-2123-058c1b2c16f8]
|AARNeighborhood=[]
|AARDestinationMask=[]

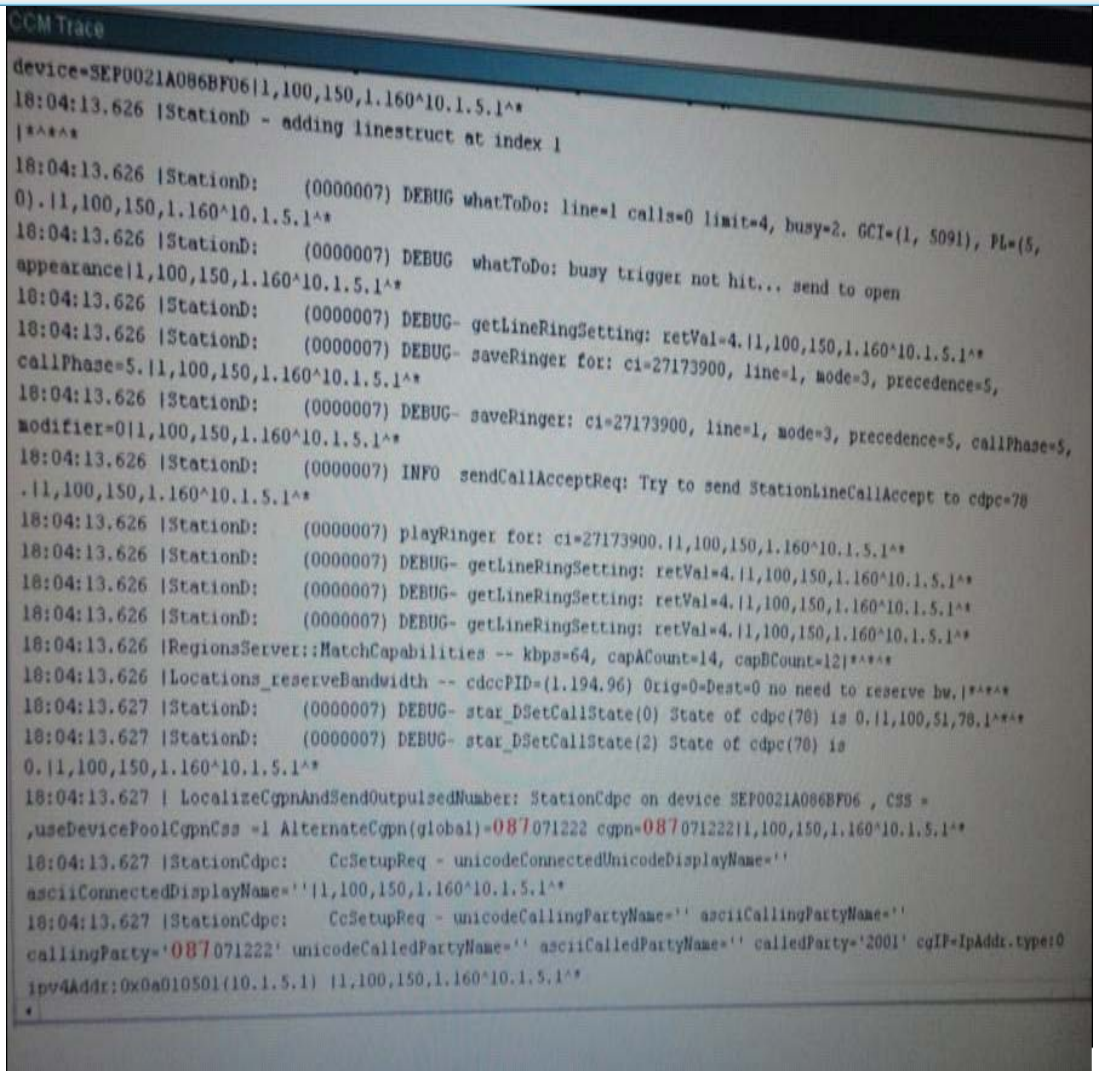


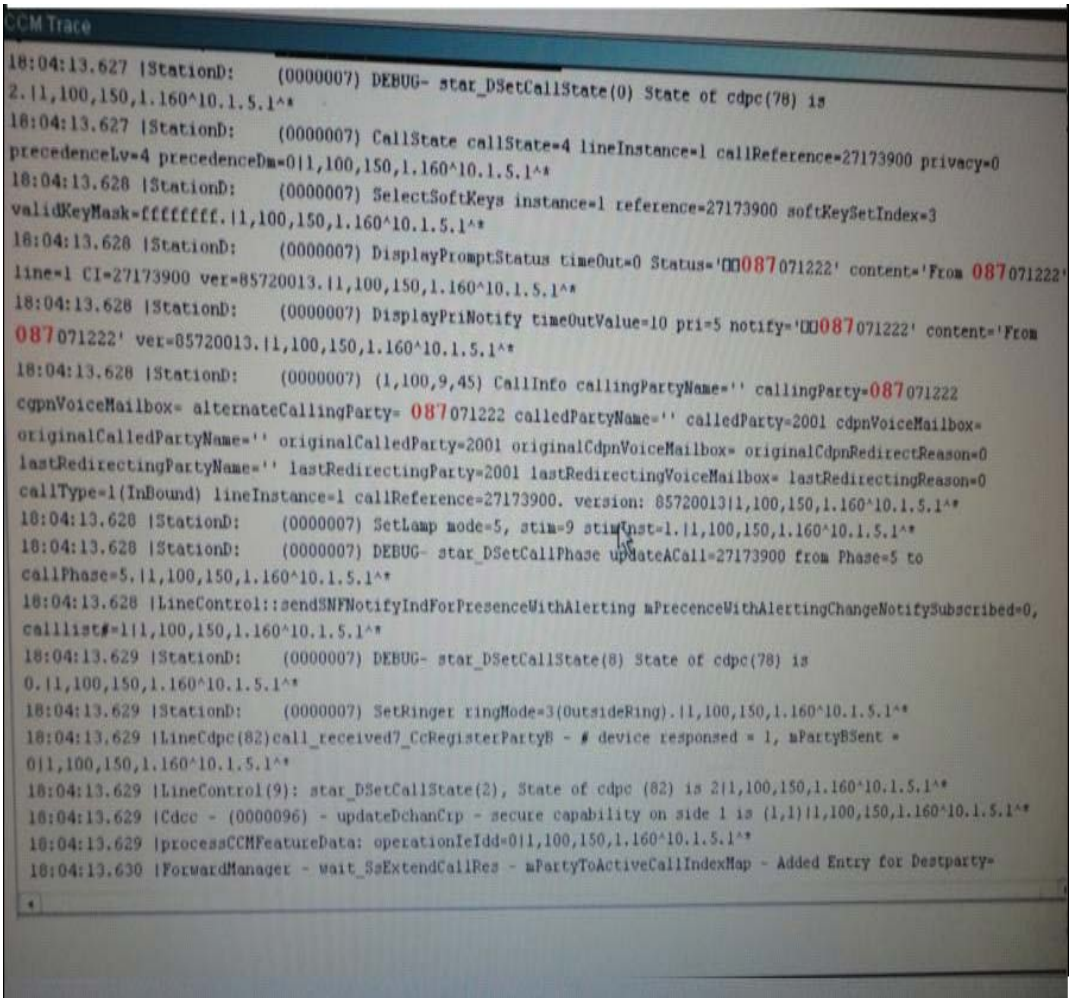
CCM Trace

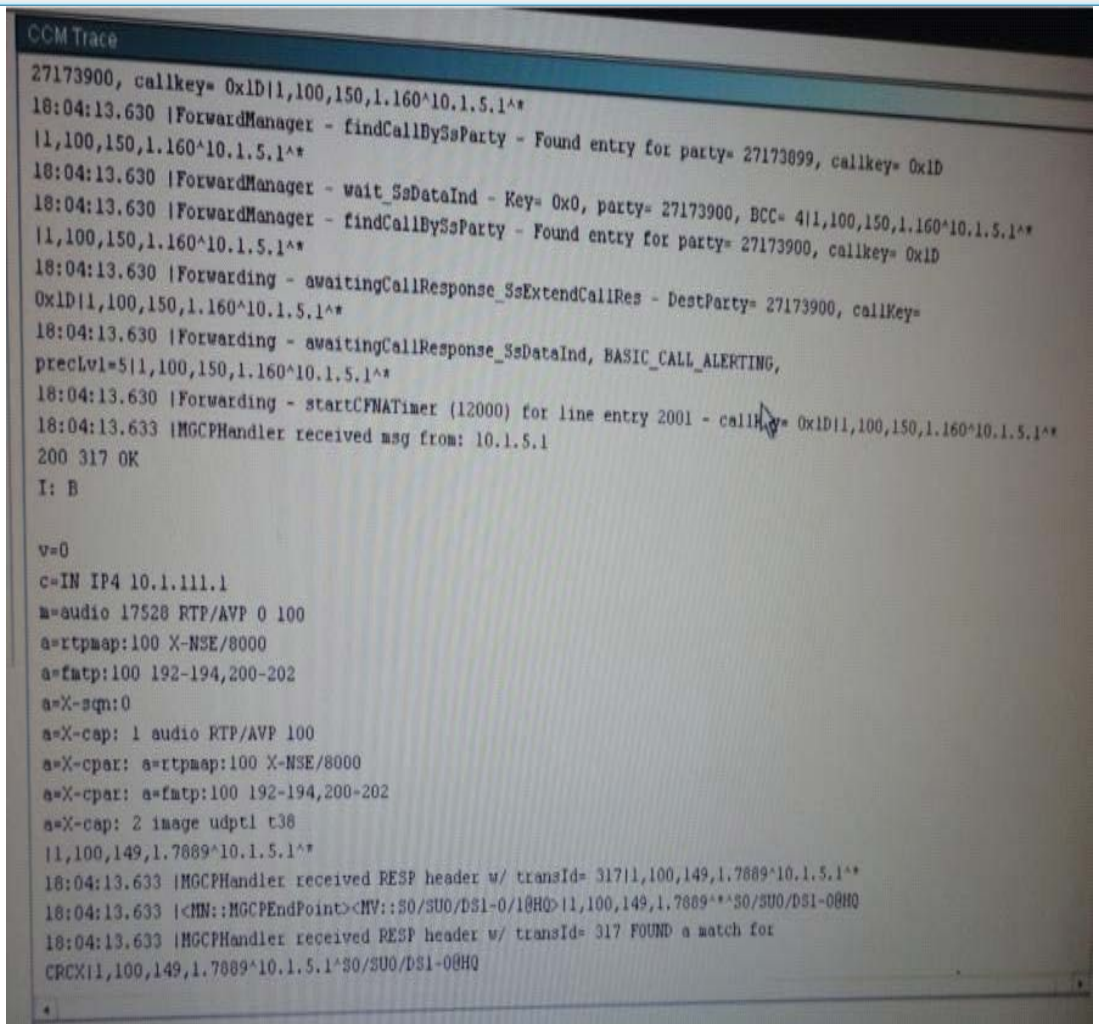
|AARKeepCallHistory=true
|AARVoiceMailEnabled=false
|NetworkLocation=OnNet
|Calling Party Number Type=Cisco Unified CallManager
|Calling Party Numbering Plan=Cisco Unified CallManager
|Called Party Number Type=Cisco Unified CallManager
|Called Party Numbering Plan=Cisco Unified CallManager
|ProvideOutsideDialtone=false
|AllowDeviceOverride=false
|AlternateMatches= Information Not Available
|TranslationPatternDetails= Information Not Available
|ResourcePriorityNamespace=
|PatternRouteClass=RouteClassDefault|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |SMDMSharedData::findAliasRegInfo - AliasName = 5b7cb109-5028-2738-2123-058c1b2c16f8 not in
AliasInfo hashmap|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |DeviceManager::star_DmPidReq - RequestedName=5b7cb109-5028-2738-2123-058c1b2c16f8
LookupName=5b7cb109-5028-2738-2123-058c1b2c16f8|1,100,150,1.160^10.1.5.1^*
18:04:13.622 |SMDMSharedData::findLocalDevice - Name=2001:79e5c8dc-d847-cd14-5647-b483c6070680 Key=5b7cb109-5
-2738-2123-058c1b2c16f8 isActvie=1 Pid=(1,154,9) found|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |Digit analysis: wait_DmPidRes- Partition=[79e5c8dc-d847-cd14-5647-b483c6070680] Pattern=[2001]
Where=[],cmDeviceType=[UserDevice], OutsideDialtone =[0], DeviceOverride=[0],
PID=LineControl(1,100,154,9)|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |processCCMFeatureData: operationIeIdd=0|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |findUnfiredInterceptOnPattern numOfPatterns = 1|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |ForwardManager - findCallBySsParty - mPartyToActiveCallIndexMap entry NOT found for party= 2717
|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |ForwardManager - findActivationEntryBySsParty - mPartyToActivationIndexMap - Entry NOT found for
party= 27173899|1,100,150,1.160^10.1.5.1^*
18:04:13.623 |ForwardManager - addActiveCallTableEntry - Added entry for party= 27173899 callkey=
0x1D|1,100,150,1.160^10.1.5.1^*

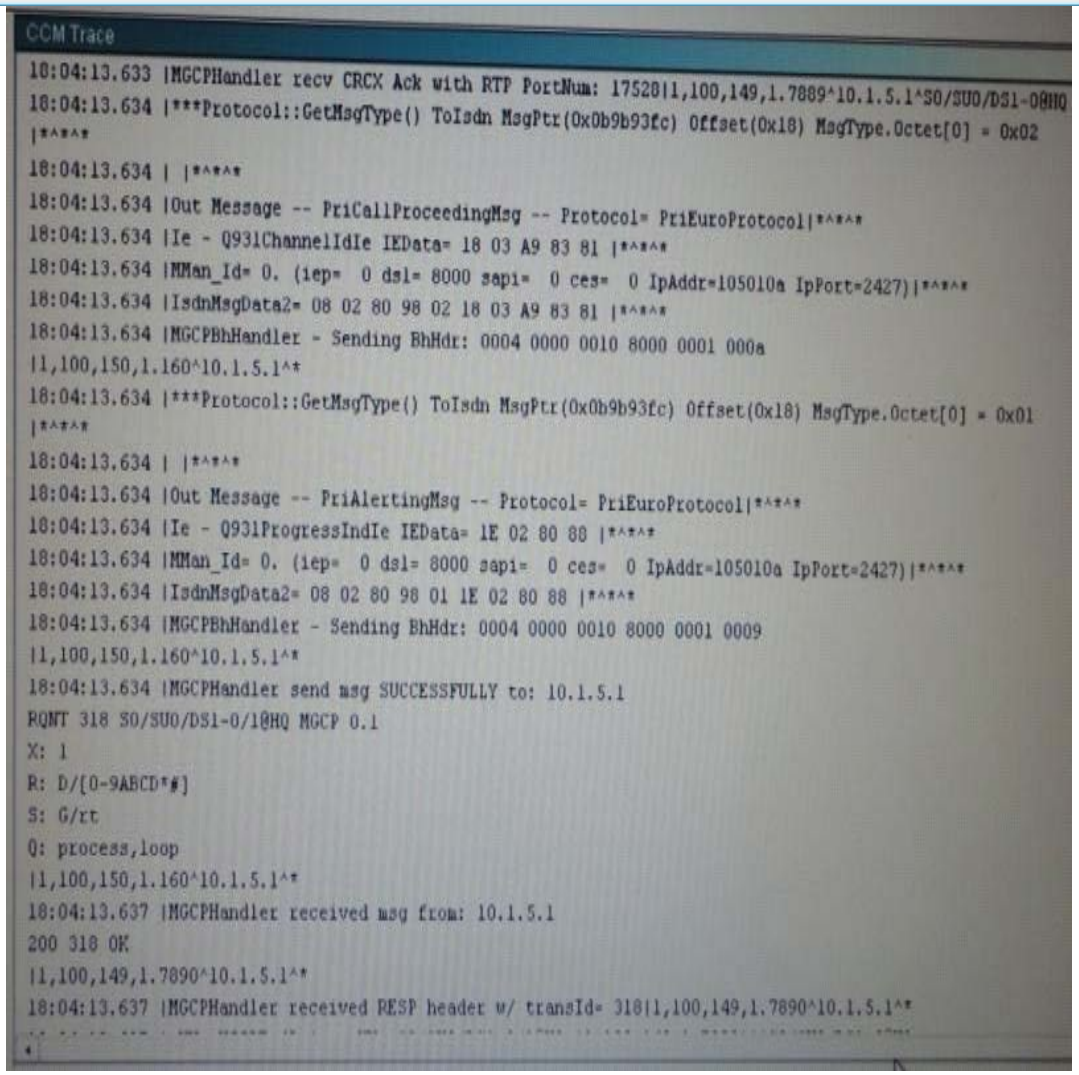

CCM Trace
18:04:13.623 |Forwarding - Created! - callKey= 0x1D|1,100,177,29.1^*^*
18:04:13.624 |Forwarding - getInterceptTableEntry - Successful for nppkid 5b7cb109-5028-2738-2123-
058c1b2c16f8|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - logInterceptTableEntry
{
callKey= 0x1D,
ssKey = 0, recordStatus 0,
dnPattern = 2001, dnPartition = 79e5c8dc-d847-cd14-5647-b483c6070680, dnPartitionSearchSpace =
Blk_intl_Pt:SAF_Pt:Internal_Pt:HQ_Local:HQ_LD:HQ_Intl:PSTN_Pt,
cfa = , cfaToVM = 0, cfaCss = ,
cfb = , cfbToVM = 1, cfbCss = ,
cfbInt = , cfbIntToVM = 1, cfbIntCss = ,
cfna = , cfnaToVM = 1, cfnaCss = , cfnaTimer = 0,
cfnaInt = , cfnaIntToVM = 1, cfnaIntCss = ,
cfur = , cfurToVM = 0, cfurCss = ,
cfurInt = , cfurIntToVM = 0, cfurIntCss = ,
cfap = , cfapToVM = 0, cfapCss = , cfapTimer = 0,
pff = , pffToVM = 0, pffCss = ,
pffInt = , pffIntToVM = 0, pffIntCss = ,
pffCfna = 0, pffCfb = 0,
fullyQualifiedDirectoryNumberMask = ,
patternUsage = 2,
pffCfnaEnabled = 0, pffCfbEnabled=0
}
|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - awaitForwardInitiation_SsInterceptInd - New CFAP destination - :, duration= 0, callKey=
0x1D, internal-call=false, hunt-pilot= false|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - sendExtendCallReq - callKey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - registerRelRejInterceptRequest - callKey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - unregisterRelRejInterceptRequest - callKey= 0x1D|1,100,150,1.160^10.1.5.1^*


CCM Trace
18:04:13.624 |Forwarding - registerRelRejInterceptRequest - Registered RelRej Intercept- party= 27173899, callKey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |Forwarding - sendExtendCallReq - Extended Call to party= 27173899, callKey= 0x1D |1,100,150,1.160^10.1.5.1^*
18:04:13.624 |add an entry into release intercept queue|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |release intercept entry, ssType = 16777222, ssKey = 29, handler = 27173901|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |isItSafeToExtendCall dchanPid = (1 100 154 9)|1,100,150,1.160^10.1.5.1^*
18:04:13.624 |findUnfiredInterceptOnPattern numOfPatterns = 1|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |MGCPHandler send msg SUCCESSFULLY to: 10.1.5.1
CRCX 317 S0/SU0/DS1-0/1@HQ MGCP 0.1
C: D0000000019ea40b000000F580000098
X: 1
L: p:20, a:PCMU, s:off, t:00
M: recvonly
R: D/[0-9ABCD*#]
Q: process,loop
|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |Cdcc::sendCcSetupReq: precLvl=5|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |ForwardManager - wait_SsDataInd - Key= 0x0, party= 27173899, BCC= 1|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |ForwardManager - findCallBySsParty - Found entry for party= 27173899, callkey= 0x1D |1,100,150,1.160^10.1.5.1^*
18:04:13.625 |ForwardManager - wait_SsDataInd (SETUP) - mPartyToActiveCallIndexMap Added Entry for Destparty= 27173900, callkey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |LineControl(9) - 0 calls, 0 CiReq, busyTrigger=2, maxCall=4|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |LineControl(9) - Get call instance=1 for CI=27173900|1,100,150,1.160^10.1.5.1^*
18:04:13.625 |LineControl(9): restart0_CcSetupReq update State of cdpc (82) to receive7|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |Forwarding - awaitingCallResponse_SsDataInd - SETUP - Updating precLvl to 5|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |LineCdpc(82): -dispatchToAllDevices-, sigName=CcSetupReq,


CCM Trace
device=SEP0021A086BF06|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD - adding linestruct at index 1
|*^*^*
18:04:13.626 |StationD: (0000007) DEBUG whatToDo: line=1 calls=0 limit=4, busy=2. GCI=(1, 5091), PL=(5,
0).|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG whatToDo: busy trigger not hit... send to open
appearance|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- saveRinger for: ci=27173900, line=1, mode=3, precedence=5,
callPhase=5.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- saveRinger: ci=27173900, line=1, mode=3, precedence=5, callPhase=5,
modifier=0|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) INFO sendCallAcceptReq: Try to send StationLineCallAccept to cdpc=78
.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) playRinger for: ci=27173900.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |StationD: (0000007) DEBUG- getLineRingSetting: retVal=4.|1,100,150,1.160^10.1.5.1^*
18:04:13.626 |RegionsServer::MatchCapabilities -- kbps=64, capACount=14, capBCount=12|*^*^*
18:04:13.626 |Locations_reserveBandwidth -- cdccPID=(1.194.96) Orig=0-Dest=0 no need to reserve bw.|*^*^*
18:04:13.627 |StationD: (0000007) DEBUG- star_DSetCallState(0) State of cdpc(78) is 0.|1,100,51,78.1^*^*
18:04:13.627 |StationD: (0000007) DEBUG- star_DSetCallState(2) State of cdpc(78) is
0.|1,100,150,1.160^10.1.5.1^*
18:04:13.627 | LocalizeCgpnAndSendOutpulsedNumber: StationCdpc on device SEP0021A086BF06 , CSS =
,useDevicePoolCgpnCss =1 AlternateCgpn(global)=0870712222 cgpn=0870712222|1,100,150,1.160^10.1.5.1^*
18:04:13.627 |StationCdpc: CcSetupReq - unicodeConnectedUnicodeDisplayName=''
asciiConnectedDisplayName=''|1,100,150,1.160^10.1.5.1^*
18:04:13.627 |StationCdpc: CcSetupReq - unicodeCallingPartyName='' asciiCallingPartyName=''
callingParty='0870712222' unicodeCalledPartyName='' asciiCalledPartyName='' calledParty='2001' cgIP=IpAddr.type:0
ipv4Addr:0x0a010501(10.1.5.1) |1,100,150,1.160^10.1.5.1^*

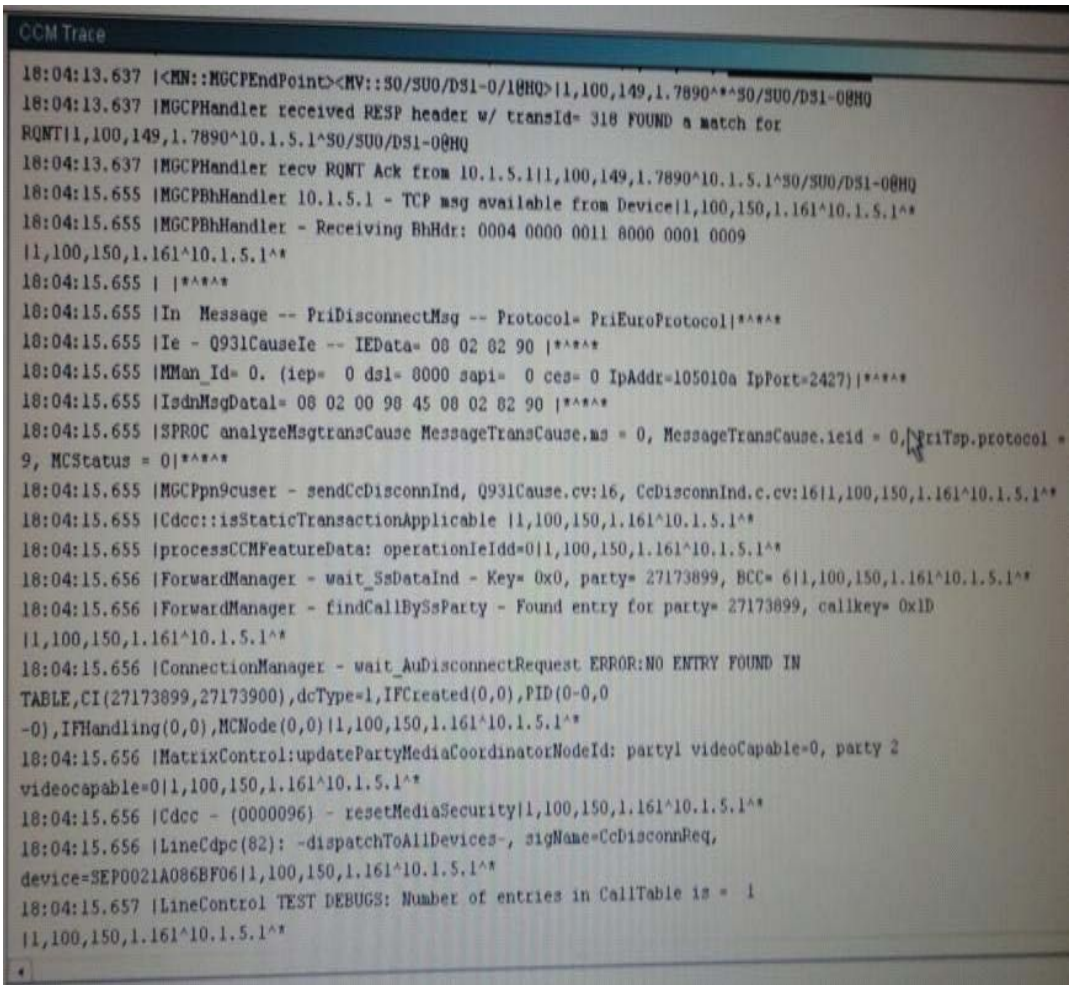

CCM Trace
18:04:13.627 |StationD: (0000007) DEBUG- star_DSetCallState(0) State of cdpc(78) is
2.|1,100,150,1.160^10.1.5.1^*
18:04:13.627 |StationD: (0000007) CallState callState=4 lineInstance=1 callReference=27173900 privacy=0
precedenceLv=4 precedenceDm=0|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) SelectSoftKeys instance=1 reference=27173900 softKeySetIndex=3
validKeyMask=ffffffff.|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) DisplayPromptStatus timeOut=0 Status='087071222' content='From 087071222'
line=1 CI=27173900 ver=85720013.|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) DisplayPriNotify timeOutValue=10 pri=5 notify='087071222' content='From
087071222' ver=85720013.|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) (1,100,9,45) CallInfo callingPartyName='' callingParty=087071222
cgpnVoiceMailbox= alternateCallingParty= 087071222 calledPartyName='' calledParty=2001 cdpnVoiceMailbox=
originalCalledPartyName='' originalCalledParty=2001 originalCdpnVoiceMailbox= originalCdpnRedirectReason=0
lastRedirectingPartyName='' lastRedirectingParty=2001 lastRedirectingVoiceMailbox= lastRedirectingReason=0
callType=1(InBound) lineInstance=1 callReference=27173900. version: 85720013|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) SetLamp mode=5, stim=9 stimInst=1.|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |StationD: (0000007) DEBUG- star_DSetCallPhase updateACall=27173900 from Phase=5 to
callPhase=5.|1,100,150,1.160^10.1.5.1^*
18:04:13.628 |LineControl::sendSNFNotifyIndForPresenceWithAlerting mPrecenceWithAlertingChangeNotifySubscribed=0,
callist#=1|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |StationD: (0000007) DEBUG- star_DSetCallState(8) State of cdpc(78) is
0.|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |StationD: (0000007) SetRinger ringMode=3(OutsideRing).|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |LineCdpc(82)call_received7_CcRegisterPartyB - # device responsed = 1, mPartyBSent =
0|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |LineControl(9): star_DSetCallState(2), State of cdpc (82) is 2|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |Cdcc - (0000096) - updateDchanCrp - secure capability on side 1 is (1,1)|1,100,150,1.160^10.1.5.1^*
18:04:13.629 |processCCMFeatureData: operationIeIdd=0|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |ForwardManager - wait_SsExtendCallRes - mPartyToActiveCallIndexMap - Added Entry for Destparty=

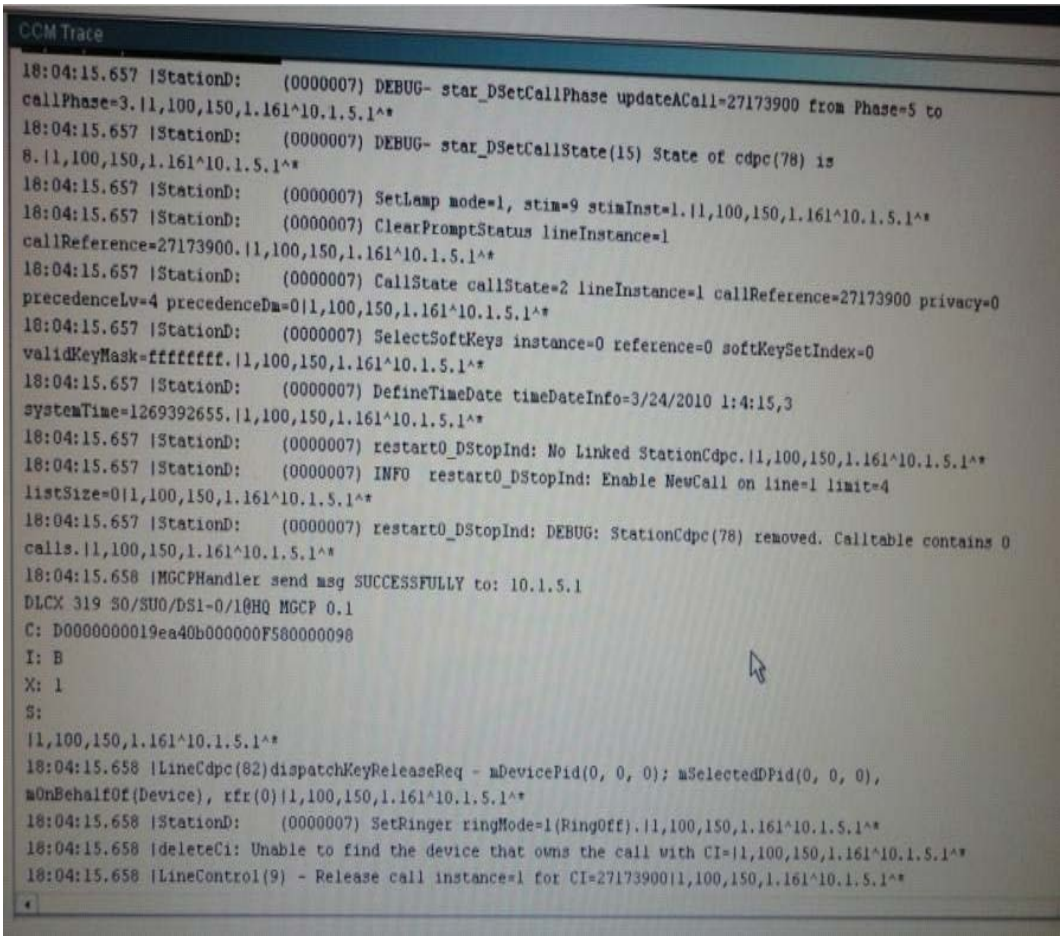

CCM Trace
27173900, callkey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |ForwardManager - findCallBySsParty - Found entry for party= 27173899, callkey= 0x1D
|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |ForwardManager - wait_SsDataInd - Key= 0x0, party= 27173900, BCC= 4|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |ForwardManager - findCallBySsParty - Found entry for party= 27173900, callkey= 0x1D
|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |Forwarding - awaitingCallResponse_SsExtendCallRes - DestParty= 27173900, callKey=
0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |Forwarding - awaitingCallResponse_SsDataInd, BASIC_CALL_ALERTING,
precLvl=5|1,100,150,1.160^10.1.5.1^*
18:04:13.630 |Forwarding - startCFNATimer (12000) for line entry 2001 - callKey= 0x1D|1,100,150,1.160^10.1.5.1^*
18:04:13.633 |MGCPHandler received msg from: 10.1.5.1
200 317 OK
I: B
v=0
c=IN IP4 10.1.111.1
m=audio 17528 RTP/AVP 0 100
a=rtpmap:100 X-NSE/8000
a=fmtp:100 192-194,200-202
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:100 192-194,200-202
a=X-cap: 2 image udptl t38
|1,100,149,1.7689^10.1.5.1^*
18:04:13.633 |MGCPHandler received RESP header w/ transId= 317|1,100,149,1.7689^10.1.5.1^*
18:04:13.633 |<MN::MGCPEndPoint><MV::S0/SU0/DS1-0/1@HQ>|1,100,149,1.7689^*^S0/SU0/DS1-0@HQ
18:04:13.633 |MGCPHandler received RESP header w/ transId= 317 FOUND a match for
CRCX|1,100,149,1.7689^10.1.5.1^S0/SU0/DS1-0@HQ

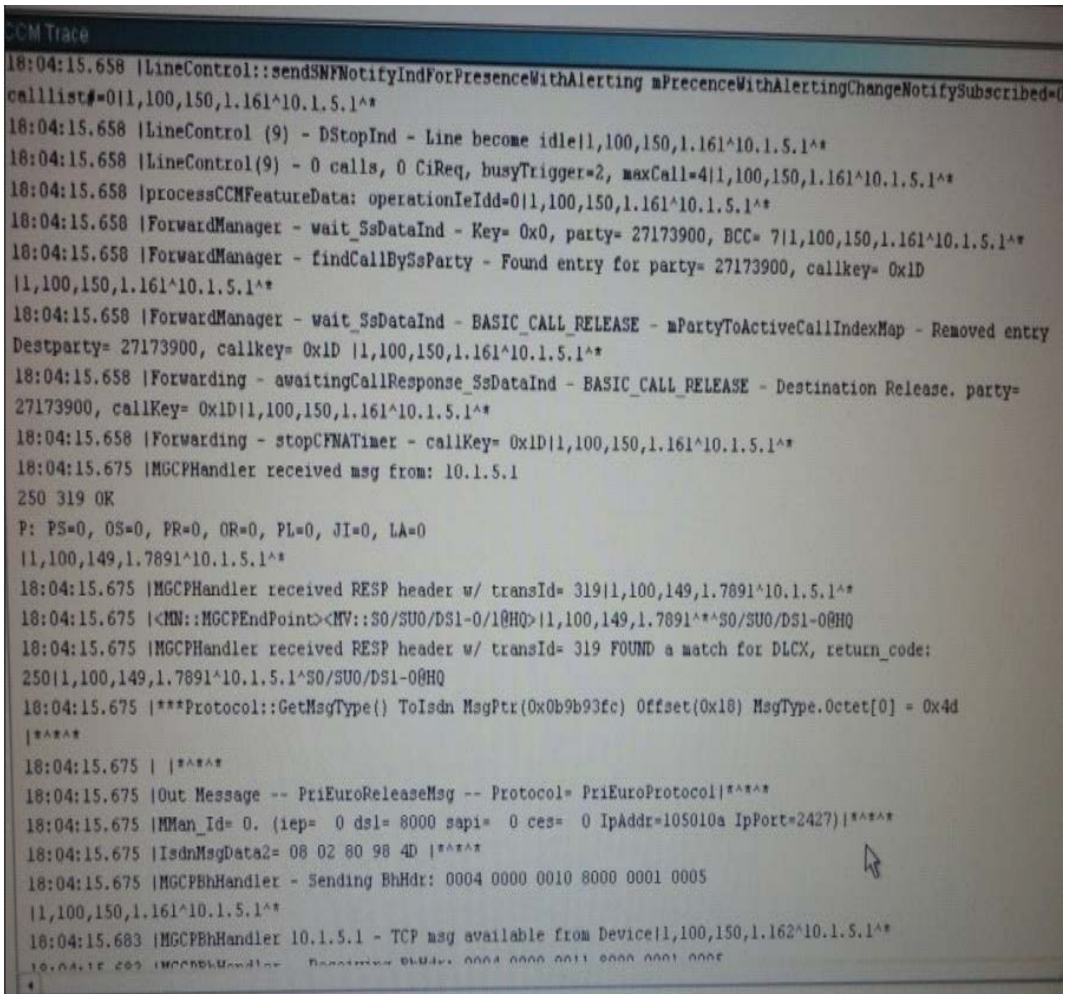


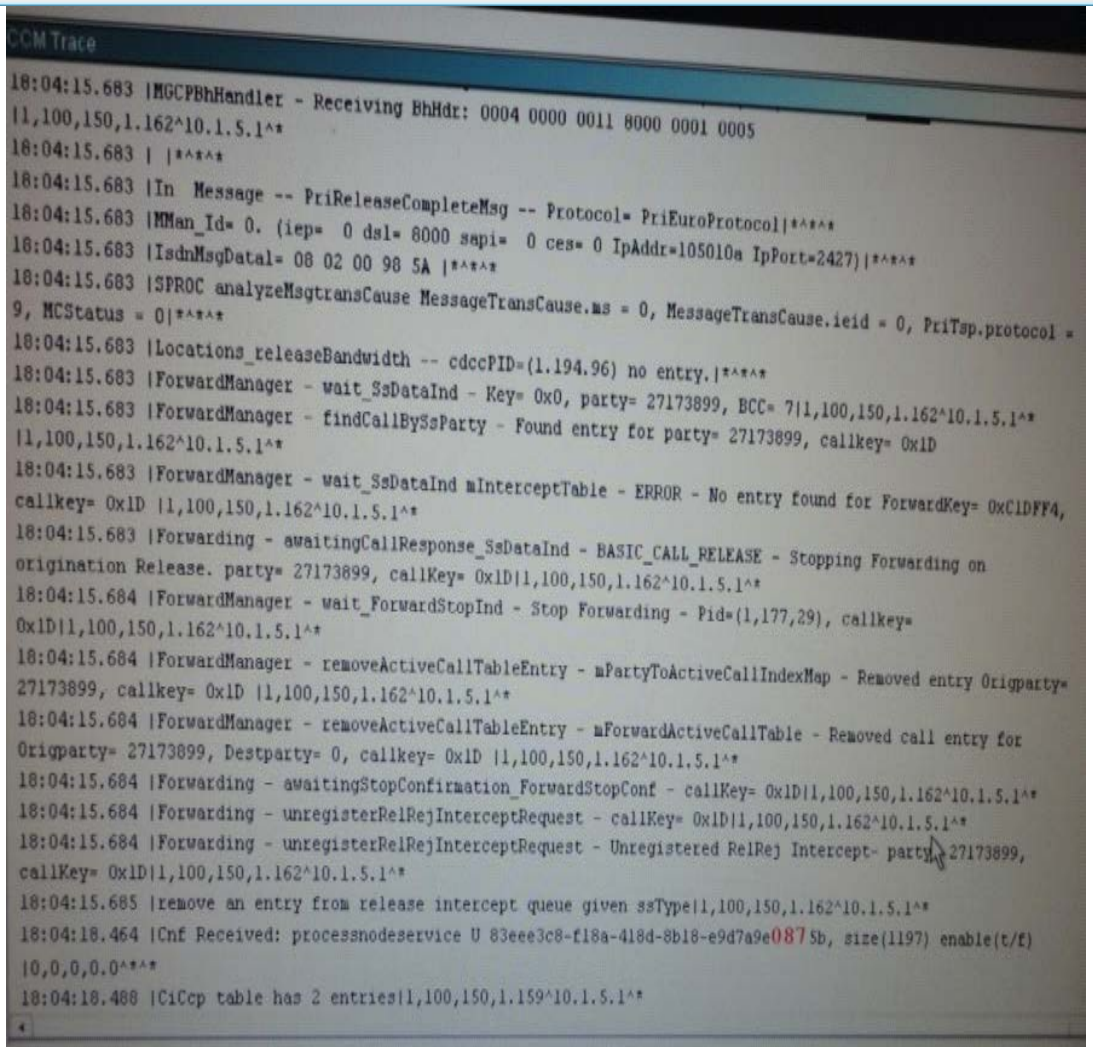
CCM Trace

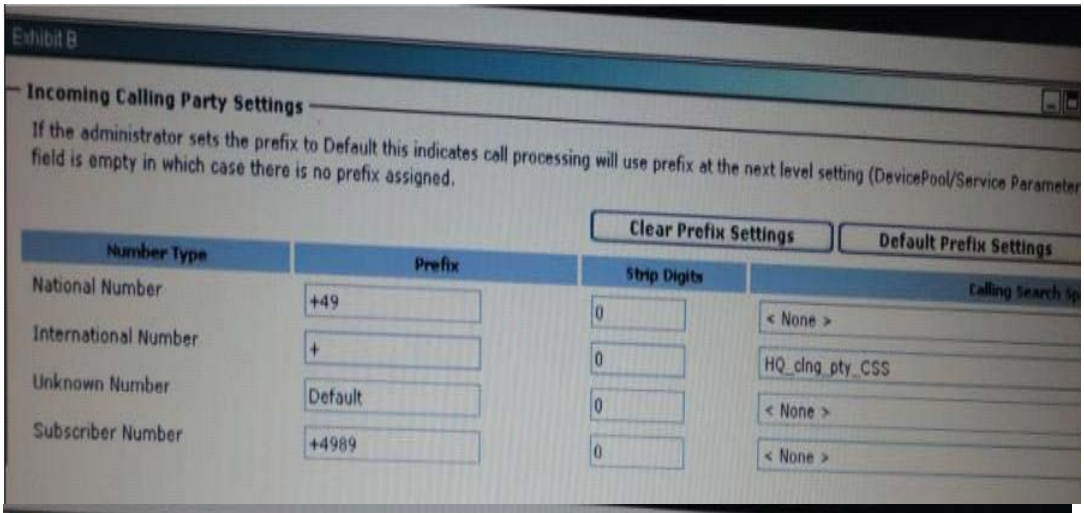
```
18:04:13.633 |MGCPHandler recv CRCX Ack with RTP PortNum: 17528|1,100,149,1.7889^10.1.5.1^S0/SU0/DS1-0@HQ
18:04:13.634 |***Protocol::GetMsgType() ToIsdn MsgPtr(0x0b9b93fc) Offset(0x18) MsgType.Octet[0] = 0x02
|*^*^*
18:04:13.634 | |*^*^*
18:04:13.634 |Out Message -- PriCallProceedingMsg -- Protocol= PriEuroProtocol|*^*^*
18:04:13.634 |Ie - Q931ChannelIdIe IEData= 18 03 A9 83 81 |*^*^*
18:04:13.634 |MMan_Id= 0. (iep=  0 dsl= 8000 sapi=  0 ces=  0 IpAddr=105010a IpPort=2427)|*^*^*
18:04:13.634 |IsdnMsgData2= 08 02 80 98 02 18 03 A9 83 81 |*^*^*
18:04:13.634 |MGCPBhHandler - Sending BhHdr: 0004 0000 0010 8000 0001 000a
|1,100,150,1.160^10.1.5.1^*
18:04:13.634 |***Protocol::GetMsgType() ToIsdn MsgPtr(0x0b9b93fc) Offset(0x18) MsgType.Octet[0] = 0x01
|*^*^*
18:04:13.634 | |*^*^*
18:04:13.634 |Out Message -- PriAlertingMsg -- Protocol= PriEuroProtocol|*^*^*
18:04:13.634 |Ie - Q931ProgressIndIe IEData= 1E 02 80 88 |*^*^*
18:04:13.634 |MMan_Id= 0. (iep=  0 dsl= 8000 sapi=  0 ces=  0 IpAddr=105010a IpPort=2427)|*^*^*
18:04:13.634 |IsdnMsgData2= 08 02 80 98 01 1E 02 80 88 |*^*^*
18:04:13.634 |MGCPBhHandler - Sending BhHdr: 0004 0000 0010 8000 0001 0009
|1,100,150,1.160^10.1.5.1^*
18:04:13.634 |MGCPHandler send msg SUCCESSFULLY to: 10.1.5.1
RQNT 318 S0/SU0/DS1-0/1@HQ MGCP 0.1
X: 1
R: D/[0-9ABCD*#]
S: G/rt
Q: process,loop
|1,100,150,1.160^10.1.5.1^*
18:04:13.637 |MGCPHandler received msg from: 10.1.5.1
200 318 OK
|1,100,149,1.7890^10.1.5.1^*
18:04:13.637 |MGCPHandler received RESP header w/ transId= 318|1,100,149,1.7890^10.1.5.1^*
```

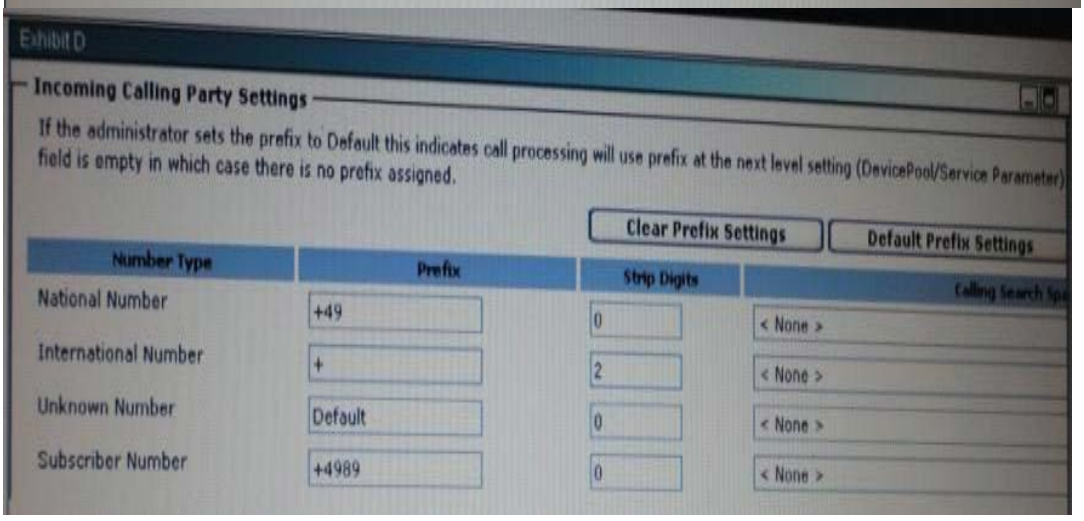

CCM Trace
18:04:13.637 |<MN::MGCPEndPoint><MV::S0/SU0/DS1-0/1@HQ>|1,100,149,1.7890^**^S0/SU0/DS1-0@HQ
18:04:13.637 |MGCPHandler received RESP header w/ transId= 318 FOUND a match for
RQNT|1,100,149,1.7890^10.1.5.1^S0/SU0/DS1-0@HQ
18:04:13.637 |MGCPHandler recv RQNT Ack from 10.1.5.1|1,100,149,1.7890^10.1.5.1^S0/SU0/DS1-0@HQ
18:04:15.655 |MGCPBhHandler 10.1.5.1 - TCP msg available from Device|1,100,150,1.161^10.1.5.1^*
18:04:15.655 |MGCPBhHandler - Receiving BhHdr: 0004 0000 0011 8000 0001 0009
|1,100,150,1.161^10.1.5.1^*
18:04:15.655 | |*^*^*
18:04:15.655 |In Message -- PriDisconnectMsg -- Protocol= PriEuroProtocol|*^*^*
18:04:15.655 |Ie - Q931CauseIe -- IEData= 00 02 82 90 |*^*^*
18:04:15.655 |MMan_Id= 0. (iep= 0 dsl= 0000 sapi= 0 ces= 0 IpAddr=105010a IpPort=2427)|*^*^*
18:04:15.655 |IsdnMsgData1= 08 02 00 98 45 08 02 82 90 |*^*^*
18:04:15.655 |SPROC analyzeMsgtransCause MessageTransCause.ms = 0, MessageTransCause.ieid = 0, PriTsp.protocol =
9, MCStatus = 0|*^*^*
18:04:15.655 |MGCPpn9cuser - sendCcDisconnInd, Q931Cause.cv:16, CcDisconnInd.c.cv:16|1,100,150,1.161^10.1.5.1^*
18:04:15.655 |Cdcc::isStaticTransactionApplicable |1,100,150,1.161^10.1.5.1^*
18:04:15.655 |processCCMFeatureData: operationIeIdd=0|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |ForwardManager - wait_SsDataInd - Key= 0x0, party= 27173899, BCC= 6|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |ForwardManager - findCallBySsParty - Found entry for party= 27173899, callkey= 0x1D
|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |ConnectionManager - wait_AuDisconnectRequest ERROR:NO ENTRY FOUND IN
TABLE,CI(27173899,27173900),dcType=1,IFCreated(0,0),PID(0-0,0
-0),IFHandling(0,0),MCNode(0,0)|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |MatrixControl:updatePartyMediaCoordinatorNodeId: party1 videoCapable=0, party 2
videocapable=0|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |Cdcc - (00000096) - resetMediaSecurity|1,100,150,1.161^10.1.5.1^*
18:04:15.656 |LineCdpc(82): -dispatchToAllDevices-, sigName=CcDisconnReq,
device=SEP0021A086BF06|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |LineControl TEST DEBUGS: Number of entries in CallTable is = 1
|1,100,150,1.161^10.1.5.1^*


CCM Trace
18:04:15.657 |StationD: (0000007) DEBUG- star_DSetCallPhase updateACall=27173900 from Phase=5 to
callPhase=3.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) DEBUG- star_DSetCallState(15) State of cdpc(78) is
8.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) SetLamp mode=1, stim=9 stimInst=1.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) ClearPromptStatus lineInstance=1
callReference=27173900.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) CallState callState=2 lineInstance=1 callReference=27173900 privacy=0
precedenceLv=4 precedenceDm=0|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) SelectSoftKeys instance=0 reference=0 softKeySetIndex=0
validKeyMask=ffffffff.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) DefineTimeDate timeDateInfo=3/24/2010 1:4:15,3
systemTime=1269392655.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) restart0_DStopInd: No Linked StationCdpc.|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) INFO restart0_DStopInd: Enable NewCall on line=1 limit=4
listSize=0|1,100,150,1.161^10.1.5.1^*
18:04:15.657 |StationD: (0000007) restart0_DStopInd: DEBUG: StationCdpc(78) removed. Calltable contains 0
calls.|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |MGCPHandler send msg SUCCESSFULLY to: 10.1.5.1
DLCX 319 S0/SU0/DS1-0/1@HQ MGCP 0.1
C: D0000000019ea40b000000F580000098
I: B
X: 1
S:
|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |LineCdpc(82)dispatchKeyReleaseReq - mDevicePid(0, 0, 0); mSelectedDPid(0, 0, 0),
mOnBehalfOf(Device), rfr(0)|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |StationD: (0000007) SetRinger ringMode=1(RingOff).|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |deleteCi: Unable to find the device that owns the call with CI=|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |LineControl(9) - Release call instance=1 for CI=27173900|1,100,150,1.161^10.1.5.1^*


CCM Trace
18:04:15.658 |LineControl::sendSNFNotifyIndForPresenceWithAlerting mPrecenceWithAlertingChangeNotifySubscribed=0
calllist#=0|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |LineControl (9) - DStopInd - Line become idle|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |LineControl(9) - 0 calls, 0 CiReq, busyTrigger=2, maxCall=4|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |processCCMFeatureData: operationIeIdd=0|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |ForwardManager - wait_SsDataInd - Key= 0x0, party= 27173900, BCC= 7|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |ForwardManager - findCallBySsParty - Found entry for party= 27173900, callkey= 0x1D
|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |ForwardManager - wait_SsDataInd - BASIC_CALL_RELEASE - mPartyToActiveCallIndexMap - Removed entry
Destparty= 27173900, callkey= 0x1D |1,100,150,1.161^10.1.5.1^*
18:04:15.658 |Forwarding - awaitingCallResponse_SsDataInd - BASIC_CALL_RELEASE - Destination Release. party=
27173900, callKey= 0x1D|1,100,150,1.161^10.1.5.1^*
18:04:15.658 |Forwarding - stopCFNATimer - callKey= 0x1D|1,100,150,1.161^10.1.5.1^*
18:04:15.675 |MGCPHandler received msg from: 10.1.5.1
250 319 OK
P: PS=0, OS=0, PR=0, OR=0, PL=0, JI=0, LA=0
|1,100,149,1.7891^10.1.5.1^*
18:04:15.675 |MGCPHandler received RESP header w/ transId= 319|1,100,149,1.7891^10.1.5.1^*
18:04:15.675 |<MN::MGCPEndPoint><MV::S0/SU0/DS1-0/1@HQ>|1,100,149,1.7891^*^S0/SU0/DS1-0@HQ
18:04:15.675 |MGCPHandler received RESP header w/ transId= 319 FOUND a match for DLCX, return_code:
250|1,100,149,1.7891^10.1.5.1^S0/SU0/DS1-0@HQ
18:04:15.675 |***Protocol::GetMsgType() ToIsdn MsgPtr(0x0b9b93fc) Offset(0x18) MsgType.Octet[0] = 0x4d
|*^*^*
18:04:15.675 | |*^*^*
18:04:15.675 |Out Message -- PriEuroReleaseMsg -- Protocol= PriEuroProtocol|*^*^*
18:04:15.675 |MMan_Id= 0. (iep= 0 dsl= 8000 sapi= 0 ces= 0 IpAddr=10S010a IpPort=2427)|*^*^*
18:04:15.675 |IsdnMsgData2= 08 02 80 98 4D |*^*^*
18:04:15.675 |MGCPBhHandler - Sending BhHdr: 0004 0000 0010 8000 0001 0005
|1,100,150,1.161^10.1.5.1^*
18:04:15.683 |MGCPBhHandler 10.1.5.1 - TCP msg available from Device|1,100,150,1.162^10.1.5.1^*


CCM Trace
18:04:15.683 |MGCPBhHandler - Receiving BhHdr: 0004 0000 0011 8000 0001 0005
|1,100,150,1.162^10.1.5.1^*
18:04:15.683 | |*^*^*
18:04:15.683 |In Message -- PriReleaseCompleteMsg -- Protocol= PriEuroProtocol|*^*^*
18:04:15.683 |MMan_Id= 0. (iep= 0 dsl= 8000 sapi= 0 ces= 0 IpAddr=105010a IpPort=2427)|*^*^*
18:04:15.683 |IsdnMsgData1= 08 02 00 98 5A |*^*^*
18:04:15.683 |SPROC analyzeMsgtransCause MessageTransCause.ms = 0, MessageTransCause.ieid = 0, PriTsp.protocol =
9, MCStatus = 0|*^*^*
18:04:15.683 |Locations_releaseBandwidth -- cdccPID=(1.194.96) no entry.|*^*^*
18:04:15.683 |ForwardManager - wait_SsDataInd - Key= 0x0, party= 27173899, BCC= 7|1,100,150,1.162^10.1.5.1^*
18:04:15.683 |ForwardManager - findCallBySsParty - Found entry for party= 27173899, callkey= 0x1D
|1,100,150,1.162^10.1.5.1^*
18:04:15.683 |ForwardManager - wait_SsDataInd mInterceptTable - ERROR - No entry found for ForwardKey= 0xC1DFF4,
callkey= 0x1D |1,100,150,1.162^10.1.5.1^*
18:04:15.683 |Forwarding - awaitingCallResponse_SsDataInd - BASIC_CALL_RELEASE - Stopping Forwarding on
origination Release. party= 27173899, callKey= 0x1D|1,100,150,1.162^10.1.5.1^*
18:04:15.684 |ForwardManager - wait_ForwardStopInd - Stop Forwarding - Pid=(1,177,29), callkey=
0x1D|1,100,150,1.162^10.1.5.1^*
18:04:15.684 |ForwardManager - removeActiveCallTableEntry - mPartyToActiveCallIndexMap - Removed entry Origparty=
27173899, callkey= 0x1D |1,100,150,1.162^10.1.5.1^*
18:04:15.684 |ForwardManager - removeActiveCallTableEntry - mForwardActiveCallTable - Removed call entry for
Origparty= 27173899, Destparty= 0, callkey= 0x1D |1,100,150,1.162^10.1.5.1^*
18:04:15.684 |Forwarding - awaitingStopConfirmation_ForwardStopConf - callKey= 0x1D|1,100,150,1.162^10.1.5.1^*
18:04:15.684 |Forwarding - unregisterRelRejInterceptRequest - callKey= 0x1D|1,100,150,1.162^10.1.5.1^*
18:04:15.684 |Forwarding - unregisterRelRejInterceptRequest - Unregistered RelRej Intercept- party= 27173899,
callKey= 0x1D|1,100,150,1.162^10.1.5.1^*
18:04:15.685 |remove an entry from release intercept queue given ssType|1,100,150,1.162^10.1.5.1^*
18:04:18.464 |Cnf Received: processnodeservice U 83eee3c8-f18a-418d-8b18-e9d7a9e087 5b, size(1197) enable(t/f)
|0,0,0,0.0^*^*
18:04:18.488 |CiCcp table has 2 entries|1,100,150,1.159^10.1.5.1^*




A. Exhibit A
B. Exhibit B
C. Exhibit C
D. Exhibit D

**Answer: D**

Explanation:
- Actual incoming number is 14-087071 222 but next to this information in trace we can see two digits are stripped which is international code hence D is valid answer.

## Question: 5

When a database replication issue is suspected, which three tools can be used to check the database replication status? (Choose three.)

A. Cisco Unified Communications Manager RTMT tool
B. Cisco Unified Communications Manager Serviceability interface
C. Cisco Unified Reporting
D. Cisco Unified Communications Manager CLI interface
E. Cisco IP Phone Device Stats from the Settings button
F. Cisco Unified OS Administration interface

**Answer: A, C, D**

Explanation:
Reference:
http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_tech_note09186a00809643e8.shtml

## Question: 6

Which of these reasons can cause intrasite calls within a Cisco Unified Communications Manager cluster to fail?

A. The route partition that is configured in the CCD requesting service is not listed in the calling phone CSS
B. The trunk CSS does not include the partition for the called directory number.
C. The MGCP gateway is not registered
D. The calling phone does not have the correct CSS configured
E. The calling phone does not have the correct partition configured.

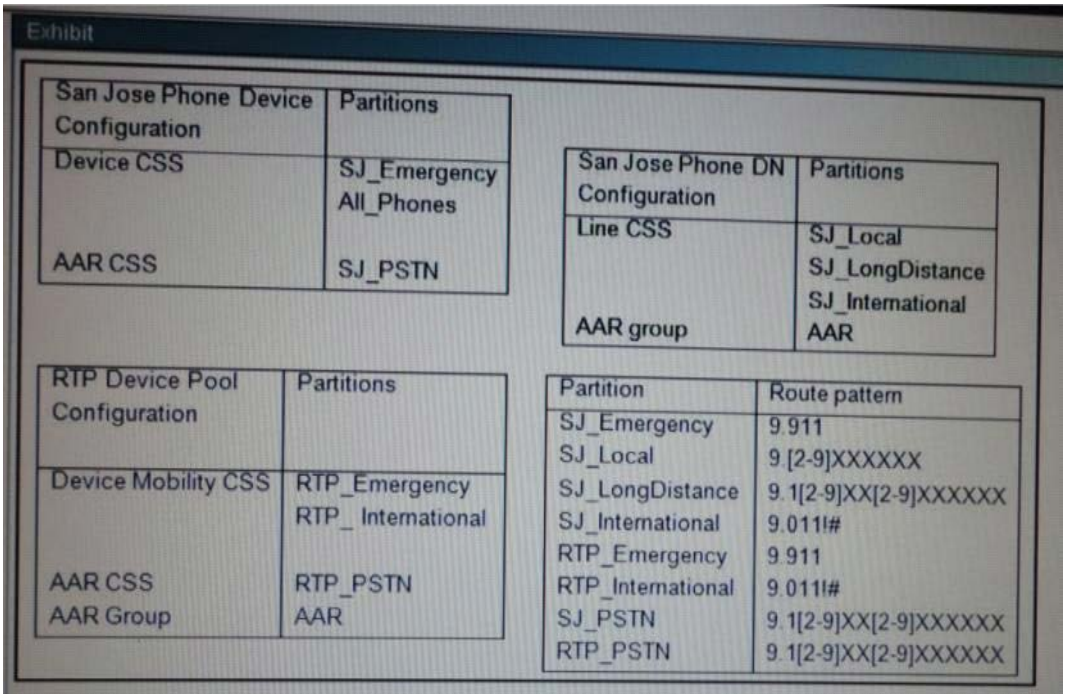
**Answer: D**

Explanation:
- To make a successful call within CUCM cluster following condition should satisfy.
No CSS, No partitions are used for call routing, default call routing hence any phone can call any phone within same CUCM cluster.
If we want to configure call restriction then CSS and partitions are must, if we don't configure required partition in CSS then call will not be successful.

Reference:
http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_tech_note09186a0080094b53.shtml

## Question: 7

Refer to the exhibit.



Exhibit

| San Jose Phone Device Configuration | Partitions |
|---|---|
| Device CSS | SJ_Emergency<br>All_Phones |
| AAR CSS | SJ_PSTN |

| San Jose Phone DN Configuration | Partitions |
|---|---|
| Line CSS | SJ_Local<br>SJ_LongDistance<br>SJ_International |
| AAR group | AAR |

| RTP Device Pool Configuration | Partitions |
|---|---|
| Device Mobility CSS | RTP_Emergency<br>RTP_ International |
| AAR CSS | RTP_PSTN |
| AAR Group | AAR |

| Partition | Route pattern |
|---|---|
| SJ_Emergency | 9.911 |
| SJ_Local | 9.[2-9]XXXXXX |
| SJ_LongDistance | 9.1[2-9]XX[2-9]XXXXXX |
| SJ_International | 9.011!# |
| RTP_Emergency | 9.911 |
| RTP_International | 9.011!# |
| SJ_PSTN | 9.1[2-9]XX[2-9]XXXXXX |
| RTP_PSTN | 9.1[2-9]XX[2-9]XXXXXX |

When a Cisco IP Communicator phone roams from San Jose (SJ) to RTP, the Cisco IP Communicator physical location and the device mobility group change from SJ to RTP All route patterns are assigned a route list that points to the local route group All device pools are configured to use the local route group Which statement is true when the roaming phone places an AAR call?

A. Since globalized call routing is not configured, then the SJ gateway will be used in this case
B. The phone will use the AAR CSS that contains the SJ_PSTN partition. The call will egress at the SJ gateway
C. The phone will use the AAR CSS that contains the RTP_PSTN partition. The call will egress at the SJ gateway
D. The phone will use the AAR CSS that contains the SJ_PSTN partition. The call will egress at the RTP gateway.
E. The phone will use the AAR CSS that contains the RTP_PSTN partition The call will egress at the RTP gateway

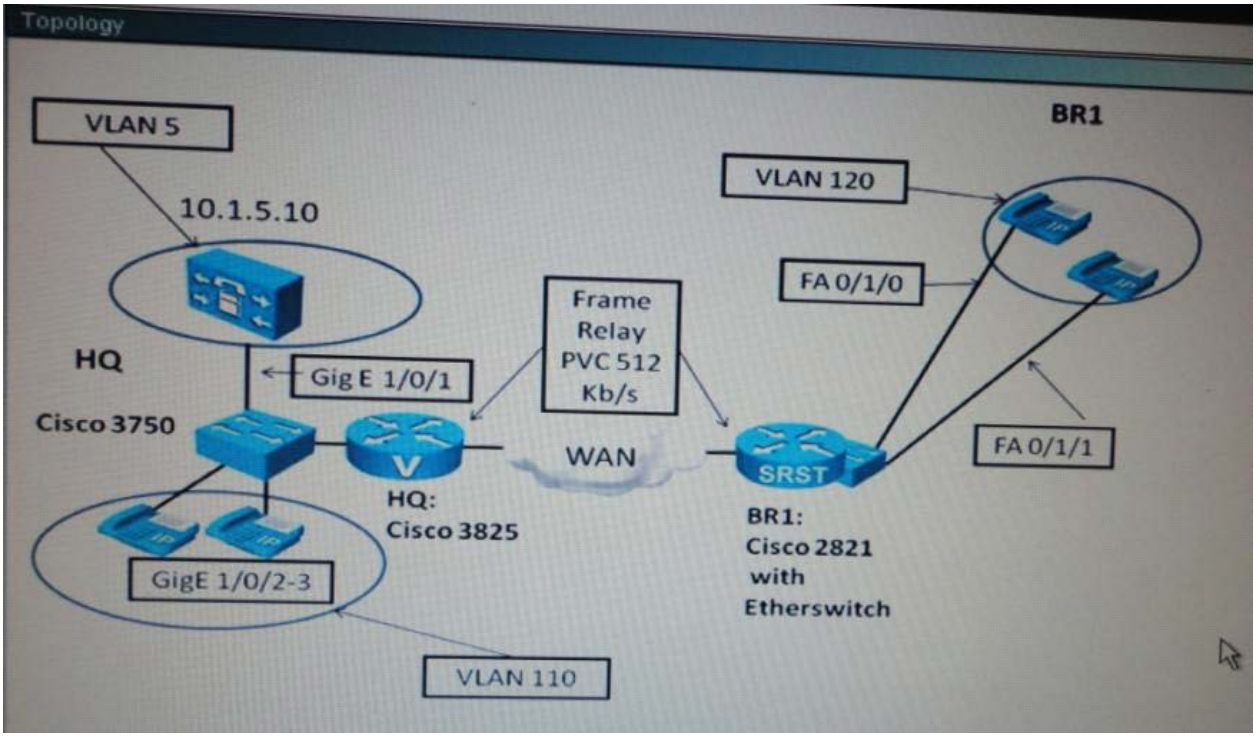
**Answer: D**

Explanation:

Cisco Unified Communications Manager Version 7.0 introduced the Local Route Group feature. When using local route groups, gateway selection is totally independent of the matched route pattern and referenced route list and routegroup. The use of the Local Route Group feature makes no changes regarding roaming-sensitive settings. The application of these settings always makes sense when roaming between sites. The settings have no influence to the gateway selection and the dial rules that a user must follow. However, the dial planrelated part of Device Mobility changes substantially withthe new dial plan concept, This concept allows a roaming user to follow the home dial rules for external calls but use the local gateway of the roaming site In this case, When the device mobility group is not the same for San Jose and RTP, the Device Mobility related settings are not applied. The phone device keeps its San Jose-specific configuration Despite the San Jose-specific configuration on the phone, the PSTN calls that originate from the roaming phone are routed via the local PSTN gateway (RTP GW) and are based on the route list and device pool local route group settings.
The San Jose-specific dial plan is used. Also, AAR remains configured with the San Jose-specific configuration, but if the San Jose dial plan and San Jose AAR CSS permit and if the AAR group contains the prefix that can be applied in RTP, then AAR can work

## Question: 8

Refer to the exhibits.




Low latency queuing has been implemented on the HO and BR1 routers to allow five G.729 calls. Callers are still experiencing poor audio, in particular choppy and delayed audio during traffic congestion. This problem occurs even with just one active call. Which two actions will solve the issue?

HQ Router Config

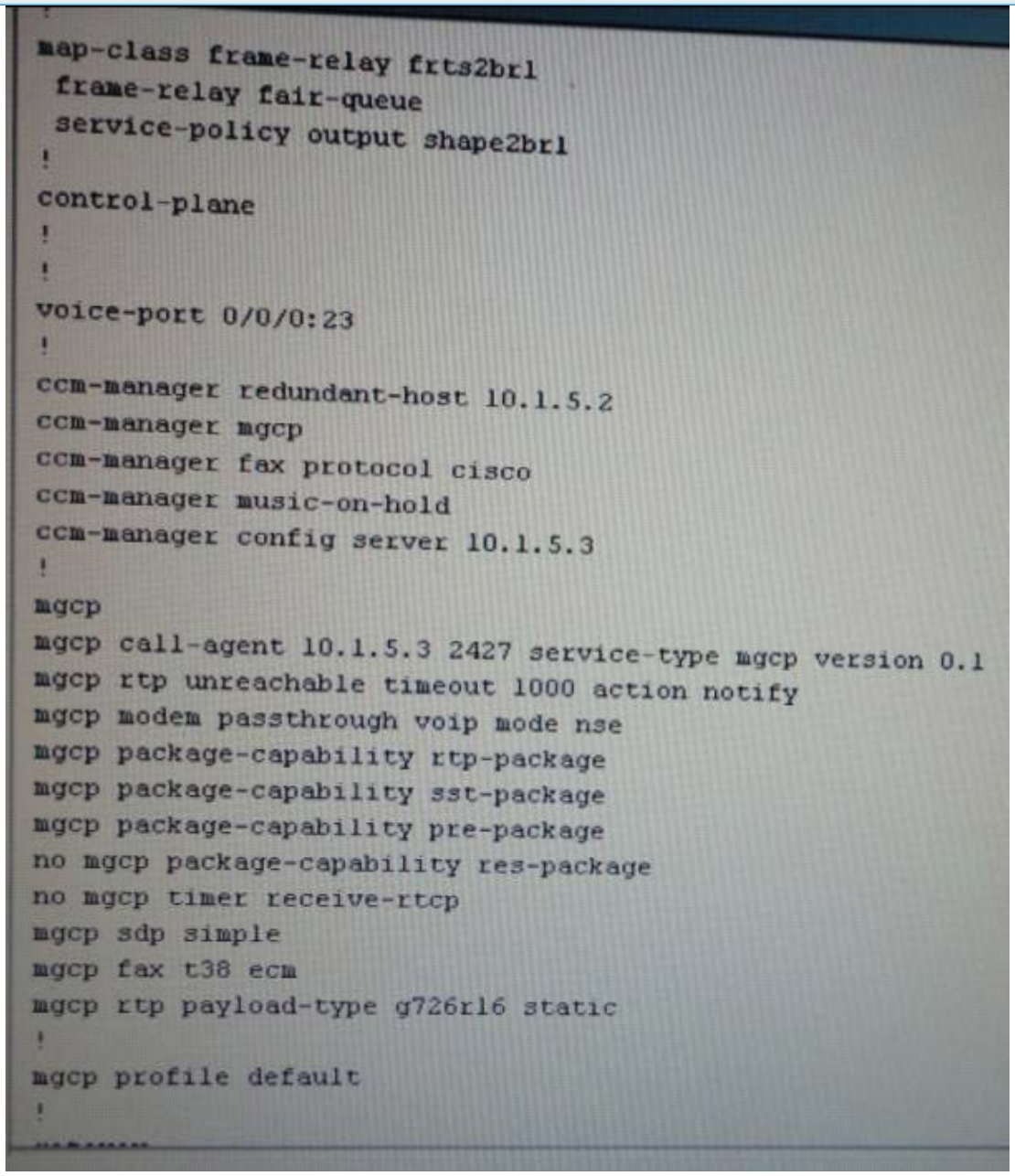
```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname HQ
!
boot-start-marker
boot system flash:c3825-ipvoice_ivs-mz.124-22.T.bin
boot-end-marker
!
card type t1 0 0
logging message-counter syslog
enable password ciscol23
!
no aaa new-model
clock timezone PST -8
clock summer-time pst recurring
network-clock-participate wic 0
!
ip source-route
ip cef
!
no ipv6 cef
multilink bundle-name authenticated
no ip domain lookup
!
!
isdn switch-type primary-ni
!
voice-card 0
```

HQ Router Config

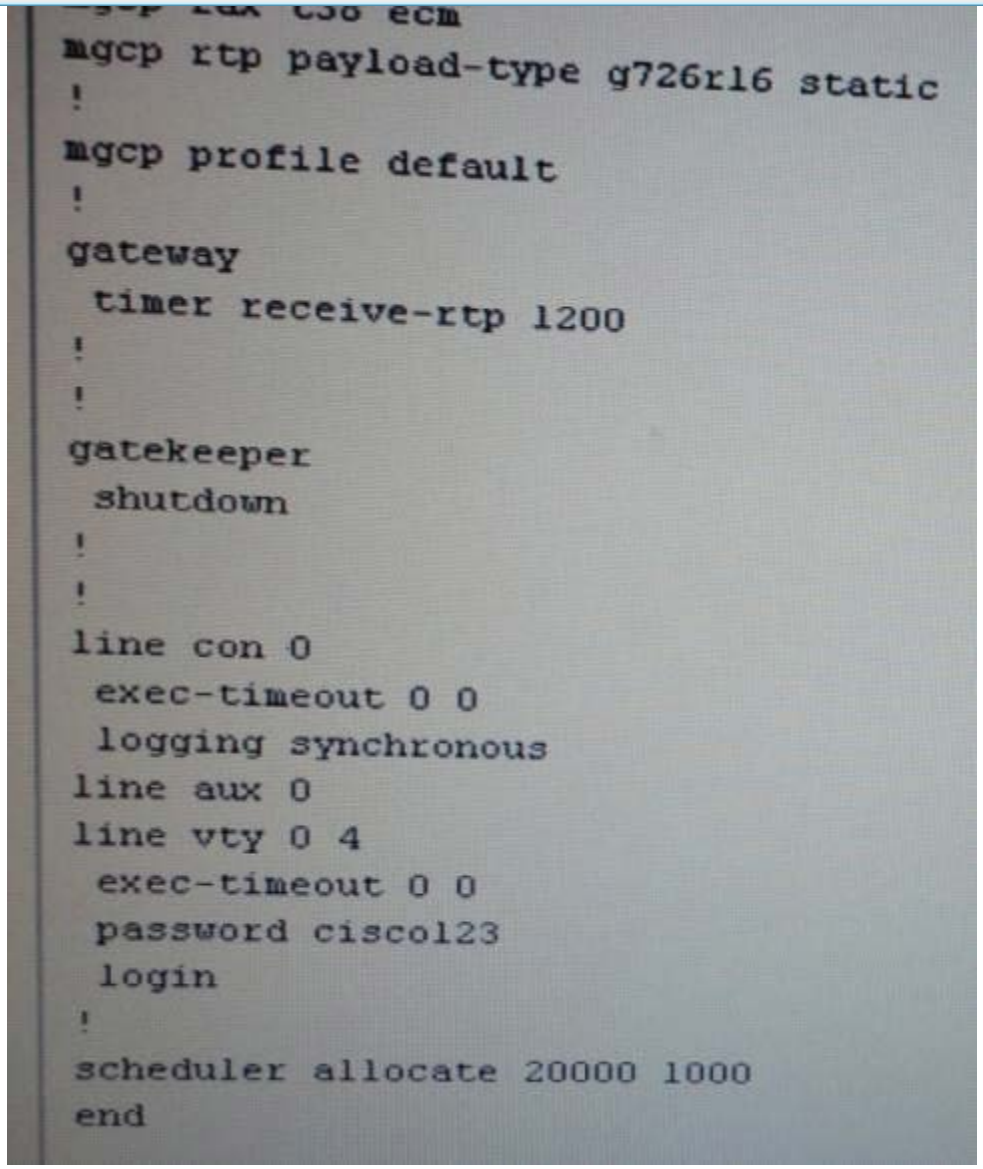
```
voice-card 0
 dsp services dspfarm
!
!
!
!
archive
 log config
 hidekeys
!
!
controller T1 0/0/0
 cablelength short 110
 pri-group timeslots 1-12,24 service mgcp
!
!
class-map match-all ctraffic
 match ip dscp cs3
class-map match-all vtraffic
 match ip dscp ef
!
policy-map voice2br1
 class vtraffic
 priority 64
 class ctraffic
 bandwidth 8
 class class-default
 fair-queue
!
policy-map shape2br1
 class class-default
```

HQ Router Config

```
policy-map shape2br1
 class class-default
 shape average 486400 4864 0
 service-policy voice2br1
!
interface GigabitEthernet0/0
 no ip address
 ip pim sparse-dense-mode
 duplex auto
 speed auto
 media-type rj45
!
interface GigabitEthernet0/0.5
 encapsulation dot1Q 5
 ip address 10.1.5.1 255.255.255.0
!
interface GigabitEthernet0/0.110
 encapsulation dot1Q 110
 ip address 10.1.110.1 255.255.255.0
 ip helper-address 10.1.5.2
!
interface GigabitEthernet0/1
!
interface Serial0/0/0:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice voice
 isdn bind-l3 ccm-manager
 isdn bchan-number-order ascending
 no cdp enable
```



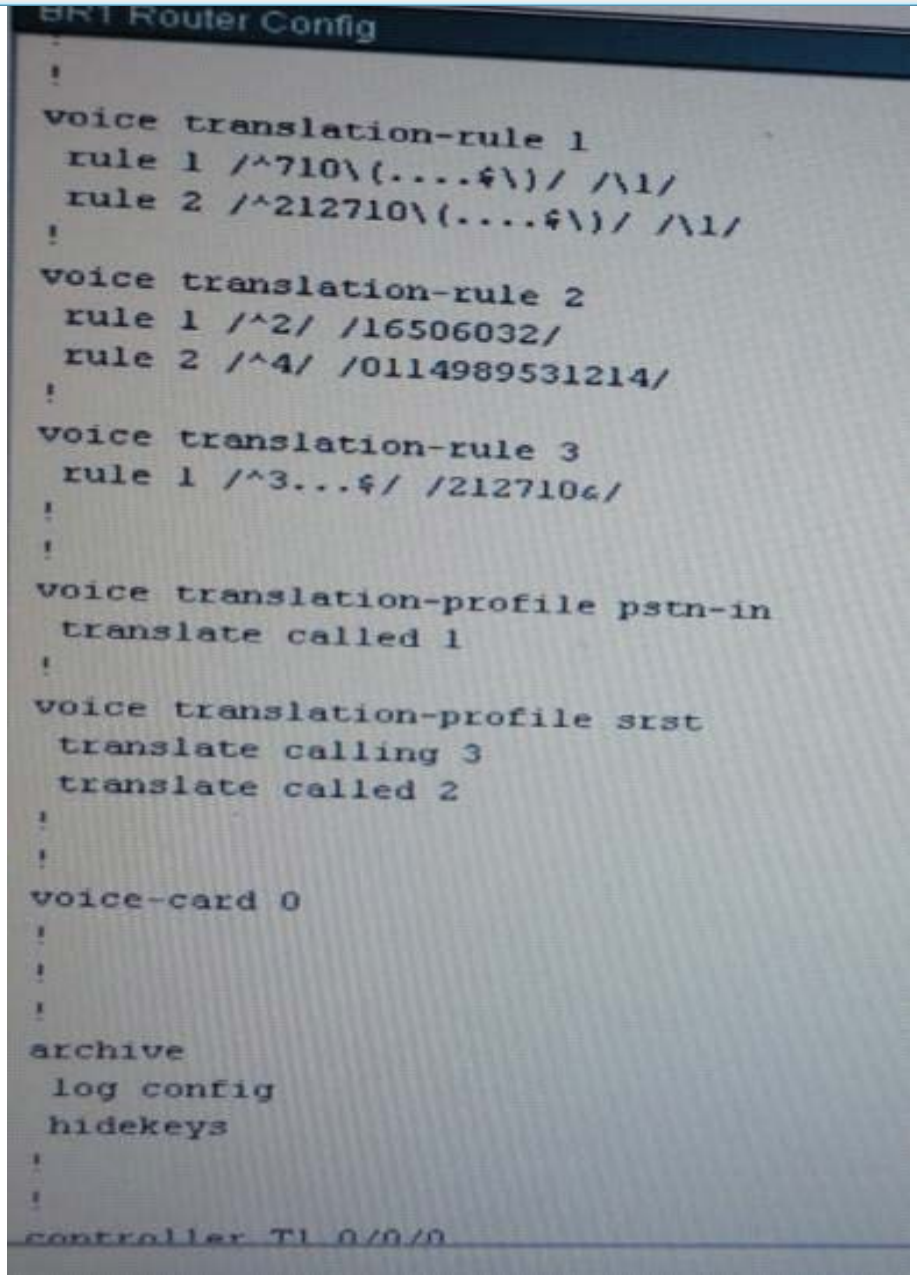
```
!
map-class frame-relay frts2br1
 frame-relay fair-queue
 service-policy output shape2br1
!
control-plane
!
!
voice-port 0/0/0:23
!
ccm-manager redundant-host 10.1.5.2
ccm-manager mgcp
ccm-manager fax protocol cisco
ccm-manager music-on-hold
ccm-manager config server 10.1.5.3
!
mgcp
mgcp call-agent 10.1.5.3 2427 service-type mgcp version 0.1
mgcp rtp unreachable timeout 1000 action notify
mgcp modem passthrough voip mode nse
mgcp package-capability rtp-package
mgcp package-capability sst-package
mgcp package-capability pre-package
no mgcp package-capability res-package
no mgcp timer receive-rtcp
mgcp sdp simple
mgcp fax t38 ecm
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
```

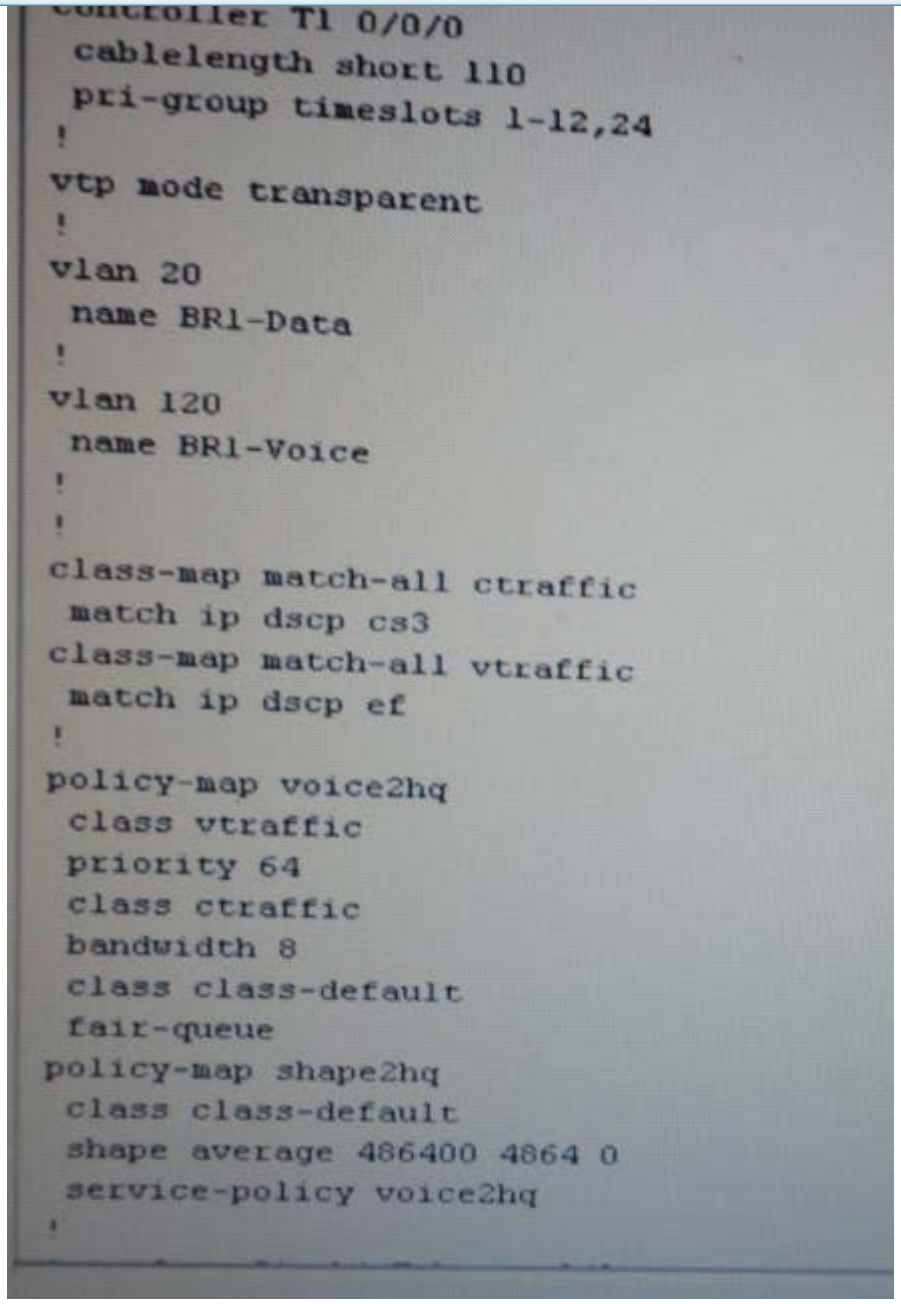


```
                                ecm
mgcp rtp payload-type g726r16 static
!
mgcp profile default
!
gateway
 timer receive-rtp 1200
!
!
gatekeeper
 shutdown
!
!
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
line vty 0 4
 exec-timeout 0 0
 password ciscol23
 login
!
scheduler allocate 20000 1000
end
```

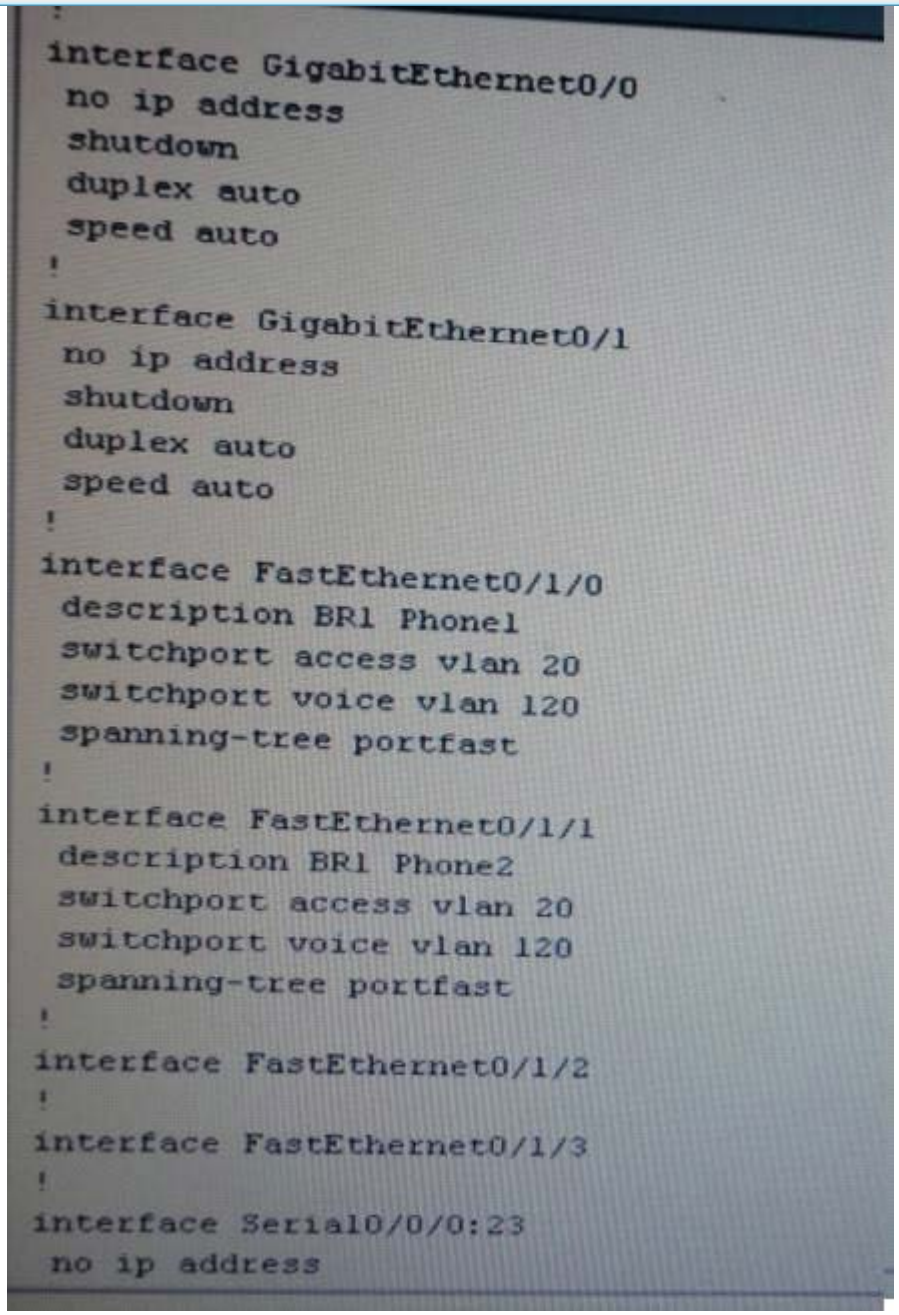
BR1 Router Config

```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname BR1
!
boot-start-marker
boot-end-marker
!
card type t1 0 0
logging message-counter syslog
enable password cisco
!
no aaa new-model
network-clock-participate wic 0
!
ip source-route
!
!
ip cef
no ip domain lookup
no ipv6 cef
multilink bundle-name authenticated
!
isdn switch-type primary-ni
!
!
voice class h323 1
 h225 timeout tcp establish 3
!
```

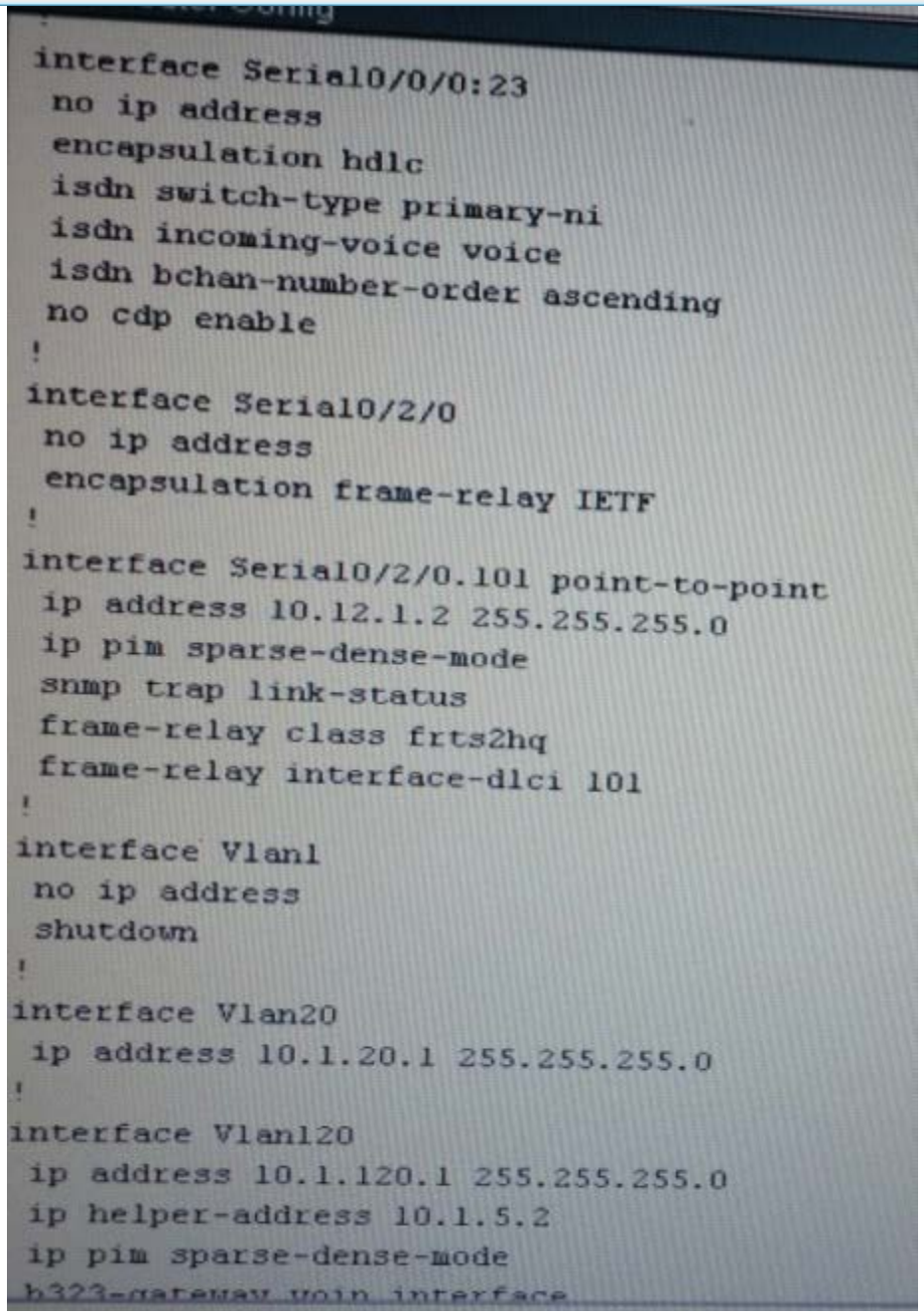

BR1 Router Config
!
voice translation-rule 1
rule 1 /^710\(....$\)/ /\1/
rule 2 /^212710\(....$\)/ /\1/
!
voice translation-rule 2
rule 1 /^2/ /16506032/
rule 2 /^4/ /01149895312l4/
!
voice translation-rule 3
rule 1 /^3...$/ /212710c/
!
!
voice translation-profile pstn-in
translate called 1
!
voice translation-profile srst
translate calling 3
translate called 2
!
!
voice-card 0
!
!
!
archive
log config
hidekeys
!
!
controller T1 0/0/0



```
controller T1 0/0/0
 cablelength short 110
 pri-group timeslots 1-12,24
!
vtp mode transparent
!
vlan 20
 name BR1-Data
!
vlan 120
 name BR1-Voice
!
!
class-map match-all ctraffic
 match ip dscp cs3
class-map match-all vtraffic
 match ip dscp ef
!
policy-map voice2hq
 class vtraffic
 priority 64
 class ctraffic
 bandwidth 8
 class class-default
 fair-queue
policy-map shape2hq
 class class-default
 shape average 486400 4864 0
 service-policy voice2hq
!
```



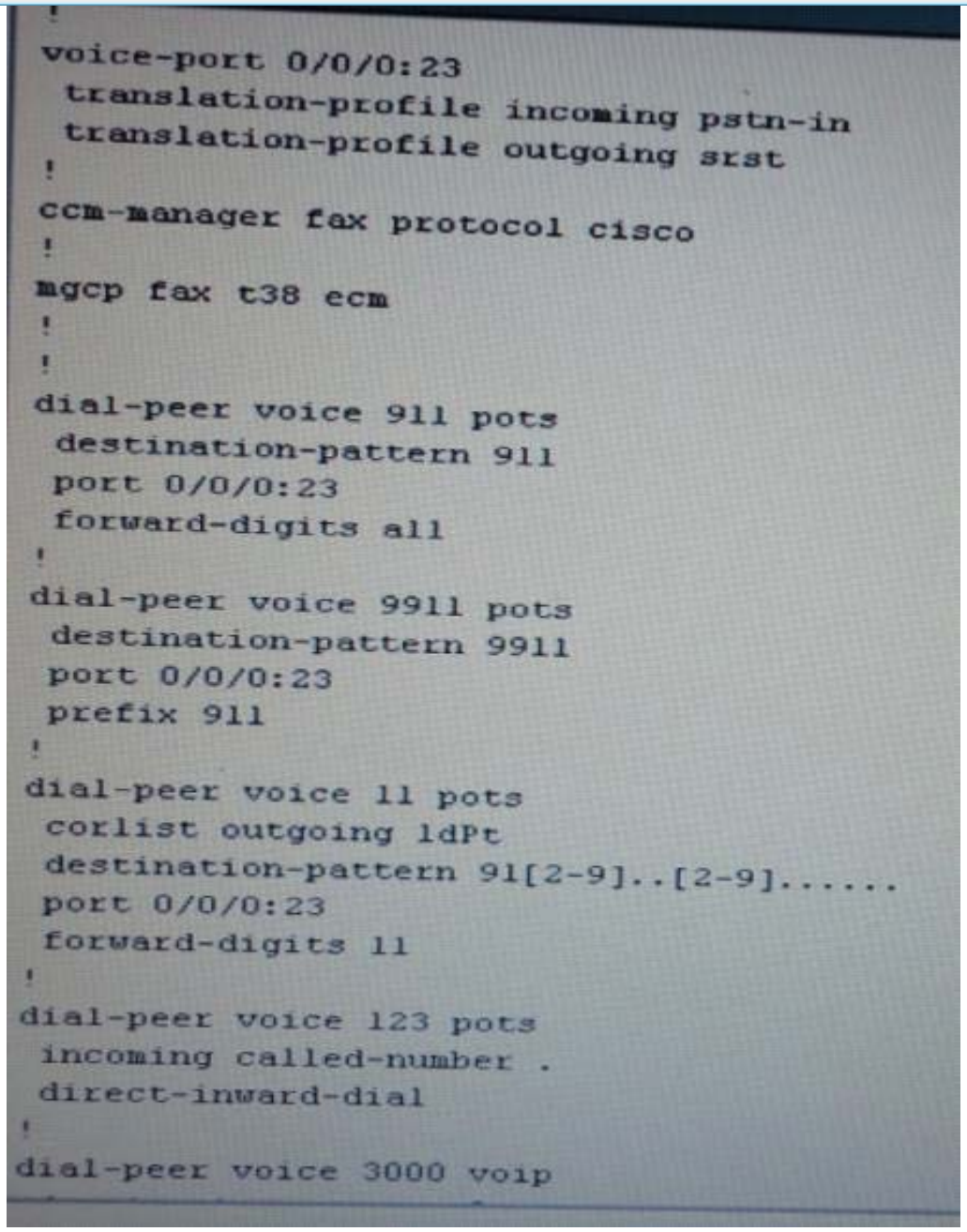
```
!
interface GigabitEthernet0/0
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface FastEthernet0/1/0
 description BR1 Phone1
 switchport access vlan 20
 switchport voice vlan 120
 spanning-tree portfast
!
interface FastEthernet0/1/1
 description BR1 Phone2
 switchport access vlan 20
 switchport voice vlan 120
 spanning-tree portfast
!
interface FastEthernet0/1/2
!
interface FastEthernet0/1/3
!
interface Serial0/0/0:23
 no ip address
```



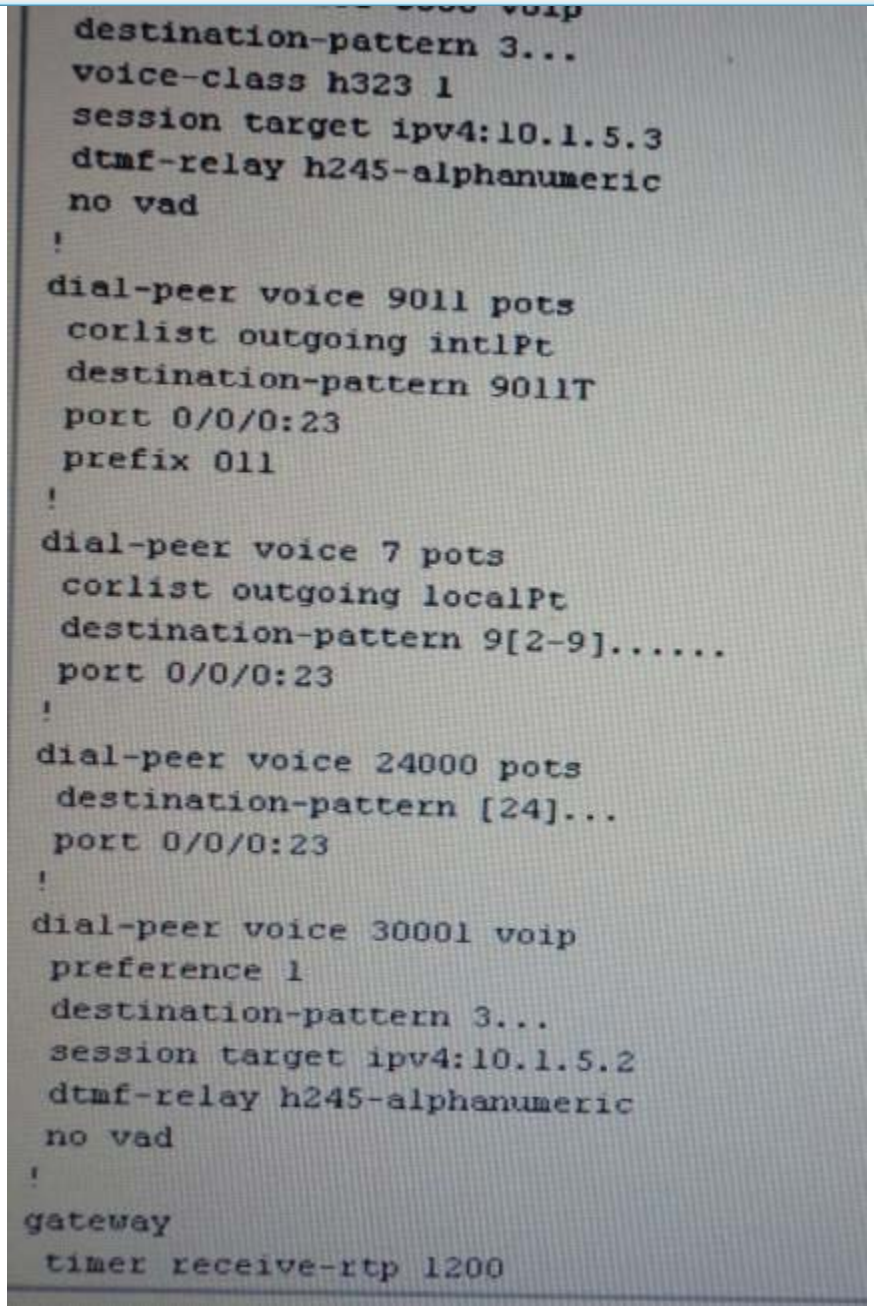
```
interface Serial0/0/0:23
 no ip address
 encapsulation hdlc
 isdn switch-type primary-ni
 isdn incoming-voice voice
 isdn bchan-number-order ascending
 no cdp enable
!
interface Serial0/2/0
 no ip address
 encapsulation frame-relay IETF
!
interface Serial0/2/0.101 point-to-point
 ip address 10.12.1.2 255.255.255.0
 ip pim sparse-dense-mode
 snmp trap link-status
 frame-relay class frts2hq
 frame-relay interface-dlci 101
!
interface Vlan1
 no ip address
 shutdown
!
interface Vlan20
 ip address 10.1.20.1 255.255.255.0
!
interface Vlan120
 ip address 10.1.120.1 255.255.255.0
 ip helper-address 10.1.5.2
 ip pim sparse-dense-mode
 h323-gateway voip interface
```

BR1 Router Config

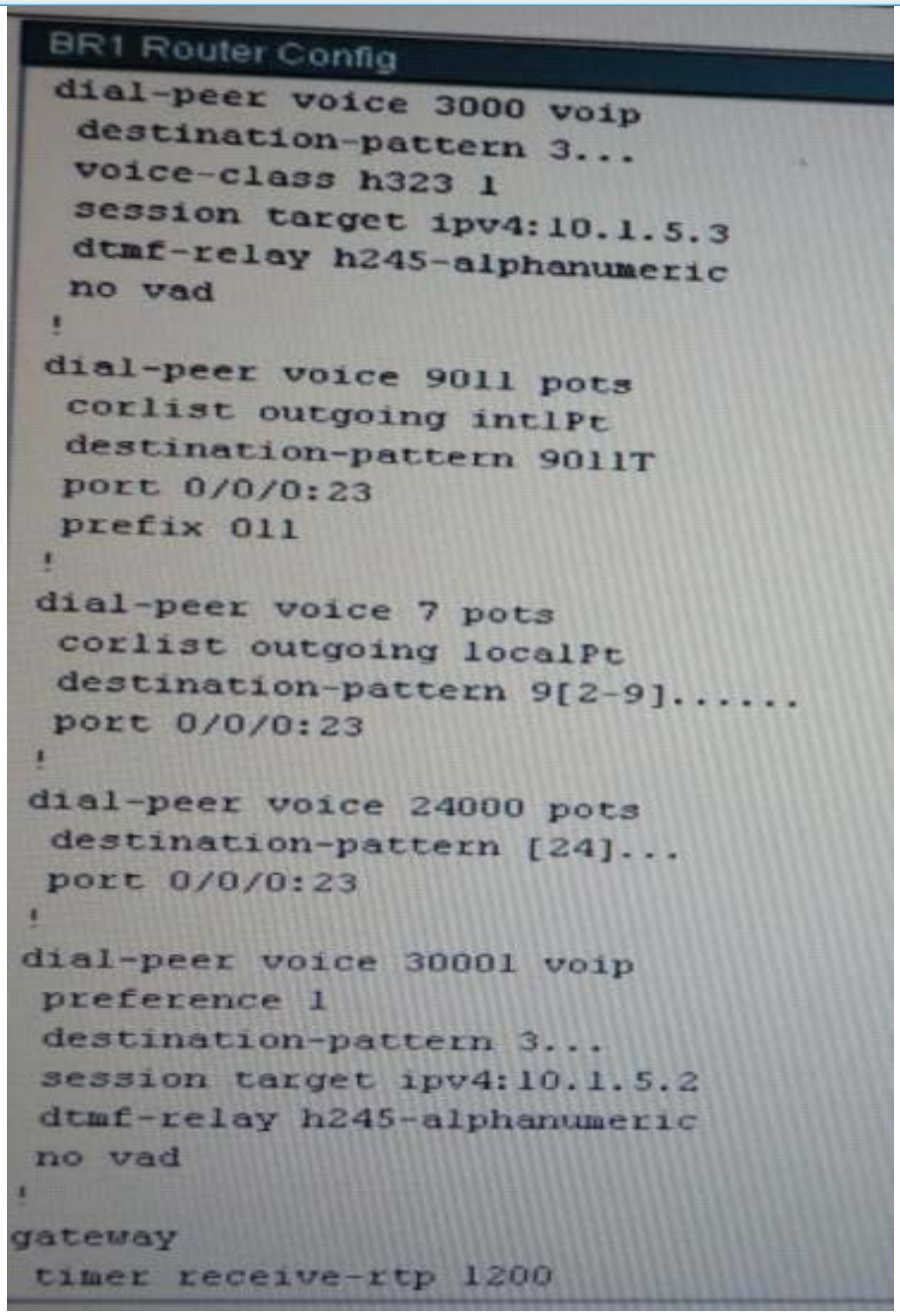
```
!
interface Vlan120
 ip address 10.1.120.1 255.255.255.0
 ip helper-address 10.1.5.2
 ip pim sparse-dense-mode
 h323-gateway voip interface
 h323-gateway voip bind srcaddr 10.1.120.1
!
router eigrp 10
 network 10.0.0.0
 no auto-summary
!
ip forward-protocol nd
!
no ip http server
!
!
map-class frame-relay frts2hq
 frame-relay fair-queue
 service-policy output shape2hq
!
control-plane
!
voice-port 0/0/0:23
 translation-profile incoming pstn-in
 translation-profile outgoing srst
!
ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
!
!
```

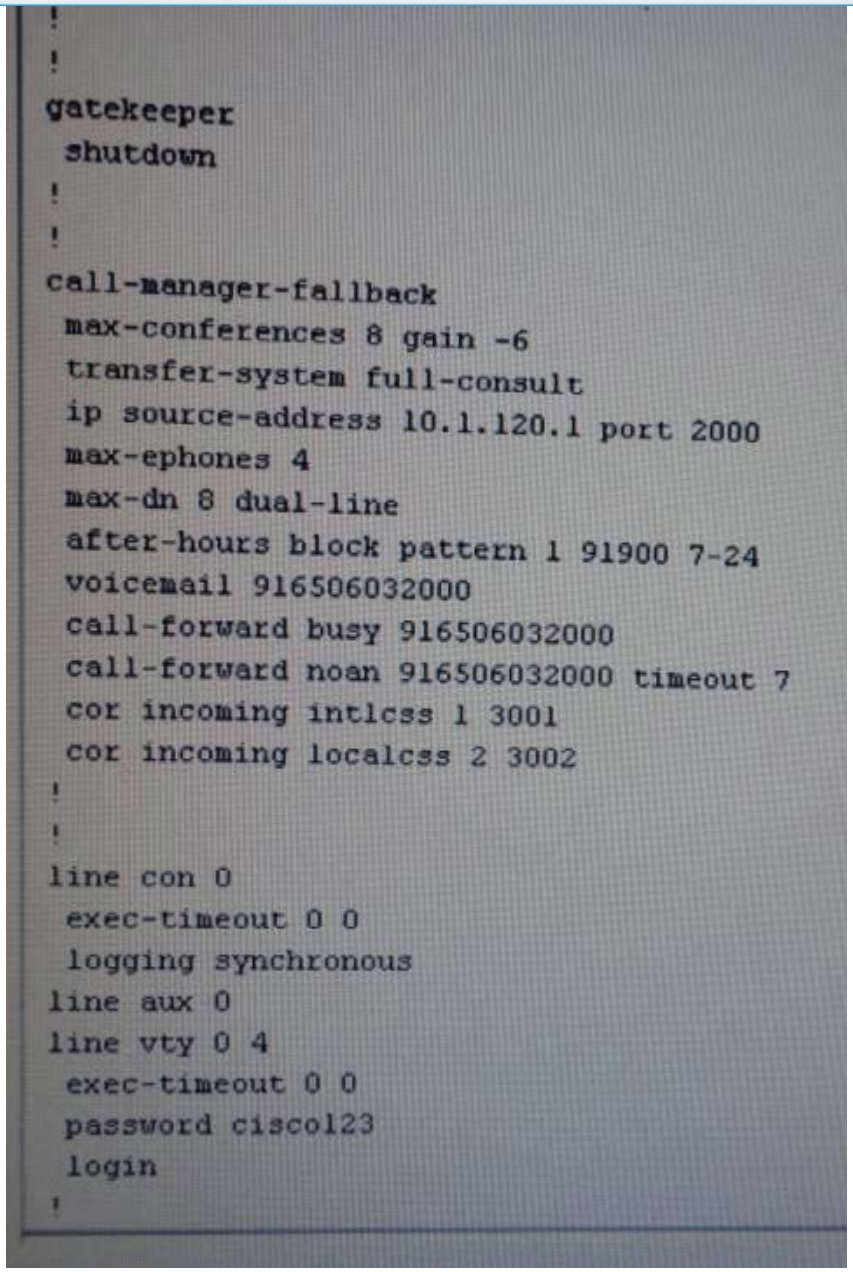


```
!
voice-port 0/0/0:23
 translation-profile incoming pstn-in
 translation-profile outgoing srst
!
ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
!
!
dial-peer voice 911 pots
 destination-pattern 911
 port 0/0/0:23
 forward-digits all
!
dial-peer voice 9911 pots
 destination-pattern 9911
 port 0/0/0:23
 prefix 911
!
dial-peer voice 11 pots
 corlist outgoing ldPt
 destination-pattern 91[2-9]..[2-9].....
 port 0/0/0:23
 forward-digits 11
!
dial-peer voice 123 pots
 incoming called-number .
 direct-inward-dial
!
dial-peer voice 3000 voip
```



```
 destination-pattern 3...
 voice-class h323 1
 session target ipv4:10.1.5.3
 dtmf-relay h245-alphanumeric
 no vad
!
dial-peer voice 9011 pots
 corlist outgoing intlPt
 destination-pattern 9011T
 port 0/0/0:23
 prefix 011
!
dial-peer voice 7 pots
 corlist outgoing localPt
 destination-pattern 9[2-9].....
 port 0/0/0:23
!
dial-peer voice 24000 pots
 destination-pattern [24]...
 port 0/0/0:23
!
dial-peer voice 30001 voip
 preference 1
 destination-pattern 3...
 session target ipv4:10.1.5.2
 dtmf-relay h245-alphanumeric
 no vad
!
gateway
 timer receive-rtp 1200
```


BR1 Router Config
dial-peer voice 3000 voip
destination-pattern 3...
voice-class h323 1
session target ipv4:10.1.5.3
dtmf-relay h245-alphanumeric
no vad
!
dial-peer voice 9011 pots
corlist outgoing intlPt
destination-pattern 9011T
port 0/0/0:23
prefix 011
!
dial-peer voice 7 pots
corlist outgoing localPt
destination-pattern 9[2-9].....
port 0/0/0:23
!
dial-peer voice 24000 pots
destination-pattern [24]...
port 0/0/0:23
!
dial-peer voice 30001 voip
preference 1
destination-pattern 3...
session target ipv4:10.1.5.2
dtmf-relay h245-alphanumeric
no vad
!
gateway
timer receive-rtp 1200



```
!
!
gatekeeper
 shutdown
!
!
call-manager-fallback
 max-conferences 8 gain -6
 transfer-system full-consult
 ip source-address 10.1.120.1 port 2000
 max-ephones 4
 max-dn 8 dual-line
 after-hours block pattern 1 91900 7-24
 voicemail 916506032000
 call-forward busy 916506032000
 call-forward noan 916506032000 timeout 7
 cor incoming intlcss 1 3001
 cor incoming localcss 2 3002
!
!
line con 0
 exec-timeout 0 0
 logging synchronous
line aux 0
line vty 0 4
 exec-timeout 0 0
 password ciscol23
 login
!
```

A. Change the codec type to G 711. J
B. Configure RSVP call admission control
C. Configure L ink Fragmentation and Interleave on the WAN links
D. Configure RTP header compression on the WAN links
E. Increase the priority queue bandwidth to 80 Kb/s
F. Configure location settings in Cisco Unified Communications Manager to 1 20 Kb/s

**Answer: C,D**

Explanation:
- below link is very good to understand this concept.
Reference:
http://www.cisco.com/en/US/docs/ios/12_2/qos/configuration/guide/qcflem.html

## Question: 9

Refer to the exhibit.

```
11:01:10.482 |StationD:    (0000008) DialedNumber dialedNumber=911 lineInstance=1 callReference=20418834.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.482 |StationD:    (0000008) CallState callState=12 lineInstance=1 callReference=20418834 privacy=0 precedenceLv=4 precedenceDm=0|1,100,49,1.13149^10.1
11:01:10.482 |StationD:    (0000008) (1,100,9,17) CallInfo callingPartyName='' callingParty=2001 cgpnVoiceMailbox=                    alternateCallingParty=
11:01:10.482 |StationD:    (0000008) DEBUG- star_DSetCallState(6) State of cdpc(13) is 5.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.482 |RouteListControl::idle_CcSetupReq - RouteList(LRG_RL), numberSetup=0 numberMember=0 vmEnabled=0|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.483 |RouteListControl::idle_CcSetupReq -  RouteList(LRG_RL), RouteListCdrc::create  CI = 20418835  BRANCH = 0 mIsEmccHunt=0|1,100,49,1.13149^10.1.110.
11:01:10.483 |RouteListCdrc::StartTransition non EMCC call|1,100,74,11.1^*^*
11:01:10.483 |RoutePlanServer::getRouteList() - RouteListName(87da585a-9c00-acc9-a136-6de66e69ff01), fRealLocalRouteGroup(64b2c314-fc5d-564b-47aa-329034d94856)
11:01:10.483 |RoutePlanServer::getRouteGroup: standardLocalRG = 00000000-1111-0000-0000-000000000000, input routeGP =00000000-1111-0000-0000-000000000000|*^*^*
11:01:10.483 |RoutePlanServer::getRouteGroup: LRG flag = 1, lRouteGroupName = 00000000-1111-0000-0000-000000000000|*^*^*
11:01:10.483 |RoutePlanServer::getRouteGroup: standardLocalRG = 00000000-1111-0000-0000-000000000000, input routeGP =64b2c314-fc5d-564b-47aa-329034d94856|*^*^*
11:01:10.483 |RoutePlanServer::getRouteGroup: mDeviceInfoList size =1|*^*^*
11:01:10.483 |RouteListCdrc - RouteList Info, by RouteGroups|*^*^*
11:01:10.484 |RouteList - RouteListName=''LRG_RL'' CallableEndPointName=''87da585a-9c00-acc9-a136-6de66e69ff01'' routeListEnabled=''1''|*^*^*
11:01:10.484 |TDCLdb.hpp - CallManagerGroup - serverCount = 1|*^*^*
11:01:10.484 |TDCLdb.hpp - CallManagerGroup - nodeId = 1|*^*^*
11:01:10.484 |RouteList - RouteGroup count=''1''|*^*^*
11:01:10.484 |RouteListCdrc - RouteGroup count = 1|*^*^*
11:01:10.484 |RouteListCdrc - Device count = 1|*^*^*
11:01:10.484 |RouteListCdrc::null0_CcSetupReq check vipr call mViprReroute=0 mViprAlreadyAttempt=0 CI=20418835 BRANCH=0|1,100,49,1.13149^10.1.110.20^SEP002290B
11:01:10.484 |RouteListCdrc::null0_CcSetupReq - gets a next group while 1 groups remain. mAttemptPreemptionCurrentRouteFlag = 0|1,100,49,1.13149^10.1.110.20^SE
11:01:10.484 |RouteListCdrc::algorithmCategorization -- CDRC_SERIAL_DISTRIBUTION type=1|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.484 |RouteListCdrc::createDistributedDeviceInfoList check vipr call flag mViprReroute=0 mViprAlreadyAttempt=0 CI=20418835 BRANCH=0|1,100,49,1.13149^10
11:01:10.484 |RouteListCdrc::null0_ccsetupreq -- newBusyRejFlag = 0, last route_setting = 1|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.484 |RouteListCdrc::null0_CcSetupReq - Selecting a device.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.484 |RouteListCdrc::selectDevices -- mTemporaryDeviceInfoList.size = 1.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.484 |RouteListCdrc::null0_CcSetupReq - RNAR timeout = 0.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.484 |SMDMSharedData::findAliasRegInfo - AliasName = b87f9c1e-e8e8-0b90-4460-1611fc8b19c2 not in AliasInfo hashmap|1,100,49,1.13149^10.1.110.20^SEP0022
11:01:10.484 |DeviceManager::star_DmPidReq - RequestedName=b87f9c1e-e8e8-0b90-4460-1611fc8b19c2 LookupName=b87f9c1e-e8e8-0b90-4460-1611fc8b19c2|1,100,49,1.1314
11:01:10.484 |SMDMSharedData::findRemoteDeviceAny - Key=b87f9c1e-e8e8-0b90-4460-1611fc8b19c2 not in RemoteDeviceInfo hashmap|1,100,49,1.13149^10.1.110.20^SEP00
11:01:10.484 |RouteListCdrc::select_facility_DmPidErr; Unable to locate DeviceName = b87f9c1e-e8e8-0b90-4460-1611fc8b19c2.|1,100,49,1.13149^10.1.110.20^SEP0022
11:01:10.484 |RouteListCdrc::markDeviceAsDown|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::select_facility_DmPidErr: Execute a route action.|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::algorithmCategorization -- CDRC_SERIAL_DISTRIBUTION type=1|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::whichAction -- DOWN (Current Group) = 1|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::routeAction -- current device name=b87f9c1e-e8e8-0b90-4460-1611fc8b19c2, down|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::executeRouteAction: SKIP_TO_NEXT_MEMBER|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
11:01:10.485 |RouteListCdrc::skipToNextMember|1,100,49,1.13149^10.1.110.20^SEP002290BA361B
```

When calling 911, which gateway/route list is defined in the route pattern in Cisco Unified Communications Manager and used to route matched digits to the PSTN?

A. SEP002290BA361B

B. standardLocalRG
C. RouteListCdrc
D. LRG_RL
E. nodeId = 1
F. BRANCH

**Answer: D**

Explanation:
- logs clearly showing route list name.

## Question: 10

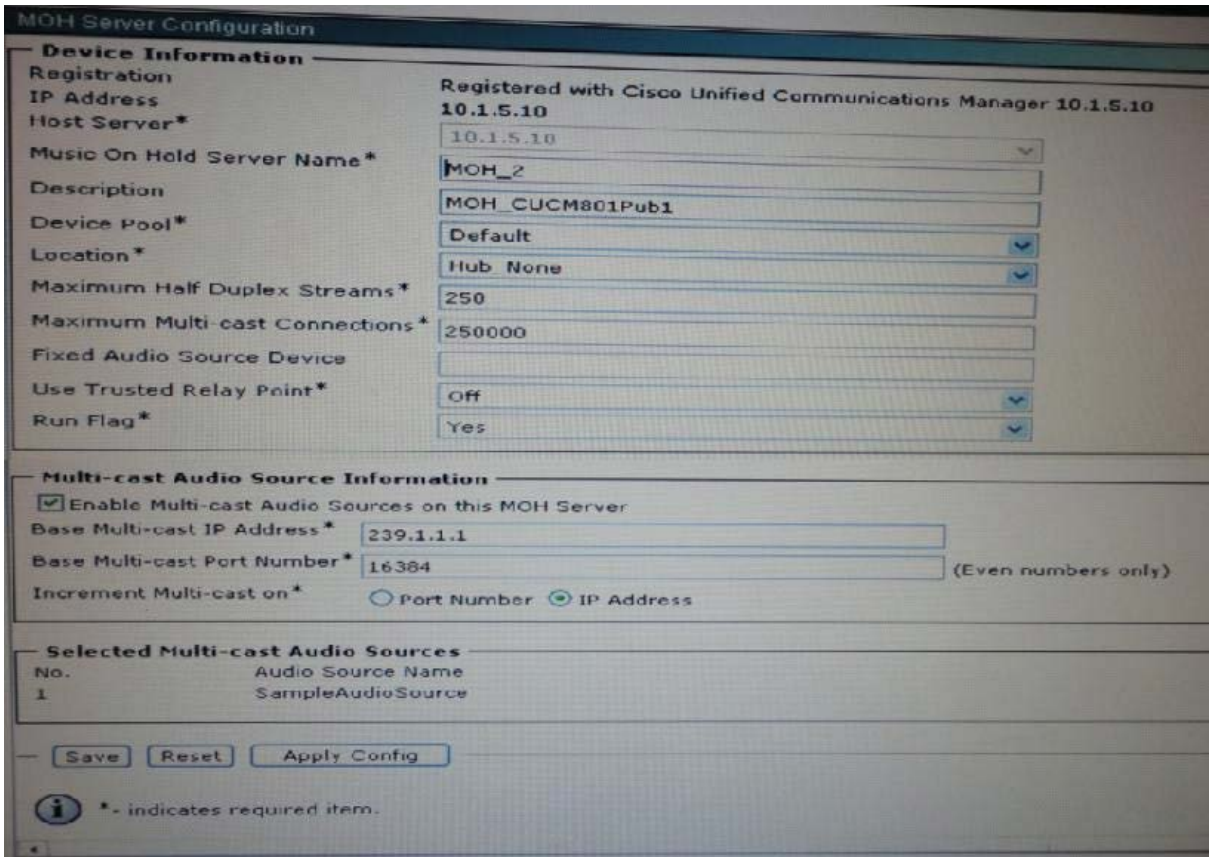
Which Cisco Unified Communications Manager troubleshooting tool can be used to look at detailed specific events, such as dial plan digit analysis, as they die happening?

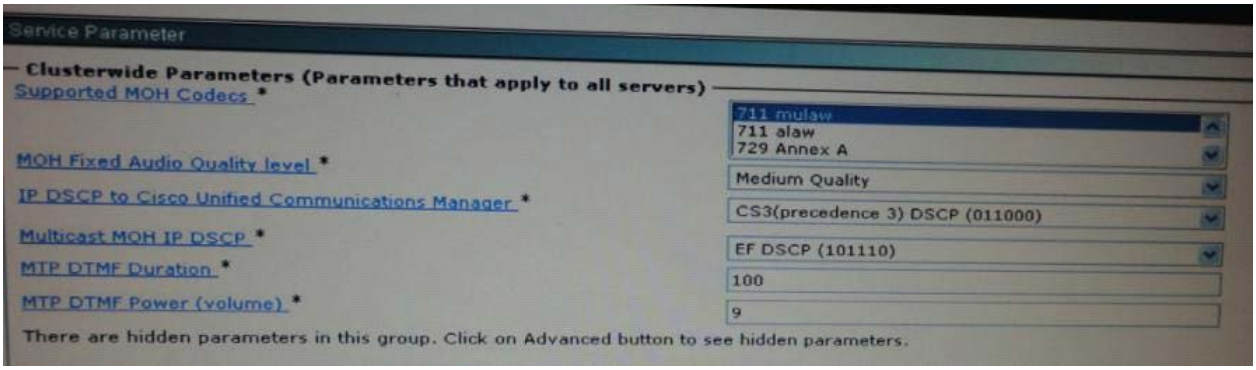
A. traceroutes
B. RTMT real-time trace
C. Cisco Unified Communications Manager alerts
D. Cisco Unified Dialed Number Analyzer
E. RTMT performance log viewer
F. syslog output

**Answer: B**

## Question: 11

Refer to the exhibits.

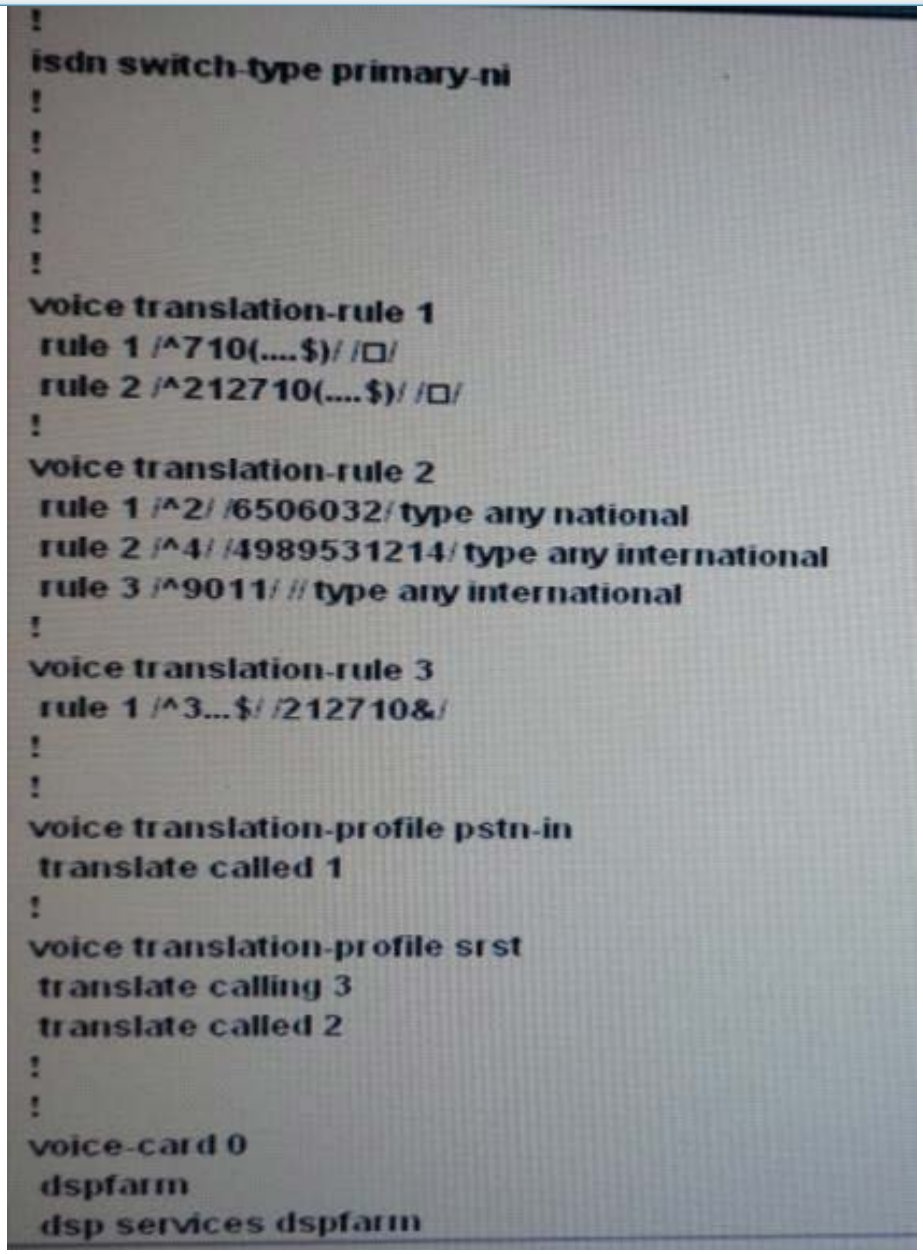

MOH Server Configuration
Device Information
Registration
IP Address
Host Server*
Registered with Cisco Unified Communications Manager 10.1.5.10
10.1.5.10
10.1.5.10
Music On Hold Server Name*
MOH_2
Description
MOH_CUCM801Pub1
Device Pool*
Default
Location*
Hub_None
Maximum Half Duplex Streams*
250
Maximum Multi-cast Connections*
250000
Fixed Audio Source Device
Use Trusted Relay Point*
Off
Run Flag*
Yes
Multi-cast Audio Source Information
Enable Multi-cast Audio Sources on this MOH Server
Base Multi-cast IP Address*
239.1.1.1
Base Multi-cast Port Number*
16384
(Even numbers only)
Increment Multi-cast on*
Port Number
IP Address
Selected Multi-cast Audio Sources
No.
Audio Source Name
1
SampleAudioSource
Save
Reset
Apply Config
*- indicates required item.



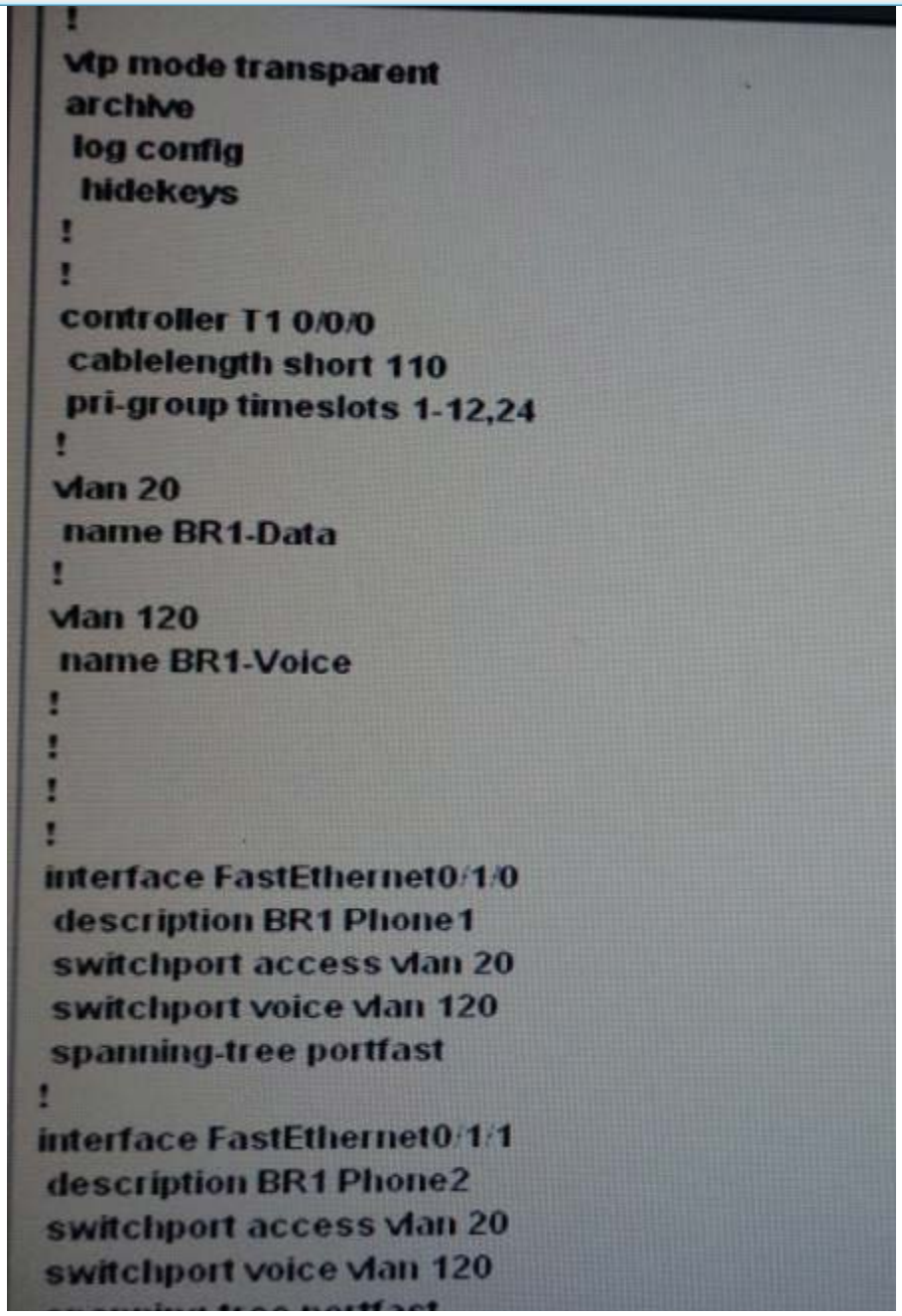

MOH has been configured to run from flash at the BR1 site. The HQ phones and MOH server are placed in the Default region through the Default device pool. The BR1 phones are placed in the BR1 region through the BR1 device pool. The region configuration between Default and BR1 only permits G.729 codec. When an IP phone user at the HQ site places a BR1 caller on hold, the BR1 caller hears tone on hold. Which of the following can cause this issue?

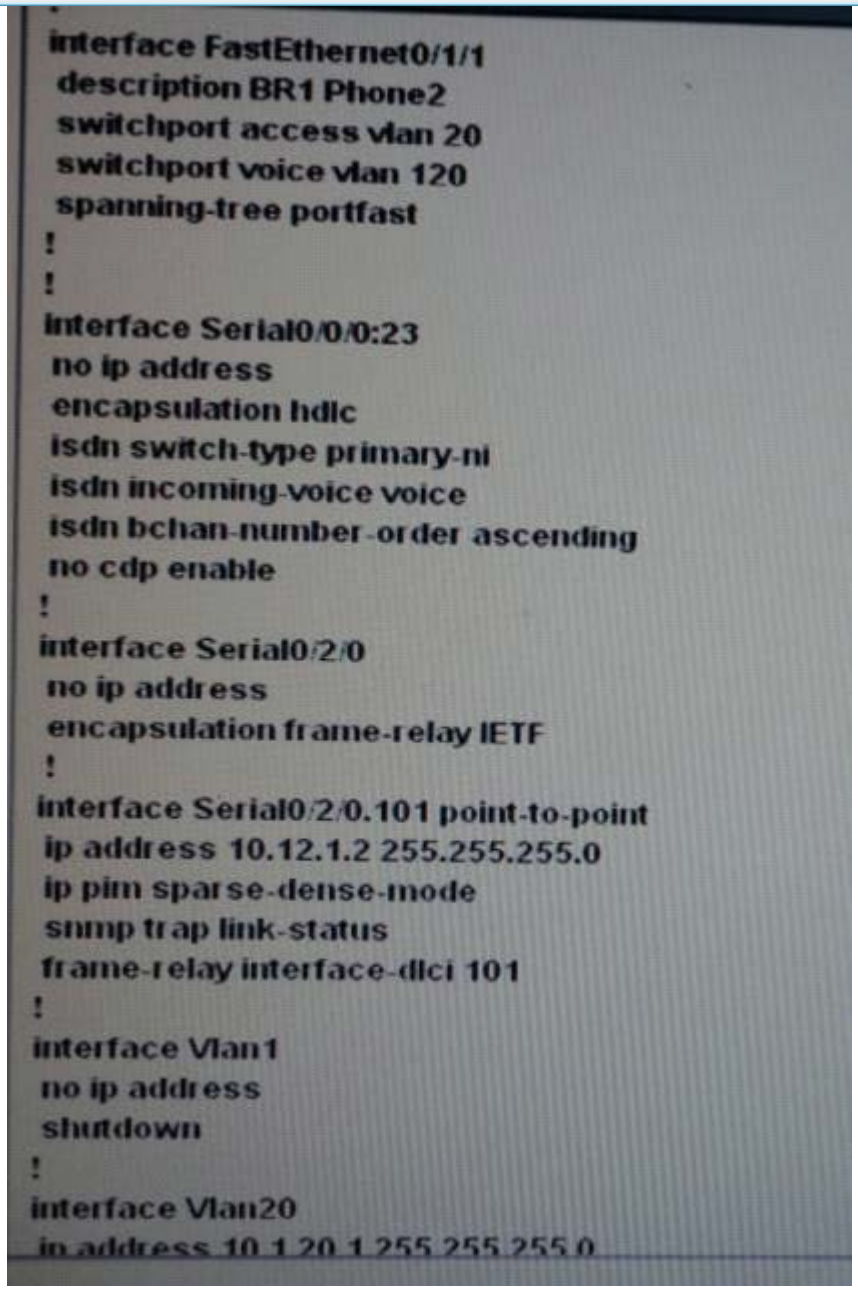
SRST Config

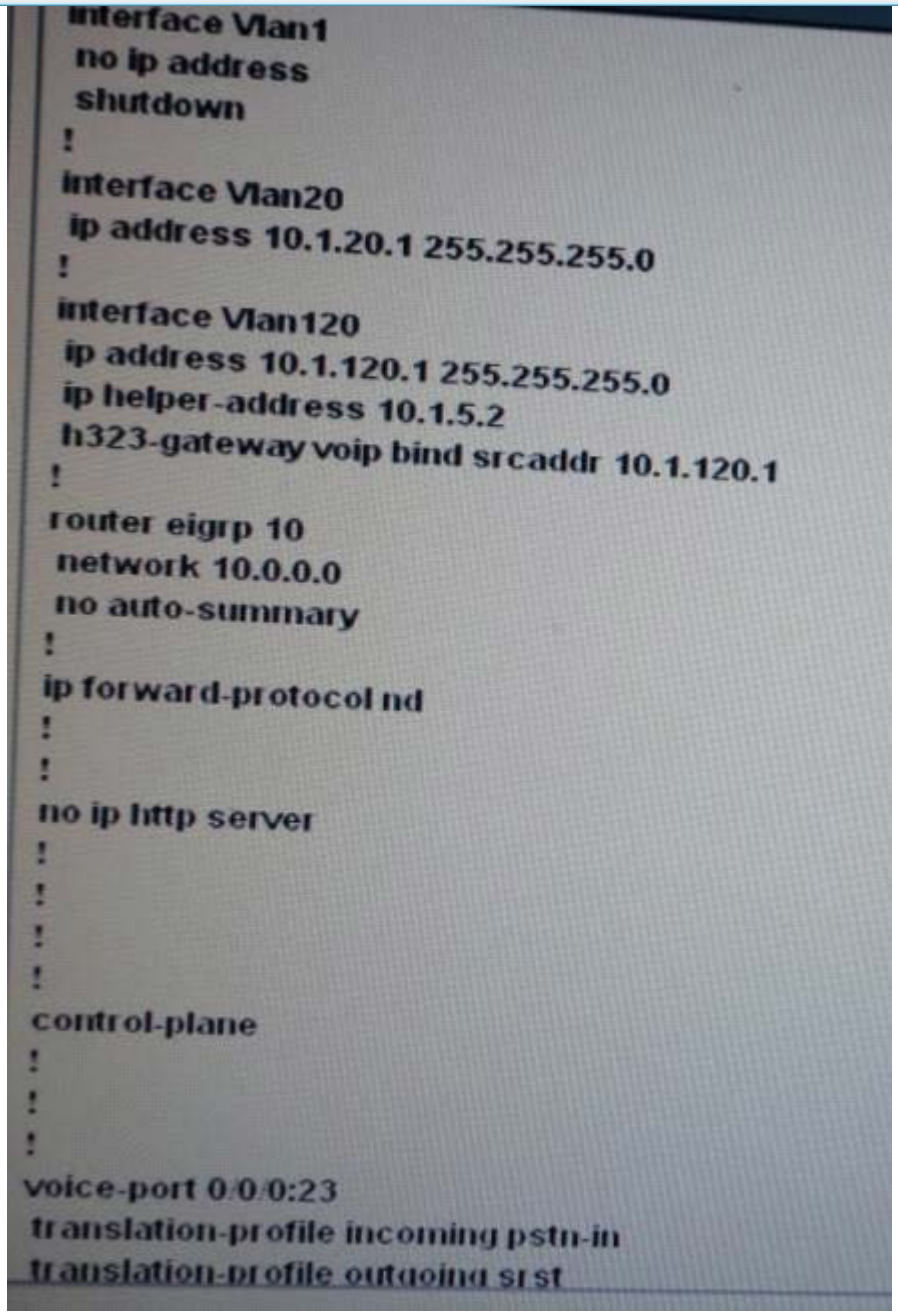
```
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname BR1
!
card type t1 0 0
logging message-counter syslog
enable password cisco123
!
no aaa new-model
network-clock-participate wic 0
!
ip source-route
!
!
ip cef
ip dhcp excluded-address 10.1.20.1 10.1.20.9
ip dhcp excluded-address 10.1.20.21 10.1.20.254
!
ip dhcp pool Data
  network 10.1.20.0 255.255.255.0
  default-router 10.1.20.1
!
!
no ip domain lookup
no ipv6 cef
multilink bundle-name authenticated
!
```



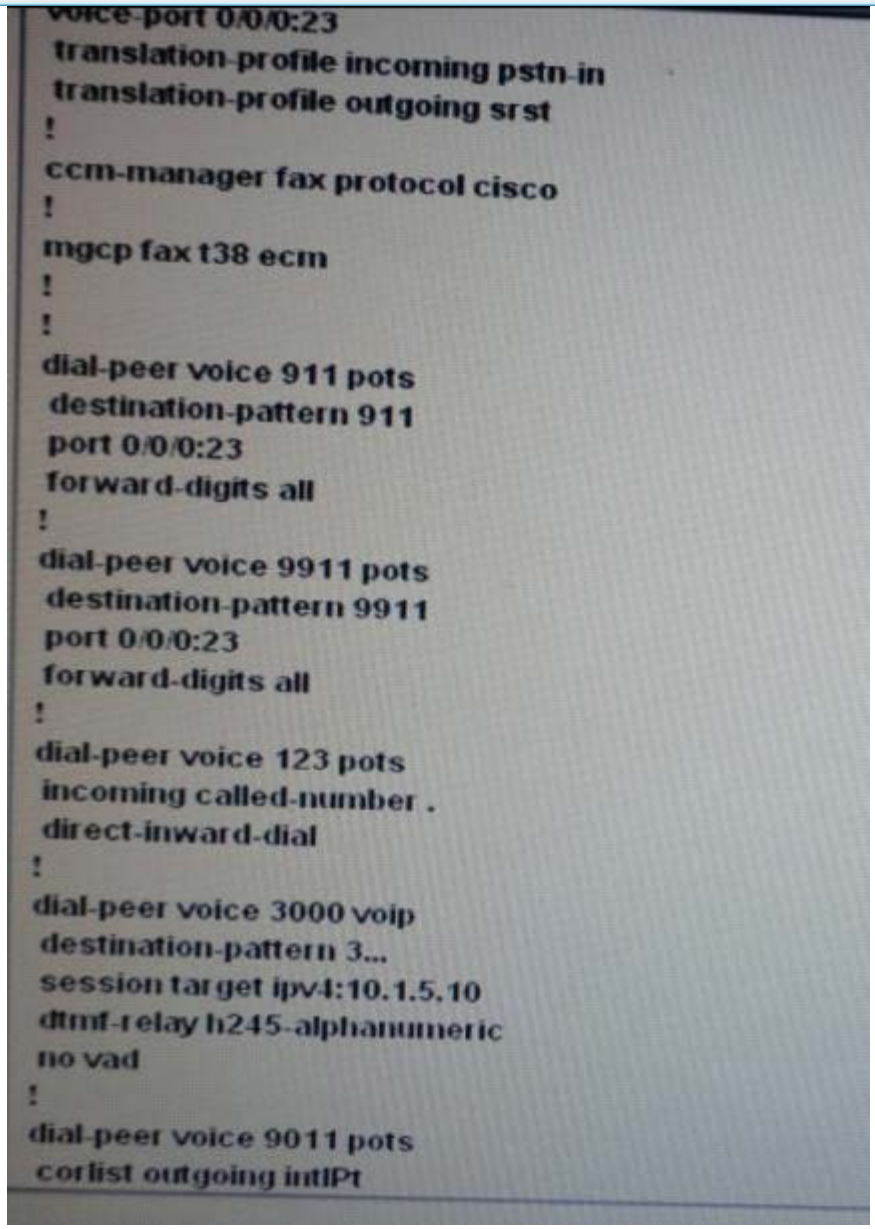
```
!
isdn switch-type primary-ni
!
!
!
!
!
voice translation-rule 1
 rule 1 /^710(....$)/ /□/
 rule 2 /^212710(....$)/ /□/
!
voice translation-rule 2
 rule 1 /^2/ /6506032/ type any national
 rule 2 /^4/ /4989531214/ type any international
 rule 3 /^9011/ // type any international
!
voice translation-rule 3
 rule 1 /^3...$/ /212710&/
!
!
voice translation-profile pstn-in
 translate called 1
!
voice translation-profile srst
 translate calling 3
 translate called 2
!
!
voice-card 0
 dspfarm
 dsp services dspfarm
```

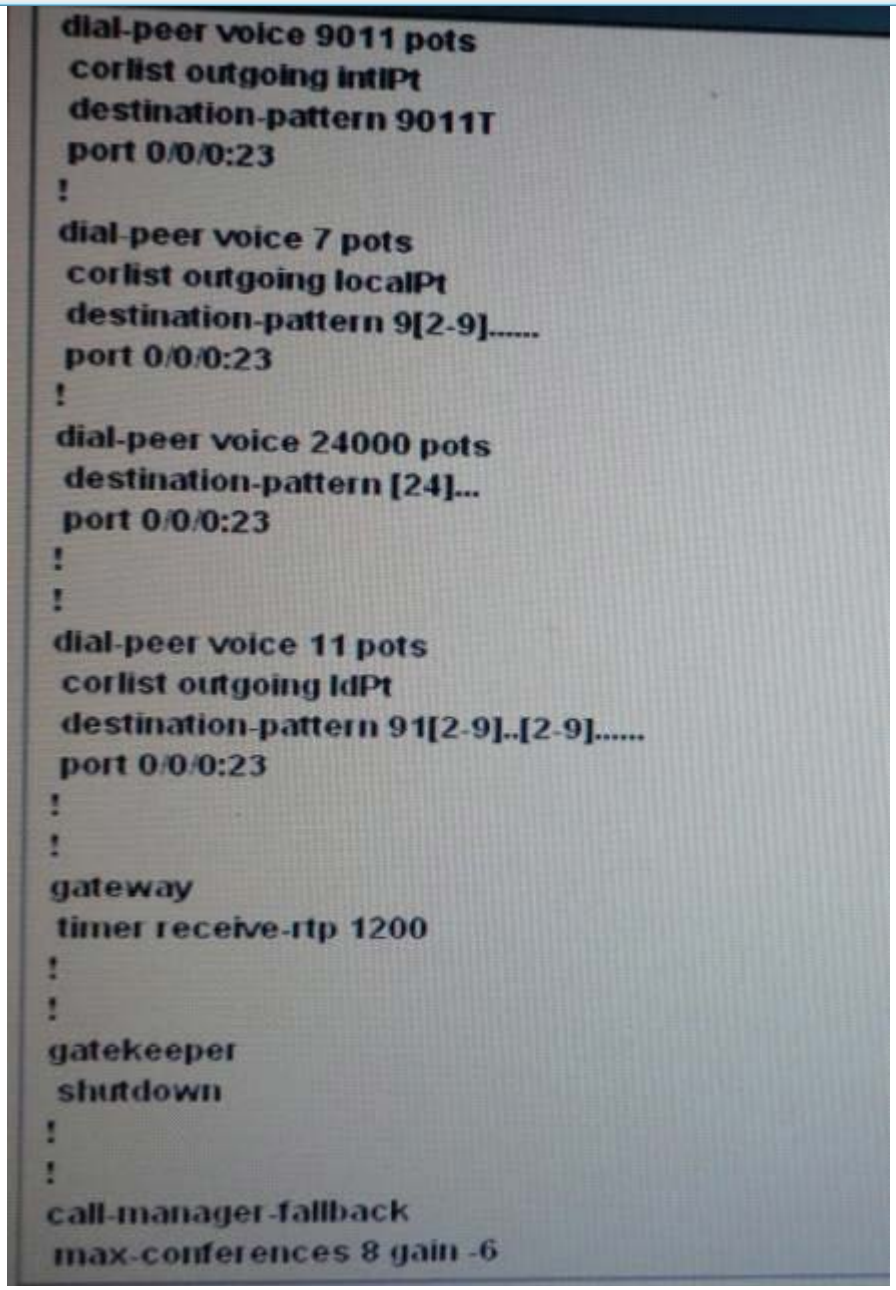

!
vtp mode transparent
archive
log config
hidekeys
!
!
controller T1 0/0/0
cablelength short 110
pri-group timeslots 1-12,24
!
vlan 20
name BR1-Data
!
vlan 120
name BR1-Voice
!
!
!
!
interface FastEthernet0/1/0
description BR1 Phone1
switchport access vlan 20
switchport voice vlan 120
spanning-tree portfast
!
interface FastEthernet0/1/1
description BR1 Phone2
switchport access vlan 20
switchport voice vlan 120


interface FastEthernet0/1/1
description BR1 Phone2
switchport access vlan 20
switchport voice vlan 120
spanning-tree portfast
!
!
interface Serial0/0/0:23
no ip address
encapsulation hdlc
isdn switch-type primary-ni
isdn incoming-voice voice
isdn bchan-number-order ascending
no cdp enable
!
interface Serial0/2/0
no ip address
encapsulation frame-relay IETF
!
interface Serial0/2/0.101 point-to-point
ip address 10.12.1.2 255.255.255.0
ip pim sparse-dense-mode
snmp trap link-status
frame-relay interface-dlci 101
!
interface Vlan1
no ip address
shutdown
!
interface Vlan20

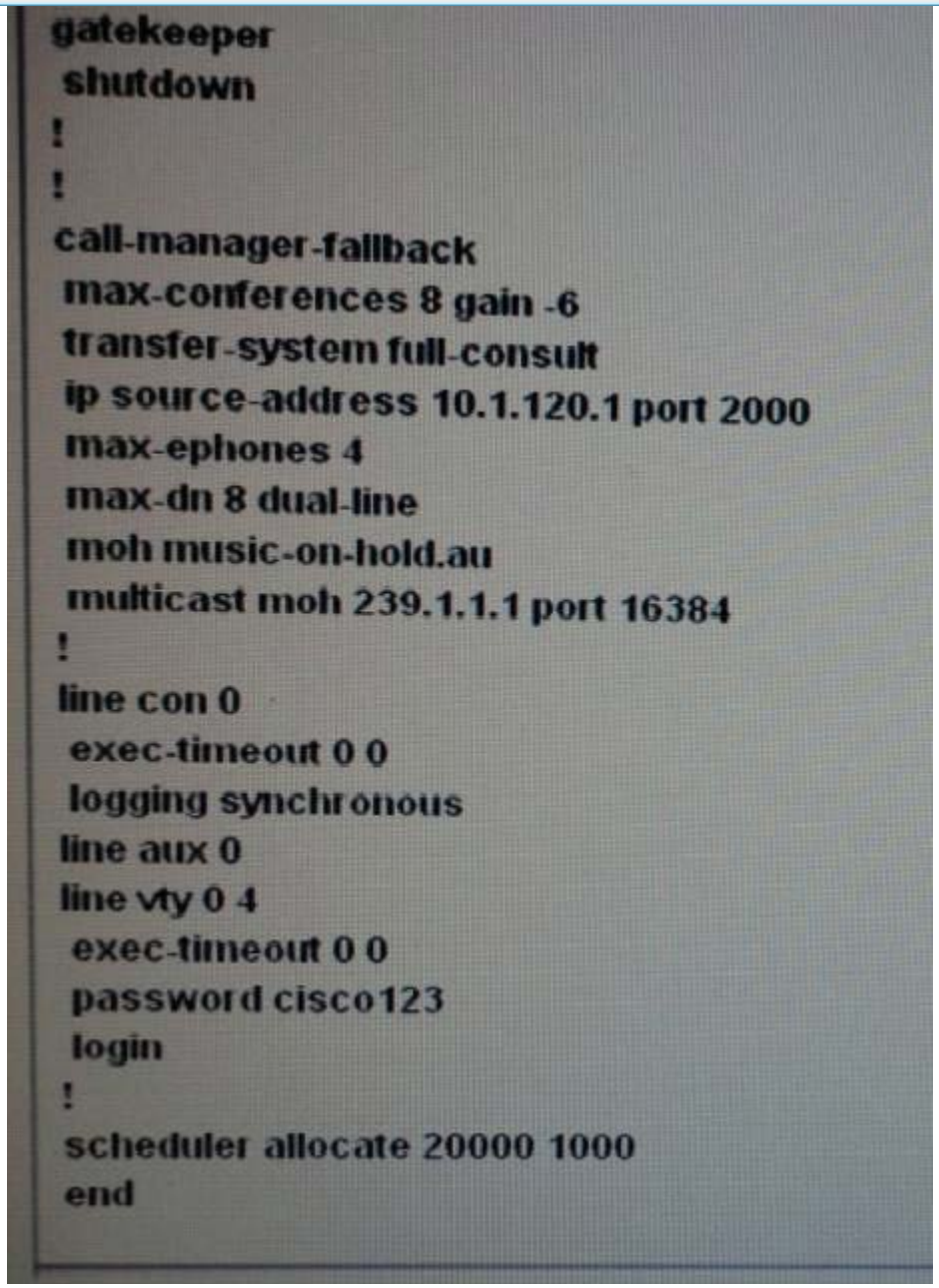


```
interface Vlan1
 no ip address
 shutdown
!
interface Vlan20
 ip address 10.1.20.1 255.255.255.0
!
interface Vlan120
 ip address 10.1.120.1 255.255.255.0
 ip helper-address 10.1.5.2
 h323-gateway voip bind srcaddr 10.1.120.1
!
router eigrp 10
 network 10.0.0.0
 no auto-summary
!
ip forward-protocol nd
!
!
no ip http server
!
!
!
!
control-plane
!
!
!
voice-port 0/0/0:23
translation-profile incoming pstn-in
translation-profile outgoing srst
```


voice-port 0/0/0:23
translation-profile incoming pstn-in
translation-profile outgoing srst
!
ccm-manager fax protocol cisco
!
mgcp fax t38 ecm
!
!
dial-peer voice 911 pots
destination-pattern 911
port 0/0/0:23
forward-digits all
!
dial-peer voice 9911 pots
destination-pattern 9911
port 0/0/0:23
forward-digits all
!
dial-peer voice 123 pots
incoming called-number .
direct-inward-dial
!
dial-peer voice 3000 voip
destination-pattern 3...
session target ipv4:10.1.5.10
dtmf-relay h245-alphanumeric
no vad
!
dial-peer voice 9011 pots
corlist outgoing intlPt



```
dial-peer voice 9011 pots
 corlist outgoing intlPt
 destination-pattern 9011T
 port 0/0/0:23
!
dial-peer voice 7 pots
 corlist outgoing localPt
 destination-pattern 9[2-9].....
 port 0/0/0:23
!
dial-peer voice 24000 pots
 destination-pattern [24]...
 port 0/0/0:23
!
!
dial-peer voice 11 pots
 corlist outgoing ldPt
 destination-pattern 91[2-9]..[2-9].....
 port 0/0/0:23
!
!
gateway
 timer receive-rtp 1200
!
!
gatekeeper
 shutdown
!
!
call-manager-fallback
 max-conferences 8 gain -6
```


gatekeeper
shutdown
!
!
call-manager-fallback
max-conferences 8 gain -6
transfer-system full-consult
ip source-address 10.1.120.1 port 2000
max-ephones 4
max-dn 8 dual-line
moh music-on-hold.au
multicast moh 239.1.1.1 port 16384
!
line con 0
exec-timeout 0 0
logging synchronous
line aux 0
line vty 0 4
exec-timeout 0 0
password cisco123
login
!
scheduler allocate 20000 1000
end

A. Multicast routing is not enabled on the BR1 router.
B. The command ip pim separate-dense-mode is missing from interface VLAN 120 at the SRST router in BR1.
C. The MOH server is unable to stream MOH using G.711 codec because of the regions configuration.
D. The command route 10.1.120.1 must be added to the multicast moh 239.1.1.1 port 16384 command at the SRST router in BR1.
E. The Max Hops is too small in the MOH configuration

**Answer: B**

Explanation:
- The router runs IP Multicast routing and IP PIM sparse-dense mode on any physical interface that must participate in multicast (PIM is in either sparse or dense mode, but the interface can be configured to forward sparse mode, dense mode, or both).
Reference:
http://www.cisco.com/en/US/technologies/tk436/tk428/technologies_white_paper0900aecd80131281_ns465_Networking_Solutions_White_Paper.html

## Question: 12

An IP phone that is connected through a Cisco Catalyst 3750 Series Switch is failing to register with the subscriber as a backup server. When the user presses the settings button on the phone, only the Cisco Unified Communications Manager publisher shows as registered. What is the most likely cause for this issue?

A. The phone does not have the correct Cisco Unified Communications Manager group in the device configuration page.
B. The Cisco Unified Communications Manager group that is applied through the device pool is misconfigured.
C. The ip-helper address command for the subscriber is not configured on the switch port.
D. The subscriber does not have the correct device pool configured.
E. The enterprise phone configuration does not have the call control redundancy enabled.

**Answer: B**

Explanation:
- Yes if The Cisco Unified Communications Manager group that is applied through the device pool is misconfigured then IP phone doesn't recognized the subscriber IP address.
Reference:
http://www.cisco.com/en/US/docs/voice_ip_comm/cucm/admin/7_0_1/ccmcfg/b02devpl.html

## Question: 13

Which step in the problem-solving model is important to accurately interview end users to get all the pertinent details of the problem?

A. Implement Action Plan
B. Define the Problem
C. Consider the Possibilities
D. Create Action Plan
E. Gather Facts
F. Observe Results
G. Restart Problem-Solving Process
H. Problem Resolved

**Answer: E**

Explanation:
Step 2 Gather the facts that you need to help isolate possible causes. Ask questions of affected users, network administrators, managers, and other key people. Collect information from sources such as network management systems, protocol analyzer traces, output from router diagnostic commands, or software release notes.
Reference:
http://www.cisco.com/en/US/docs/internetworking/troubleshooting/guide/tr1901.html

## Question: 14

Refer to the exhibit.

```
*Mar 24 16:17:54.190: ISDN Se0/0/0: 15 Q931: RX <- SETUP pd = 8 callref = 0x00AA
   Beaere Capability i = 0x8090A3
        Standard = CCITT
        Transfer Capability = Spee
        Transfer Mode = Circuit
        Transfer Rate = 64 kbit/s
   Channel ID i = 0xA98381
   Exclusive, Channel 1
   Progress Ind i = 0x8183 - Origination address is non-ISDN
   Calling Party Number i = 0x1180, '4940302156001'
   Plan:ISDN, Type:International
   Called Party Number i = 0x81, '2288223001'
   Plan:ISDN, Type:Unknown
   *Mar 24 16:17:54:210: ISDN Se0/0/0 15 Q931: TX-> RELEASE_COMP pd=8 callref=
   0x80AA
   Cause i = 0x8081 = Unallocated/unaligned number
```

The exhibit shows the output of debug isdn q931. An inbound PSTN call was received by a SIP gateway that is reachable via a SIP trunk that is configured in Cisco Unified Communications Manager. The call failed to ring extension 3001. If the phone at extension 3001 is registered and reachable through the gateway inbound CSS, which three actions can resolve this issue? (Choose three.)

A. Change the significant digits for inbound calls to 4 on the SIP trunk configuration in Cisco Unified Communications Manager.
B. Configure the digit strip 4 on the SIP trunk under Incoming Called Party Settings in Cisco Unified Communications Manager.
C. Configure a translation pattern in Cisco Unified Communications Manager that can be accessed by the trunk CSS to truncate the called number to four digits.
D. Configure a called-party transformation CSS on the gateway in Cisco Unified Communications Manager that includes a pattern that transforms the number from ten digits to four digits.
E. Configure a voice translation profile in the SIP Cisco IOS gateway with a voice translation rule that truncates the number from ten digits to four digits.
F. Configure the Cisco IOS command num-exp 2288223001 3001 on the gateway ISDN interface.

**Answer: A, C, E**

## Question: 15

Which of these is used by the Cisco IP phone to relay to the switch the information regarding how much power is needed?

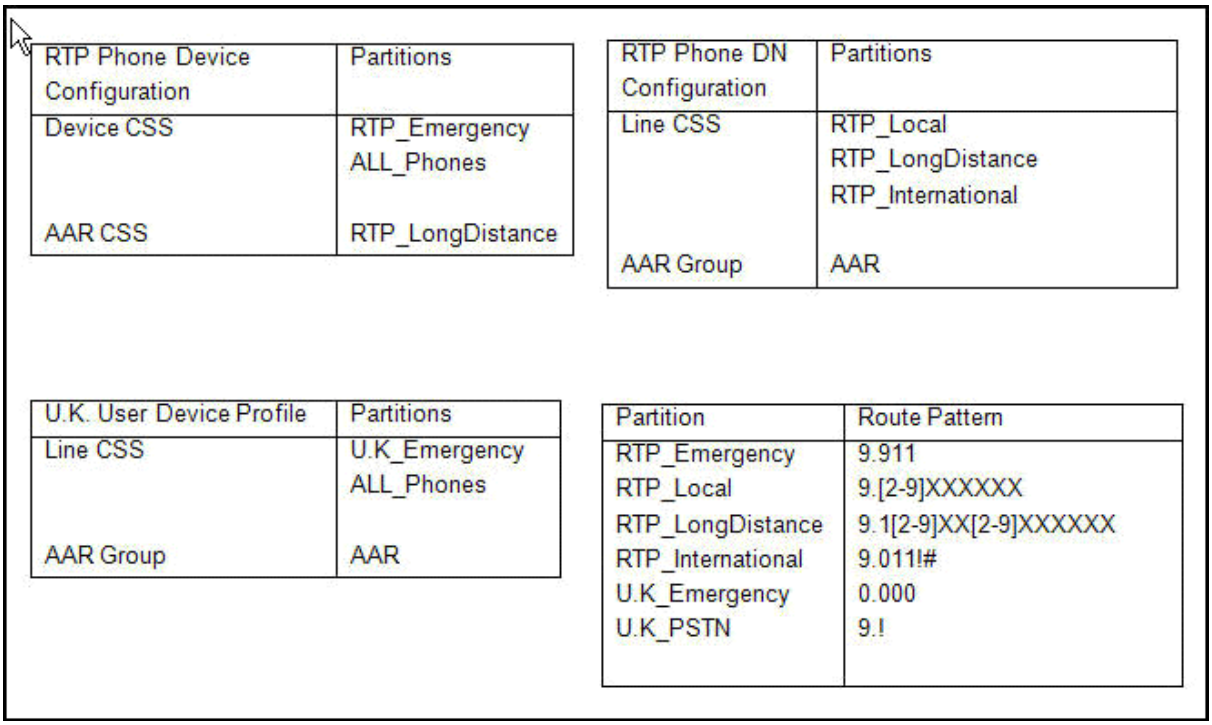
A. the Cisco Discovery Protocol
B. IEEE 802.10 protocol
C. Cisco IP phones always use a fixed power consumption hased on the resistor, which is specific to the model
D. The switch model determines how much power is consumed by the different phone models

**Answer: A**

Explanation:
- if CDP is enabled on the switch, 15.4W is initially allocated, and then further refined when the CDP message is received from the PD
Reference:
http://www.cisco.com/en/US/products/hw/phones/ps379/products_qanda_item09186a00808996f3.shtml

## Question: 16

Refer to the exhibit.



| RTP Phone Device Configuration | Partitions |
|---|---|
| Device CSS | RTP_Emergency<br>ALL_Phones |
| AAR CSS | RTP_LongDistance |

| RTP Phone DN Configuration | Partitions |
|---|---|
| Line CSS | RTP_Local<br>RTP_LongDistance<br>RTP_International |
| AAR Group | AAR |

| U.K. User Device Profile | Partitions |
|---|---|
| Line CSS | U.K_Emergency<br>ALL_Phones |
| AAR Group | AAR |

| Partition | Route Pattern |
|---|---|
| RTP_Emergency | 9.911 |
| RTP_Local | 9.[2-9]XXXXXX |
| RTP_LongDistance | 9.1[2-9]XX[2-9]XXXXXX |
| RTP_International | 9.011!# |
| U.K_Emergency | 0.000 |
| U.K_PSTN | 9.! |

Assume a centralized Cisco Unified Communications Manager topology with the headquarters at RTP and remote located at the U.K. All route patterns are assigned a route list that contains a route group pointing to the local gateway. RTP route patterns use the RTP gateway, and U.K. route patterns use the U.K. gateway. When a U.K. user logs into an RTP phone using the Cisco Extension Mobility feature and places an emergency call to 0000, which statement about the emergency call is true?

A. The call will match the U.K_Emergency route pattern partition and will egress at the RTP gateway.
B. The call will match the U.K_Emergency route pattern partition and will egress at the U.K. gateway.
C. The call will match the RTP_Emergency route pattern partition and will egress at the RTP gateway.
D. The call will match the RTP_Emergency route pattern partition and will egress at the U.K. gateway.
E. The call will fail.

**Answer: B**

## Question: 17

Which issue would cause an MGCP gateway to fail to register with Cisco Unified Communications Manager?

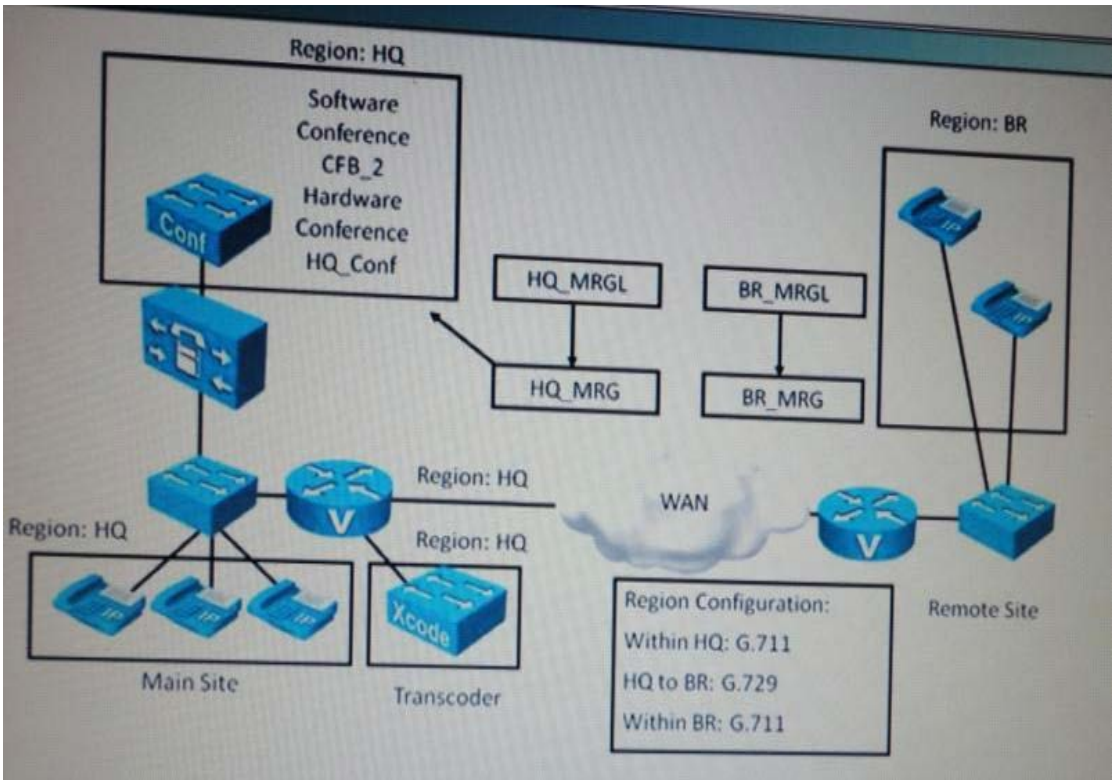
A. missing the configuration command isdn bind-13 ccm-manager under the ISDN interface
B. mismatched domain name on the MGCP gateway and Cisco Unified Communications Manager gateway configuration
C. misconfigured route group in Cisco Unified Communications Manager
D. incorrect MGCP IP address specified in the gateway configuration in Cisco Unified Communications Manager

**Answer: B**

Explanation:
- This problem is a domain name issue. If a domain name is configured on the MGCP gateway, the domain name for the gateway configuration on Cisco CallManager must be the same.
Reference:
http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_tech_note09186a00805a316c.shtml

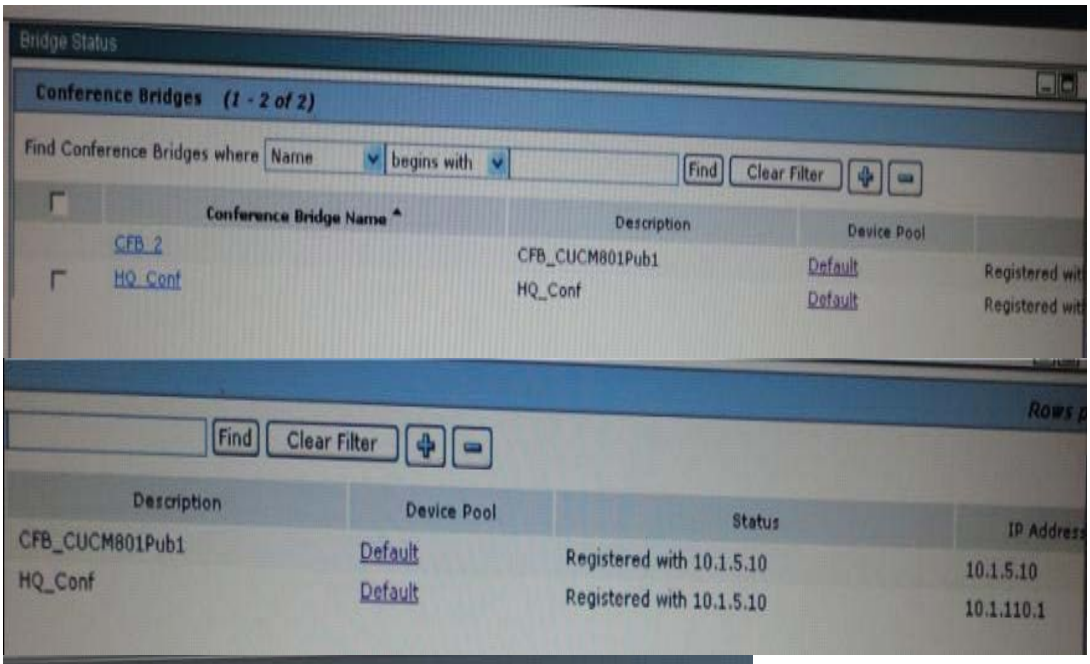
## Question: 18

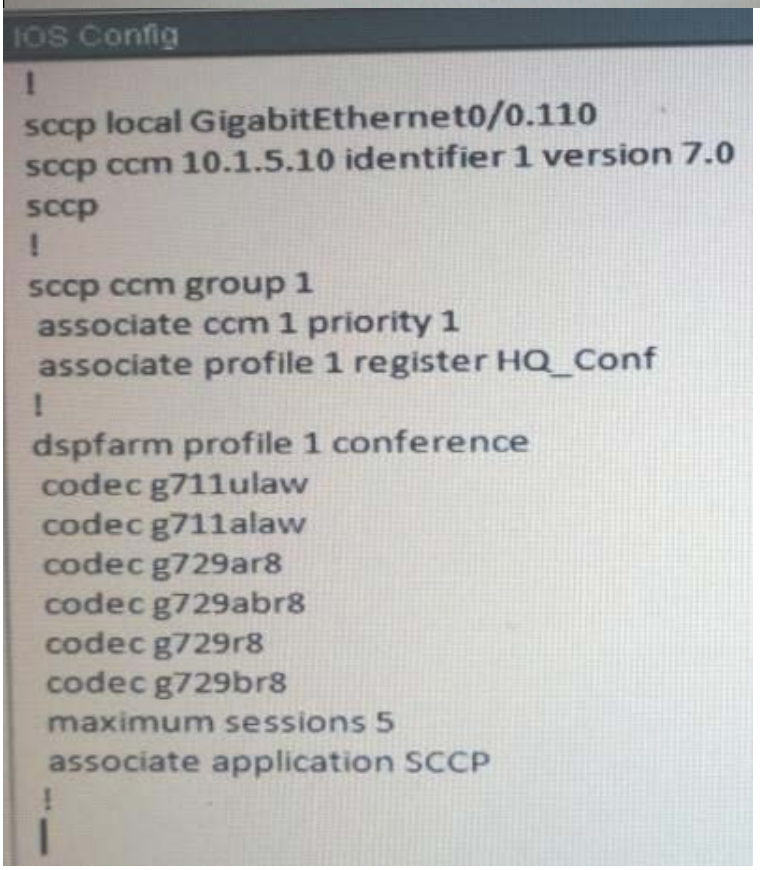
Refer to the exhibits.

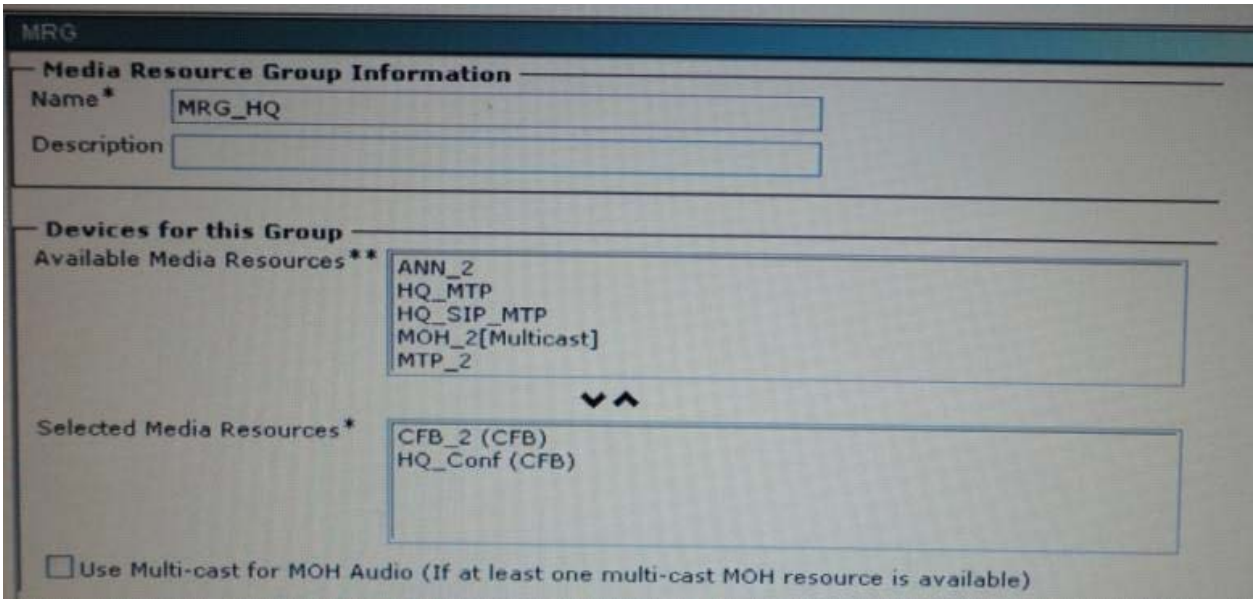



The HG_MRG that is shown in the exhibit is assigned to an MRGL, which is configured at the HQ phones. A call exists between two HQ phones that use G.711 codec. When one of the HQ users attempts to conference a BR phone across the WAN, the conference fails. The SDI trace shows an error "No transcoder device configured."

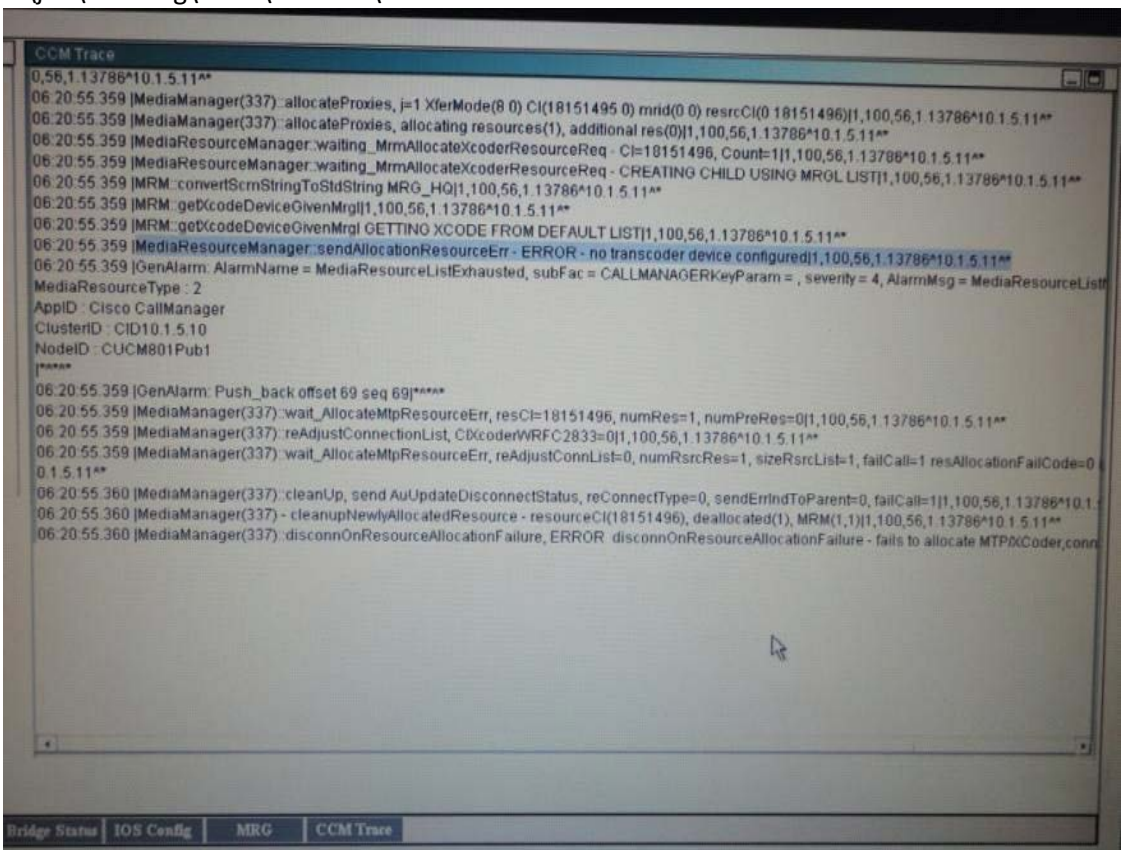
Which statement indicates the correct resolution or reason for the issue?


Bridge Status
Conference Bridges (1 - 2 of 2)
Find Conference Bridges where Name begins with Find Clear Filter
Conference Bridge Name
Description
Device Pool
CFB_2
CFB_CUCM801Pub1
Default
HQ_Conf
HQ_Conf
Default
Find Clear Filter
Description
Device Pool
Status
IP Address
CFB_CUCM801Pub1
Default
Registered with 10.1.5.10
10.1.5.10
HQ_Conf
Default
Registered with 10.1.5.10
10.1.110.1


IOS Config
!
sccp local GigabitEthernet0/0.110
sccp ccm 10.1.5.10 identifier 1 version 7.0
sccp
!
sccp ccm group 1
associate ccm 1 priority 1
associate profile 1 register HQ_Conf
!
dspfarm profile 1 conference
codec g711ulaw
codec g711alaw
codec g729ar8
codec g729abr8
codec g729r8
codec g729br8
maximum sessions 5
associate application SCCP
!


MRG
Media Resource Group Information
Name*
MRG_HQ
Description
Devices for this Group
Available Media Resources**
ANN_2
HQ_MTP
HQ_SIP_MTP
MOH_2[Multicast]
MTP_2
Selected Media Resources*
CFB_2 (CFB)
HQ_Conf (CFB)
Use Multi-cast for MOH Audio (If at least one multi-cast MOH resource is available)

D:\job\TestKing\Cisco\642-427\HYPERLINK



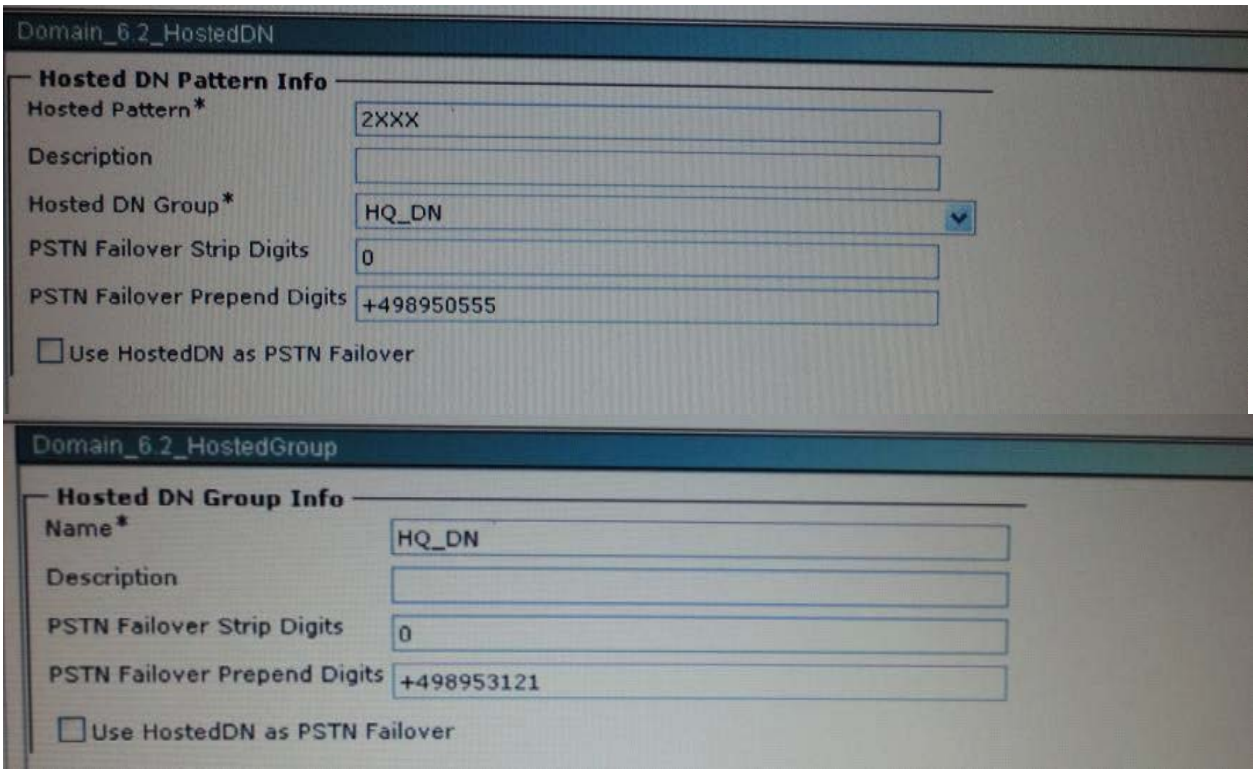

A. The BR phone does not have access to the HO_Conf bridge
B. The BR phone does not have access to the CFB_2 bridge
C. The BR phone does not have access to a transcoder
D. The CFB_2 bridge should be removed from the HQ_MRG and assigned to an MRG that is not assigned to an MRGL
E. The CFB_2 bridge should be listed last in the HO_MRG

**Answer: E**

Explanation:
In the group MRG_HQ are two conference system in the following sequence is entered:
1. Software = CFB_2
2. Hardware = HQ_Conf
It is as always the first group CFB_2 used. But as they only support G711 calls the call will fail. Only the conference originator need access to the transcoder
See TVOICE V 2 6-71

## Question: 19

Refer to the exhibits.




When a remote Cisco Unified Communications Manager learns the advertised patterns that are shown in the exhibit, which patterns would be shown in the Cisco Unified Communications Manager RTMT tool?

A. 2XXX and the ToDiD will be 0:+498950555
B. 2XXX and the ToDiD will be 0+498953121
C. +4989505552XXX and the ToDiD will be 0:
D. +498953121 2XXX and the ToDiD will be 0:
E. Both +4989505552XXX and +4989531 21 2XXX will be advertised with ToDID of 0:

**Answer: A**

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